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NAVFAC
Naval Facilities Engineering Command

Groundwater Sample Results, Combined Level 2 and Level 4 Laboratory Report, and the Sample Location Report, SDG 32826

Naval Air Station Corpus Christi
Corpus Christi, Texas

July 2019

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N00216_000610
NAS CORPUS CHRISTI, TX
SSIC 5000-33c

LABORATORY DATA PACKAGE FA32826 NAS CORPUS CHRISTI TX

04/22/2016
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Automated Report

Technical Report for

Resolution Consultants

PFC GW Investigation, NAS Corpus Christi, TX SWMU4

0888817518

SGS Accutest Job Number: FA32826

Sampling Dates: 03/28/16 - 03/31/16



Report to:

Resolution Consultants
5724 Summer Trees Dr
Memphis, TN 38134

ATTN: Claire Barnett

Total number of pages in report: 472

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Sample Summary

Resolution Consultants

Job No: FA32826

PFC GW Investigation, NAS Corpus Christi, TX SWMU4
Project No: 0888817518

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA32826-1	03/28/16	18:00	EB	04/01/16	AQ	Ground Water	R-3-0316
FA32826-2	03/28/16	18:45	EB	04/01/16	AQ	Ground Water	R-4-0316
FA32826-3	03/29/16	15:00	EB	04/01/16	AQ	Ground Water	TB1-0316
FA32826-4	03/30/16	09:29	EB	04/01/16	AQ	Ground Water	ES-46-0316
FA32826-4D	03/30/16	09:29	EB	04/01/16	AQ	Water Dup/MSD	ES-46-0316
FA32826-4S	03/30/16	09:29	EB	04/01/16	AQ	Water Matrix Spike	ES-46-0316
FA32826-5	03/30/16	10:20	EB	04/01/16	AQ	Ground Water	ES-47-0316
FA32826-6	03/30/16	10:20	EB	04/01/16	AQ	Ground Water	DUP-0316
FA32826-7	03/30/16	11:09	EB	04/01/16	AQ	Ground Water	MCC-15-0316
FA32826-8	03/30/16	12:37	EB	04/01/16	AQ	Ground Water	MCC-12-0316
FA32826-9	03/30/16	15:33	EB	04/01/16	AQ	Ground Water	R-6-0316
FA32826-10	03/30/16	11:25	EB	04/01/16	AQ	Field Blank Water	FB1-0316
FA32826-11	03/31/16	11:33	EB	04/01/16	AQ	Ground Water	R-5-0316

Sample Summary
(continued)

Resolution Consultants

Job No: FA32826

PFC GW Investigation, NAS Corpus Christi, TX SWMU4
Project No: 0888817518

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA32826-12	03/31/16	11:35	EB	04/01/16	AQ	Equipment Blank	EB1-0316
FA32826-13	03/30/16	16:50	EB	04/01/16	AQ	Ground Water	ES-36R-0316

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Resolution Consultants **Job No:** FA32826

Site: PFC GW Investigation, NAS Corpus Christi, TX SWMU4 **Report Date:** 4/19/2016 6:08:50 PM

12 Sample(s), 1 Field Blank(s) were collected on/between 03/28/2016 and 03/31/2016 and were received at SGS Accutest Southeast (SASE) on 04/01/2016 properly preserved, at 3 Deg. C and intact. These Samples received an SASE job number of FA32826. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP59984

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA32826-4MS, FA32826-4MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluoropentanoic acid, Perfluorohexanoic acid, Perfluoroheptanoic acid, Perfluorooctanoic acid, Perfluorobutanesulfonic acid, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

Matrix Spike Duplicate Recovery(s) for Perfluoropentanoic acid, Perfluorohexanoic acid, Perfluoroheptanoic acid, Perfluorooctanoic acid, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorononanoic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Perfluorodecanoic acid, Perfluoroundecanoic acid, Perfluorododecanoic acid, Perfluorotridecanoic acid, Perfluorotetradecanoic acid, Perfluorodecanesulfonic acid, PFOSA are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Samples FA32826-4, FA32826-5, FA32826-6, FA32826-7, FA32826-10, FA32826-11, OP59984-MS and MSD, FA32826-8, OP59984-MB, have surrogates outside control limits.

OP59984-MB for 13C2-PFHxA: Outside control limits.

OP59984-MS and MSD for 13C2-PFHxA: Outside control limits due to dilution.

OP59984-MS and MSD for 13C2-PFDA: Outside control limits due to dilution.

FA32826-1 for PFOSA: Associated BS recovery outside control limits.

FA32826-2 for PFOSA: Associated BS recovery outside control limits.

FA32826-3 for PFOSA: Associated BS recovery outside control limits.

FA32826-4 for PFOSA: Associated BS recovery outside control limits.

FA32826-4 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-4 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-4 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-4 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-5 for PFOSA: Associated BS recovery outside control limits.

FA32826-5 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-5 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-5 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-5 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-6 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-6 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-6 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-6 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-6 for PFOSA: Associated BS recovery outside control limits.

FA32826-7 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-7 for PFOSA: Associated BS recovery outside control limits.

FA32826-7 for 13C2-PFHxA: Outside control limits due to dilution.

Extractables by GCMS By Method EPA 537 MOD

Matrix: AQ **Batch ID:** OP59984

FA32826-8 for 13C2-PFHxA: Outside control limits due to matrix interference.

FA32826-8: Dilution required due to matrix interference.

FA32826-8 for PFOSA: Associated BS recovery outside control limits.

FA32826-9 for PFOSA: Associated BS recovery outside control limits.

FA32826-10: Confirmed by re-extraction and reanalysis.

FA32826-10 for 13C2-PFDA: Outside control limits.

FA32826-10 for PFOSA: Associated BS recovery outside control limits.

FA32826-11 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-11 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-11 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-11 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-13 for PFOSA: Associated BS recovery outside control limits.

FA32826-12 for PFOSA: Associated BS recovery outside control limits.

FA32826-11 for 13C2-PFHxA: Outside control limits due to dilution.

FA32826-11 for 13C2-PFDA: Outside control limits due to dilution.

FA32826-11 for PFOSA: Associated BS recovery outside control limits.

Matrix: AQ **Batch ID:** OP60102

FA32826-10: Confirmation run for surrogate recoveries.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____

Kim Benham, Client Services (signature on file)

Date: April 19, 2016

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA32826-1	MSSEMI	Q20314.D	Perfluorohexanesulfonic acid, Perfluorooctanoic acid
FA32826-1	MSSEMI	Q20358.D	Perfluorooctanesulfonic acid
FA32826-10	MSSEMI	Q20334.D	Perfluorohexanesulfonic acid
FA32826-11	MSSEMI	Q20335.D	Perfluoroheptanoic acid, Perfluorooctanesulfonic acid
FA32826-11	MSSEMI	Q20336.D	Perfluorohexanesulfonic acid
FA32826-11	MSSEMI	Q20361.D	Perfluorooctanoic acid
FA32826-13	MSSEMI	Q20338.D	Perfluoroheptanoic acid, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA32826-2	MSSEMI	Q20315.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA32826-4	MSSEMI	Q20359.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA32826-5	MSSEMI	Q20324.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA32826-6	MSSEMI	Q20326.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA32826-7	MSSEMI	Q20328.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA32826-8	MSSEMI	Q20360.D	Perfluorooctanesulfonic acid, Perfluorooctanoic acid
FA32826-9	MSSEMI	Q20332.D	Perfluorooctanoic acid
FA32826-9	MSSEMI	Q20362.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid
OP59984-MS	MSSEMI	Q20321.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid
OP59984-MSD	MSSEMI	Q20322.D	Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid, Perfluorooctanoic acid

17 Manual Integrations were found for FA32826

Summary of Hits

Job Number: FA32826
Account: Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4
Collected: 03/28/16 thru 03/31/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
FA32826-1	**R-3-0316**					
Perfluoropentanoic acid		0.0341 J	0.038	0.015	ug/l	EPA 537 MOD
Perfluorohexanoic acid		0.172	0.038	0.015	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		0.0561	0.038	0.015	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.720	0.038	0.015	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0880	0.038	0.015	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.335	0.038	0.015	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.846	0.096	0.038	ug/l	EPA 537 MOD
FA32826-2	**R-4-0316**					
Perfluoropentanoic acid		0.0265 J	0.038	0.015	ug/l	EPA 537 MOD
Perfluorohexanoic acid		0.0947	0.038	0.015	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		0.0271 J	0.038	0.015	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.225	0.038	0.015	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0290 J	0.038	0.015	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.218	0.038	0.015	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.526	0.038	0.015	ug/l	EPA 537 MOD
FA32826-3	**TB1-0316**					
No hits reported in this sample.						
FA32826-4	**ES-46-0316**					
Perfluoropentanoic acid		4.98	4.2	1.7	ug/l	EPA 537 MOD
Perfluorohexanoic acid		52.8	4.2	1.7	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		20.4	4.2	1.7	ug/l	EPA 537 MOD
Perfluorooctanoic acid		355	21	8.3	ug/l	EPA 537 MOD
Perfluorononanoic acid		2.97 J	4.2	1.7	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		3.80 J	4.2	1.7	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		185	21	8.3	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		155	21	8.3	ug/l	EPA 537 MOD
FA32826-5	**ES-47-0316**					
Perfluoropentanoic acid		9.09	4.0	1.6	ug/l	EPA 537 MOD
Perfluorohexanoic acid		46.9	4.0	1.6	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		15.3	4.0	1.6	ug/l	EPA 537 MOD
Perfluorooctanoic acid		151	10	4.0	ug/l	EPA 537 MOD
Perfluorononanoic acid		1.60 J	4.0	1.6	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		5.17	4.0	1.6	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		116	10	4.0	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		92.5	10	4.0	ug/l	EPA 537 MOD

Summary of Hits

Job Number: FA32826
Account: Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4
Collected: 03/28/16 thru 03/31/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
FA32826-6	**DUP-0316**					
Perfluoropentanoic acid		8.05	3.8	1.5	ug/l	EPA 537 MOD
Perfluorohexanoic acid		45.6	3.8	1.5	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		14.9	3.8	1.5	ug/l	EPA 537 MOD
Perfluorooctanoic acid		140	9.6	3.8	ug/l	EPA 537 MOD
Perfluorononanoic acid		1.65 J	3.8	1.5	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		4.76	3.8	1.5	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		97.1	9.6	3.8	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		89.0	9.6	3.8	ug/l	EPA 537 MOD
FA32826-7	**MCC-15-0316**					
Perfluoropentanoic acid		1.49	0.19	0.077	ug/l	EPA 537 MOD
Perfluorohexanoic acid		5.07	0.96	0.38	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		6.49	0.96	0.38	ug/l	EPA 537 MOD
Perfluorooctanoic acid		6.40	0.96	0.38	ug/l	EPA 537 MOD
Perfluorononanoic acid		0.219	0.19	0.077	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.583	0.19	0.077	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		13.7	0.96	0.38	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		5.13	0.96	0.38	ug/l	EPA 537 MOD
FA32826-8	**MCC-12-0316**					
Perfluoropentanoic acid [a]		0.217	0.10	0.040	ug/l	EPA 537 MOD
Perfluorohexanoic acid [a]		0.146	0.10	0.040	ug/l	EPA 537 MOD
Perfluorooctanoic acid [a]		0.456	0.10	0.040	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid [a]		0.196	0.10	0.040	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid [a]		0.256	0.10	0.040	ug/l	EPA 537 MOD
FA32826-9	**R-6-0316**					
Perfluoropentanoic acid		0.374	0.020	0.0080	ug/l	EPA 537 MOD
Perfluorohexanoic acid		0.557	0.20	0.080	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		0.383	0.020	0.0080	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.856	0.20	0.080	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0525	0.020	0.0080	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.370	0.020	0.0080	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.217	0.020	0.0080	ug/l	EPA 537 MOD
FA32826-10	**FB1-0316**					
Perfluorohexanoic acid [b]		0.0406	0.019	0.0077	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid [b]		0.0117 J	0.019	0.0077	ug/l	EPA 537 MOD

Summary of Hits

Job Number: FA32826
Account: Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4
Collected: 03/28/16 thru 03/31/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	MQL	SDL	Units	Method
Perfluorohexanesulfonic acid [b]		0.0247	0.019	0.0077	ug/l	EPA 537 MOD
FA32826-11	**R-5-0316**					
Perfluoropentanoic acid		12.2	3.8	1.5	ug/l	EPA 537 MOD
Perfluorohexanoic acid		73.5	3.8	1.5	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		23.3	3.8	1.5	ug/l	EPA 537 MOD
Perfluorooctanoic acid		358	19	7.7	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		12.1	3.8	1.5	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		133	9.6	3.8	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		32.0	3.8	1.5	ug/l	EPA 537 MOD
FA32826-12	**EB1-0316**					
No hits reported in this sample.						
FA32826-13	**ES-36R-0316**					
Perfluoropentanoic acid		0.0470	0.042	0.017	ug/l	EPA 537 MOD
Perfluorohexanoic acid		0.0513	0.042	0.017	ug/l	EPA 537 MOD
Perfluoroheptanoic acid		0.0186 J	0.042	0.017	ug/l	EPA 537 MOD
Perfluorooctanoic acid		0.366	0.042	0.017	ug/l	EPA 537 MOD
Perfluorobutanesulfonic acid		0.0586	0.042	0.017	ug/l	EPA 537 MOD
Perfluorohexanesulfonic acid		0.206	0.042	0.017	ug/l	EPA 537 MOD
Perfluorooctanesulfonic acid		0.516	0.042	0.017	ug/l	EPA 537 MOD

(a) Dilution required due to matrix interference.
(b) Confirmed by re-extraction and reanalysis.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	R-3-0316
Lab Sample ID:	FA32826-1
Matrix:	AQ - Ground Water
Method:	EPA 537 MOD EPA 537 MOD
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4
Date Sampled:	03/28/16
Date Received:	04/01/16
Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20314.D	2	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2	Q20358.D	5	04/14/16	NAF	04/06/16	OP59984	SQ609

	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.015 U	0.038	0.015	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0341	0.038	0.015	ug/l	J
307-24-4	Perfluorohexanoic acid	0.172	0.038	0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0561	0.038	0.015	ug/l	
335-67-1	Perfluorooctanoic acid	0.720	0.038	0.015	ug/l	
375-95-1	Perfluorononanoic acid	0.015 U	0.038	0.015	ug/l	
335-76-2	Perfluorodecanoic acid	0.015 U	0.038	0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.015 U	0.038	0.015	ug/l	
307-55-1	Perfluorododecanoic acid	0.015 U	0.038	0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.015 U	0.038	0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.015 U	0.038	0.015	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.0880	0.038	0.015	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.335	0.038	0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.846 [a]	0.096	0.038	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.015 U	0.038	0.015	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [b]	0.015 U	0.038	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	76%	89%	70-130%
	13C2-PFDA	115%	86%	70-130%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	R-4-0316		
Lab Sample ID:	FA32826-2	**Date Sampled:**	03/28/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20315.D	2	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2							

	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.015 U	0.038	0.015	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0265	0.038	0.015	ug/l	J
307-24-4	Perfluorohexanoic acid	0.0947	0.038	0.015	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0271	0.038	0.015	ug/l	J
335-67-1	Perfluorooctanoic acid	0.225	0.038	0.015	ug/l	
375-95-1	Perfluorononanoic acid	0.015 U	0.038	0.015	ug/l	
335-76-2	Perfluorodecanoic acid	0.015 U	0.038	0.015	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.015 U	0.038	0.015	ug/l	
307-55-1	Perfluorododecanoic acid	0.015 U	0.038	0.015	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.015 U	0.038	0.015	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.015 U	0.038	0.015	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.0290	0.038	0.015	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.218	0.038	0.015	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.526	0.038	0.015	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.015 U	0.038	0.015	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [a]	0.015 U	0.038	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	91%		70-130%
	13C2-PFDA	77%		70-130%

(a) Associated BS recovery outside control limits.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	TB1-0316		
Lab Sample ID:	FA32826-3	**Date Sampled:**	03/29/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20316.D	1	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0083 U	0.021	0.0083	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0083 U	0.021	0.0083	ug/l	
307-24-4	Perfluorohexanoic acid	0.0083 U	0.021	0.0083	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0083 U	0.021	0.0083	ug/l	
335-67-1	Perfluorooctanoic acid	0.0083 U	0.021	0.0083	ug/l	
375-95-1	Perfluorononanoic acid	0.0083 U	0.021	0.0083	ug/l	
335-76-2	Perfluorodecanoic acid	0.0083 U	0.021	0.0083	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0083 U	0.021	0.0083	ug/l	
307-55-1	Perfluorododecanoic acid	0.0083 U	0.021	0.0083	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.0083 U	0.021	0.0083	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.0083 U	0.021	0.0083	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.0083 U	0.021	0.0083	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0083 U	0.021	0.0083	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0083 U	0.021	0.0083	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.0083 U	0.021	0.0083	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [a]	0.0083 U	0.021	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	112%		70-130%
	13C2-PFDA	74%		70-130%

(a) Associated BS recovery outside control limits.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	ES-46-0316		
Lab Sample ID:	FA32826-4	**Date Sampled:**	03/30/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20317.D	200	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2	Q20359.D	1000	04/14/16	NAF	04/06/16	OP59984	SQ609

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2	120 ml	1.0 ml

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	1.7 U	4.2	1.7	ug/l	
2706-90-3	Perfluoropentanoic acid	4.98	4.2	1.7	ug/l	
307-24-4	Perfluorohexanoic acid	52.8	4.2	1.7	ug/l	
375-85-9	Perfluoroheptanoic acid	20.4	4.2	1.7	ug/l	
335-67-1	Perfluorooctanoic acid	355 [a]	21	8.3	ug/l	
375-95-1	Perfluorononanoic acid	2.97	4.2	1.7	ug/l	J
335-76-2	Perfluorodecanoic acid	1.7 U	4.2	1.7	ug/l	
2058-94-8	Perfluoroundecanoic acid	1.7 U	4.2	1.7	ug/l	
307-55-1	Perfluorododecanoic acid	1.7 U	4.2	1.7	ug/l	
72629-94-8	Perfluorotridecanoic acid	1.7 U	4.2	1.7	ug/l	
376-06-7	Perfluorotetradecanoic acid	1.7 U	4.2	1.7	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	3.80	4.2	1.7	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	185 [a]	21	8.3	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	155 [a]	21	8.3	ug/l	
335-77-3	Perfluorodecanesulfonic acid	1.7 U	4.2	1.7	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [b]	1.7 U	4.2	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	0% [c]	0% [c]	70-130%
	13C2-PFDA	0% [c]	0% [c]	70-130%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.
(c) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	ES-47-0316		
Lab Sample ID:	FA32826-5	**Date Sampled:**	03/30/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20323.D	200	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2	Q20324.D	500	04/13/16	NAF	04/06/16	OP59984	SQ608

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	1.6 U	4.0	1.6	ug/l	
2706-90-3	Perfluoropentanoic acid	9.09	4.0	1.6	ug/l	
307-24-4	Perfluorohexanoic acid	46.9	4.0	1.6	ug/l	
375-85-9	Perfluoroheptanoic acid	15.3	4.0	1.6	ug/l	
335-67-1	Perfluorooctanoic acid	151 [a]	10	4.0	ug/l	
375-95-1	Perfluorononanoic acid	1.60	4.0	1.6	ug/l	J
335-76-2	Perfluorodecanoic acid	1.6 U	4.0	1.6	ug/l	
2058-94-8	Perfluoroundecanoic acid	1.6 U	4.0	1.6	ug/l	
307-55-1	Perfluorododecanoic acid	1.6 U	4.0	1.6	ug/l	
72629-94-8	Perfluorotridecanoic acid	1.6 U	4.0	1.6	ug/l	
376-06-7	Perfluorotetradecanoic acid	1.6 U	4.0	1.6	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	5.17	4.0	1.6	ug/l	
355-46-4	Perfluorohexanesulfonic acid	116 [a]	10	4.0	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	92.5 [a]	10	4.0	ug/l	
335-77-3	Perfluorodecanesulfonic acid	1.6 U	4.0	1.6	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [b]	1.6 U	4.0	1.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	0% [c]	0% [c]	70-130%
	13C2-PFDA	0% [c]	0% [c]	70-130%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.
(c) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	DUP-0316		
Lab Sample ID:	FA32826-6	**Date Sampled:**	03/30/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20325.D	200	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2	Q20326.D	500	04/13/16	NAF	04/06/16	OP59984	SQ608

	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	1.5 U	3.8	1.5	ug/l	
2706-90-3	Perfluoropentanoic acid	8.05	3.8	1.5	ug/l	
307-24-4	Perfluorohexanoic acid	45.6	3.8	1.5	ug/l	
375-85-9	Perfluoroheptanoic acid	14.9	3.8	1.5	ug/l	
335-67-1	Perfluorooctanoic acid	140 [a]	9.6	3.8	ug/l	
375-95-1	Perfluorononanoic acid	1.65	3.8	1.5	ug/l	J
335-76-2	Perfluorodecanoic acid	1.5 U	3.8	1.5	ug/l	
2058-94-8	Perfluoroundecanoic acid	1.5 U	3.8	1.5	ug/l	
307-55-1	Perfluorododecanoic acid	1.5 U	3.8	1.5	ug/l	
72629-94-8	Perfluorotridecanoic acid	1.5 U	3.8	1.5	ug/l	
376-06-7	Perfluorotetradecanoic acid	1.5 U	3.8	1.5	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	4.76	3.8	1.5	ug/l	
355-46-4	Perfluorohexanesulfonic acid	97.1 [a]	9.6	3.8	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	89.0 [a]	9.6	3.8	ug/l	
335-77-3	Perfluorodecanesulfonic acid	1.5 U	3.8	1.5	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [b]	1.5 U	3.8	1.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	0% [c]	0% [c]	70-130%
	13C2-PFDA	0% [c]	0% [c]	70-130%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.
(c) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	MCC-15-0316		
Lab Sample ID:	FA32826-7	**Date Sampled:**	03/30/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20327.D	10	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2	Q20328.D	50	04/13/16	NAF	04/06/16	OP59984	SQ608

	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.077 U	0.19	0.077	ug/l	
2706-90-3	Perfluoropentanoic acid	1.49	0.19	0.077	ug/l	
307-24-4	Perfluorohexanoic acid	5.07 [a]	0.96	0.38	ug/l	
375-85-9	Perfluoroheptanoic acid	6.49 [a]	0.96	0.38	ug/l	
335-67-1	Perfluorooctanoic acid	6.40 [a]	0.96	0.38	ug/l	
375-95-1	Perfluorononanoic acid	0.219	0.19	0.077	ug/l	
335-76-2	Perfluorodecanoic acid	0.077 U	0.19	0.077	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.077 U	0.19	0.077	ug/l	
307-55-1	Perfluorododecanoic acid	0.077 U	0.19	0.077	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.077 U	0.19	0.077	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.077 U	0.19	0.077	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.583	0.19	0.077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	13.7 [a]	0.96	0.38	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	5.13 [a]	0.96	0.38	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.077 U	0.19	0.077	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [b]	0.077 U	0.19	0.077	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	84%	0% [c]	70-130%
	13C2-PFDA	85%	0% [c]	70-130%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.
(c) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	MCC-12-0316		
Lab Sample ID:	FA32826-8	**Date Sampled:**	03/30/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20360.D	5	04/14/16	NAF	04/06/16	OP59984	SQ609
Run #2							

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2		

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.040 U	0.10	0.040	ug/l	
2706-90-3	Perfluoropentanoic acid	0.217	0.10	0.040	ug/l	
307-24-4	Perfluorohexanoic acid	0.146	0.10	0.040	ug/l	
375-85-9	Perfluoroheptanoic acid	0.040 U	0.10	0.040	ug/l	
335-67-1	Perfluorooctanoic acid	0.456	0.10	0.040	ug/l	
375-95-1	Perfluorononanoic acid	0.040 U	0.10	0.040	ug/l	
335-76-2	Perfluorodecanoic acid	0.040 U	0.10	0.040	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.040 U	0.10	0.040	ug/l	
307-55-1	Perfluorododecanoic acid	0.040 U	0.10	0.040	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.040 U	0.10	0.040	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.040 U	0.10	0.040	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.040 U	0.10	0.040	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.196	0.10	0.040	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.256	0.10	0.040	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.040 U	0.10	0.040	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [b]	0.040 U	0.10	0.040	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	67% [c]		70-130%
	13C2-PFDA	85%		70-130%

(a) Dilution required due to matrix interference.
(b) Associated BS recovery outside control limits.
(c) Outside control limits due to matrix interference.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	R-6-0316		
Lab Sample ID:	FA32826-9	**Date Sampled:**	03/30/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20362.D	1	04/14/16	NAF	04/06/16	OP59984	SQ609
Run #2	Q20332.D	10	04/13/16	NAF	04/06/16	OP59984	SQ608

	Initial Volume	Final Volume
Run #1	125 ml	1.0 ml
Run #2	125 ml	1.0 ml

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0080 U	0.020	0.0080	ug/l	
2706-90-3	Perfluoropentanoic acid	0.374	0.020	0.0080	ug/l	
307-24-4	Perfluorohexanoic acid	0.557 [a]	0.20	0.080	ug/l	
375-85-9	Perfluoroheptanoic acid	0.383	0.020	0.0080	ug/l	
335-67-1	Perfluorooctanoic acid	0.856 [a]	0.20	0.080	ug/l	
375-95-1	Perfluorononanoic acid	0.0080 U	0.020	0.0080	ug/l	
335-76-2	Perfluorodecanoic acid	0.0080 U	0.020	0.0080	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0080 U	0.020	0.0080	ug/l	
307-55-1	Perfluorododecanoic acid	0.0080 U	0.020	0.0080	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.0080 U	0.020	0.0080	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.0080 U	0.020	0.0080	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.0525	0.020	0.0080	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.370	0.020	0.0080	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.217	0.020	0.0080	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.0080 U	0.020	0.0080	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [b]	0.0080 U	0.020	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	88%	104%	70-130%
	13C2-PFDA	80%	85%	70-130%

(a) Result is from Run# 2
(b) Associated BS recovery outside control limits.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	FB1-0316		
Lab Sample ID:	FA32826-10	**Date Sampled:**	03/30/16
Matrix:	AQ - Field Blank Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	Q20334.D	1	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2 [b]	Q20406.D	1	04/18/16	NAF	04/15/16	OP60102	SQ611

	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0077 U	0.019	0.0077	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0077 U	0.019	0.0077	ug/l	
307-24-4	Perfluorohexanoic acid	0.0406	0.019	0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0077 U	0.019	0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	0.0077 U	0.019	0.0077	ug/l	
375-95-1	Perfluorononanoic acid	0.0077 U	0.019	0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	0.0077 U	0.019	0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0077 U	0.019	0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	0.0077 U	0.019	0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.0077 U	0.019	0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.0077 U	0.019	0.0077	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.0117	0.019	0.0077	ug/l	J
355-46-4	Perfluorohexanesulfonic acid	0.0247	0.019	0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0077 U	0.019	0.0077	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.0077 U	0.019	0.0077	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [c]	0.0077 U	0.019	0.0077	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	111%	96%	70-130%
	13C2-PFDA	62% [d]	71%	70-130%

(a) Confirmed by re-extraction and reanalysis.
(b) Confirmation run for surrogate recoveries.
(c) Associated BS recovery outside control limits.
(d) Outside control limits.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	R-5-0316		
Lab Sample ID:	FA32826-11	**Date Sampled:**	03/31/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20335.D	200	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2	Q20336.D	500	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #3	Q20361.D	1000	04/14/16	NAF	04/06/16	OP59984	SQ609

	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2	130 ml	1.0 ml
Run #3	130 ml	1.0 ml

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	1.5 U	3.8	1.5	ug/l	
2706-90-3	Perfluoropentanoic acid	12.2	3.8	1.5	ug/l	
307-24-4	Perfluorohexanoic acid	73.5	3.8	1.5	ug/l	
375-85-9	Perfluoroheptanoic acid	23.3	3.8	1.5	ug/l	
335-67-1	Perfluorooctanoic acid	358 [a]	19	7.7	ug/l	
375-95-1	Perfluorononanoic acid	1.5 U	3.8	1.5	ug/l	
335-76-2	Perfluorodecanoic acid	1.5 U	3.8	1.5	ug/l	
2058-94-8	Perfluoroundecanoic acid	1.5 U	3.8	1.5	ug/l	
307-55-1	Perfluorododecanoic acid	1.5 U	3.8	1.5	ug/l	
72629-94-8	Perfluorotridecanoic acid	1.5 U	3.8	1.5	ug/l	
376-06-7	Perfluorotetradecanoic acid	1.5 U	3.8	1.5	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	12.1	3.8	1.5	ug/l	
355-46-4	Perfluorohexanesulfonic acid	133 [b]	9.6	3.8	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	32.0	3.8	1.5	ug/l	
335-77-3	Perfluorodecanesulfonic acid	1.5 U	3.8	1.5	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [c]	1.5 U	3.8	1.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
	13C2-PFHxA	0% [d]	0% [d]	0% [d]	70-130%
	13C2-PFDA	0% [d]	0% [d]	0% [d]	70-130%

(a) Result is from Run# 3
(b) Result is from Run# 2
(c) Associated BS recovery outside control limits.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	R-5-0316		
Lab Sample ID:	FA32826-11	**Date Sampled:**	03/31/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q

(d) Outside control limits due to dilution.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	EB1-0316		
Lab Sample ID:	FA32826-12	**Date Sampled:**	03/31/16
Matrix:	AQ - Equipment Blank	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20337.D	1	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2							

	Initial Volume	Final Volume
Run #1	130 ml	1.0 ml
Run #2		

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.0077 U	0.019	0.0077	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0077 U	0.019	0.0077	ug/l	
307-24-4	Perfluorohexanoic acid	0.0077 U	0.019	0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0077 U	0.019	0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	0.0077 U	0.019	0.0077	ug/l	
375-95-1	Perfluorononanoic acid	0.0077 U	0.019	0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	0.0077 U	0.019	0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.0077 U	0.019	0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	0.0077 U	0.019	0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.0077 U	0.019	0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.0077 U	0.019	0.0077	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.0077 U	0.019	0.0077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.0077 U	0.019	0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.0077 U	0.019	0.0077	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.0077 U	0.019	0.0077	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [a]	0.0077 U	0.019	0.0077	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	107%		70-130%
	13C2-PFDA	72%		70-130%

(a) Associated BS recovery outside control limits.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	ES-36R-0316		
Lab Sample ID:	FA32826-13	**Date Sampled:**	03/30/16
Matrix:	AQ - Ground Water	**Date Received:**	04/01/16
Method:	EPA 537 MOD EPA 537 MOD	**Percent Solids:**	n/a
Project:	PFC GW Investigation, NAS Corpus Christi, TX SWMU4		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Q20338.D	2	04/13/16	NAF	04/06/16	OP59984	SQ608
Run #2							

	Initial Volume	Final Volume
Run #1	120 ml	1.0 ml
Run #2		

PFAA List for State of Texas

CAS No.	Compound	Result	MQL	SDL	Units	Q
PERFLUOROALKYLCARBOXYLIC ACIDS						
375-22-4	Perfluorobutanoic acid	0.017 U	0.042	0.017	ug/l	
2706-90-3	Perfluoropentanoic acid	0.0470	0.042	0.017	ug/l	
307-24-4	Perfluorohexanoic acid	0.0513	0.042	0.017	ug/l	
375-85-9	Perfluoroheptanoic acid	0.0186	0.042	0.017	ug/l	J
335-67-1	Perfluorooctanoic acid	0.366	0.042	0.017	ug/l	
375-95-1	Perfluorononanoic acid	0.017 U	0.042	0.017	ug/l	
335-76-2	Perfluorodecanoic acid	0.017 U	0.042	0.017	ug/l	
2058-94-8	Perfluoroundecanoic acid	0.017 U	0.042	0.017	ug/l	
307-55-1	Perfluorododecanoic acid	0.017 U	0.042	0.017	ug/l	
72629-94-8	Perfluorotridecanoic acid	0.017 U	0.042	0.017	ug/l	
376-06-7	Perfluorotetradecanoic acid	0.017 U	0.042	0.017	ug/l	
PERFLUOROALKYLSULFONATES						
375-73-5	Perfluorobutanesulfonic acid	0.0586	0.042	0.017	ug/l	
355-46-4	Perfluorohexanesulfonic acid	0.206	0.042	0.017	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	0.516	0.042	0.017	ug/l	
335-77-3	Perfluorodecanesulfonic acid	0.017 U	0.042	0.017	ug/l	
PERFLUOROOCTANESULFONAMIDES						
754-91-6	PFOSA [a]	0.017 U	0.042	0.017	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	13C2-PFHxA	76%		70-130%
	13C2-PFDA	104%		70-130%

(a) Associated BS recovery outside control limits.

U = Not detected SDL = Sample Detection Limit
MQL = Method Quantitation Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- LRC Form
- QC Evaluation: DOD QSM5 Limits

PFC - SGS Accutest

FA32826

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. EJB033116 | Page 1 of 1

Project Name: PFC-Groundwater Investigation | PO No. 19487 | Project No. 08888175.18 Phase FLNVS.

Site Location: NAS Corpus Christi TX-SWMU4

CTO No. JMA1 | RC Project Manager: Claire Barnett

Sample Analysis Requested (*Enter number of containers for each test*)

Sampler/Site Phone# Emily J. Brickman / Brett Hamby

Lab Name: SGS Accutest | Turnaround Time(specify): 21 day

(3)→ HA

Lab ID	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	DFCs, Aqueous Soil	Extra Volume for MS/MSD	HOLD
1	R-3-0316	R-3	03/28/16	1800	WG	N	N	2	X		
2	R-4-0316	R-4	03/28/16	1845	WG	N	N	2	X		
3	TB1-0316	—	03/29/16	1500	WQ	TB	N	2	X		
4	ES-46-0316	ES-46	03/30/16	0929	WG	N	N	6	X	X	
5	ES-47-0316	ES-47	03/30/16	1020	WG	N	N	2	X		
6	DUP-0316	ES-47	03/30/16	1020	WQ	FD	N	2	X		
7	MCC-15-0316	MCC-15	03/30/16	1109	WG	N	N	2	X		
8	MCC-12-0316	MCC-12	03/30/16	1237	WG	N	N	2	X		
9	R-6-0316	R-6	03/30/16	1533	WG	N	N	2	X		
10	FB1 0316	—	03/31/16	1125	WQ	FB	N	2	X		
11	R-5 0316	R-5	03/31/16	1133	WG	N	N	2	X		
12	EB1-0316	—	03/31/16	1135	WQ	EB	N	2	X		

***Field* Comments:** Level 4 data package

***Lab* Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

Samples Iced?(check) Yes X No

Method of Shipment: FedEX

Airbill No:

Date Shipped: 3/31/2016

	Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1	Emily J. Brickman	3/31/2016	1540	Fx		
2	Fx				4/1/16	930
3						

(1) **AA**=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) **Sample Type: AB**=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) **Preservative added: HA**=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate, If **NO preservative** added leave blank

Rev 5/12

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA32826 CLIENT: Resolution PROJECT: PFC

DATE/TIME RECEIVED: 4/1/16 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 7827 1880 7441

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK PROVIDED
- [x] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.8
- [ ] CORRECTED TEMPS: 3.0 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

TEST STRIP LOT#s pH 0-3 204413A pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: Received an extra set of samples. Bottle ID reads "ES-36R-0316 @ 1650." (2 bottles). Will add as Sample #13.

TECHNICIAN SIGNATURE/DATE: 4/2/16 REVIEWER SIGNATURE/DATE: Tracy Zu 4-2-16

NF 11/15 receipt confirmation 111015.xls



Company

Street Address *We cannot deliver to P.O. boxes or P.O. ZIP codes.*

ORIGIN ID:CRPA (214) 529-5600
EMILY BRICKMAN
ENSAFE INC
4545 FULLER DR STE 342
STE 342
IRVING, TX 75038
UNITED STATES US

SHIP DATE: 31MAR16
ACTWGT: 37.90 LB
CAD: 006993941/SSFE1621
DIMS: 22x13x13 IN
BILL THIRD PARTY

TO ACCUTEST LABS

4405 VINELAND RD STE C15

ORLANDO FL 32811

(407) 425-6700 REF:

INV:
PO: DEPT:

FedEx Express

TRK# 0201 7827 1880 7[illegible]1

FRI - 01 APR 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US MCO

FA32826: Chain of Custody
Page 3 of 3

Appendix A Laboratory Data Package Cover Page

This data package is for Job No. FA32826 and laboratory batch no(s): OP59984, OP60102 consist of

- ☐ This signature page, the laboratory review checklist, and the following reportable data:
- ☐ R1 Field chain-of-custody documentation;
- ☐ R2 Sample identification cross-reference;
- ☐ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☐ R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☐ R5 Test reports/summary forms for blank samples;
- ☐ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☐ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☐ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- ☐ R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
- ☐ R10 Other problems or anomalies.

The Exception Report for each "No"or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Report. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC&25.6 and was last inspected by [ ] TCEQ or [X] __FDOH__ on January 2010. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Lovelie Metzgar	Lovelie Metzgar	QA Officer	04/22/2016
Name (Printed)	Signature	Official Title (printed)	Date

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: SGS Accutest – Orlando	LRC Date: 04/22/2016
Project Name: PFC GW Investigation, NAS Corpus Christi, TX SWMU4	Laboratory Job Number: FA32826
Reviewer Name: Lovelie Metzgar	Prep Batch Number(s): OP59984, OP60102

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soil/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			2
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?		X			4
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL minimize the matrix interference affects on the sample results?	X				
		Is the Laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: SGS Accutest – Orlando	LRC Date: 04/22/2016
Project Name: PFC GW Investigation, NAS Corpus Christi, TX SWMU4	Laboratory Job Number: FA32826
Reviewer Name: Lovelie Metzgar	Prep Batch Number(s): OP59984, OP60102

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER #[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: SGS Accutest – Orlando	LRC Date: 04/22/2016
Project Name: PFC GW Investigation, NAS Corpus Christi, TX SWMU4	Laboratory Job Number: FA32826
Reviewer Name: Lovelie Metzgar	Prep Batch Number(s): OP59984, OP60102

DESCRIPTION	
1	For reporting purposes, the MQL is defined in the report as the RL. The unadjusted MQL/RL is reported in the method blank. The SDL/MDL is defined in the report as the MDL.
2	All anomalies are discussed in the case narrative.
3	The detectability check sample does not support the laboratory's capability to detect the COCs at the MDL The DCS spike level exceeds 2-3x the MDL.
4	For reporting purposes, the method blank represents the unadjusted MDL. The DCS is on file in the laboratory and is not included in the laboratory data package.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O= organic analyses; I= inorganic analyses (and general chemistry, when applicable);
3. NA = Not Applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

QC Evaluation: DOD QSM5 Limits

Job Number: FA32826
Account: Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4
Collected: 03/28/16 thru 03/31/16

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No Exceptions found.

* Sample used for QC is not from job FA32826

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59984-MB	Q20280.D	1	04/13/16	NAF	04/06/16	OP59984	SQ607

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA32826-1, FA32826-2, FA32826-3, FA32826-4, FA32826-5, FA32826-6, FA32826-7, FA32826-8, FA32826-9, FA32826-10, FA32826-11, FA32826-12, FA32826-13

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.019	0.0077	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.019	0.0077	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.019	0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.019	0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.019	0.0077	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.019	0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.019	0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.019	0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.019	0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.019	0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.019	0.0077	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.019	0.0077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.019	0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.019	0.0077	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.019	0.0077	ug/l	
754-91-6	PFOSA	ND	0.019	0.0077	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	116%	70-130%
	13C2-PFDA	105%	70-130%

Method Blank Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59984-MB	Q20309.D	1	04/13/16	NAF	04/06/16	OP59984	SQ608

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA32826-1, FA32826-2, FA32826-3, FA32826-4, FA32826-5, FA32826-6, FA32826-7, FA32826-8, FA32826-9, FA32826-10, FA32826-11, FA32826-12, FA32826-13

CAS No.	Compound	Result	RL	MDL	Units	Q
375-22-4	Perfluorobutanoic acid	ND	0.019	0.0077	ug/l	
2706-90-3	Perfluoropentanoic acid	ND	0.019	0.0077	ug/l	
307-24-4	Perfluorohexanoic acid	ND	0.019	0.0077	ug/l	
375-85-9	Perfluoroheptanoic acid	ND	0.019	0.0077	ug/l	
335-67-1	Perfluorooctanoic acid	ND	0.019	0.0077	ug/l	
375-95-1	Perfluorononanoic acid	ND	0.019	0.0077	ug/l	
335-76-2	Perfluorodecanoic acid	ND	0.019	0.0077	ug/l	
2058-94-8	Perfluoroundecanoic acid	ND	0.019	0.0077	ug/l	
307-55-1	Perfluorododecanoic acid	ND	0.019	0.0077	ug/l	
72629-94-8	Perfluorotridecanoic acid	ND	0.019	0.0077	ug/l	
376-06-7	Perfluorotetradecanoic acid	ND	0.019	0.0077	ug/l	
375-73-5	Perfluorobutanesulfonic acid	ND	0.019	0.0077	ug/l	
355-46-4	Perfluorohexanesulfonic acid	ND	0.019	0.0077	ug/l	
1763-23-1	Perfluorooctanesulfonic acid	ND	0.019	0.0077	ug/l	
335-77-3	Perfluorodecanesulfonic acid	ND	0.019	0.0077	ug/l	
754-91-6	PFOSA	ND	0.019	0.0077	ug/l	

CAS No.	Surrogate Recoveries		Limits
	13C2-PFHxA	136%* [a]	70-130%
	13C2-PFDA	99%	70-130%

(a) Outside control limits.

Blank Spike Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59984-BS	Q20279.D	1	04/13/16	NAF	04/06/16	OP59984	SQ607

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA32826-1, FA32826-2, FA32826-3, FA32826-4, FA32826-5, FA32826-6, FA32826-7, FA32826-8, FA32826-9, FA32826-10, FA32826-11, FA32826-12, FA32826-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2706-90-3	Perfluoropentanoic acid	0.154	0.113	73	70-130
307-24-4	Perfluorohexanoic acid	0.154	0.177	115	70-130
375-85-9	Perfluoroheptanoic acid	0.154	0.191	124	70-130
335-67-1	Perfluorooctanoic acid	0.154	0.196	127	70-130
375-95-1	Perfluorononanoic acid	0.154	0.182	118	70-130
335-76-2	Perfluorodecanoic acid	0.154	0.170	110	70-130
2058-94-8	Perfluoroundecanoic acid	0.154	0.128	83	70-130
307-55-1	Perfluorododecanoic acid	0.154	0.111	72	70-130
72629-94-8	Perfluorotridecanoic acid	0.154	0.107	70	70-130
376-06-7	Perfluorotetradecanoic acid	0.154	0.117	76	70-130
375-73-5	Perfluorobutanesulfonic acid	0.154	0.173	112	70-130
355-46-4	Perfluorohexanesulfonic acid	0.154	0.185	120	70-130
1763-23-1	Perfluorooctanesulfonic acid	0.154	0.175	114	70-130
335-77-3	Perfluorodecanesulfonic acid	0.154	0.121	79	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	114%	70-130%
	13C2-PFDA	106%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59984-BS	Q20308.D	1	04/13/16	NAF	04/06/16	OP59984	SQ608

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA32826-1, FA32826-2, FA32826-3, FA32826-4, FA32826-5, FA32826-6, FA32826-7, FA32826-8, FA32826-9, FA32826-10, FA32826-11, FA32826-12, FA32826-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
754-91-6	PFOSA	0.154	0.0696	45*	50-150 [a]

CAS No.	Surrogate Recoveries	BSP	Limits
	13C2-PFHxA	130%	70-130%
	13C2-PFDA	97%	70-130%

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59984-MS	Q20321.D	200	04/13/16	NAF	04/06/16	OP59984	SQ608
OP59984-MSD	Q20322.D	200	04/13/16	NAF	04/06/16	OP59984	SQ608
FA32826-4	Q20317.D	200	04/13/16	NAF	04/06/16	OP59984	SQ608
FA32826-4	Q20359.D	1000	04/14/16	NAF	04/06/16	OP59984	SQ609

The QC reported here applies to the following samples: **Method:** EPA 537 MOD

FA32826-1, FA32826-2, FA32826-3, FA32826-4, FA32826-5, FA32826-6, FA32826-7, FA32826-8, FA32826-9, FA32826-10, FA32826-11, FA32826-12, FA32826-13

CAS No.	Compound	FA32826-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
2706-90-3	Perfluoropentanoic acid	4.98		0.154	3.63	-878* [a]	0.154	4.19	-514* [a]	14	70-130/30
307-24-4	Perfluorohexanoic acid	52.8		0.154	51.4	-910* [a]	0.154	50.8	-1300* [a]	1	70-130/30
375-85-9	Perfluoroheptanoic acid	20.4		0.154	19.8	-390* [a]	0.154	19.8	-390* [a]	0	70-130/30
335-67-1	Perfluorooctanoic acid	355 [b]		0.154	249	-68900* [d]	0.154	263	-59800* [d]	5	70-130/30
375-95-1	Perfluorononanoic acid	2.97	J	0.154	3.16	124	0.154	3.20	150* [a]	1	70-130/30
335-76-2	Perfluorodecanoic acid	4.2 U		0.154	ND	0*	0.154	ND	0*	nc	70-130/30
2058-94-8	Perfluoroundecanoic acid	4.2 U		0.154	ND	0*	0.154	ND	0*	nc	70-130/30
307-55-1	Perfluorododecanoic acid	4.2 U		0.154	ND	0*	0.154	ND	0*	nc	70-130/30
72629-94-8	Perfluorotridecanoic acid	4.2 U		0.154	ND	0*	0.154	ND	0*	nc	70-130/30
376-06-7	Perfluorotetradecanoic acid	4.2 U		0.154	ND	0*	0.154	ND	0*	nc	70-130/30
375-73-5	Perfluorobutanesulfonic acid	3.80	J	0.154	4.10	195* [a]	0.154	3.99	124	3	70-130/30
355-46-4	Perfluorohexanesulfonic acid	185 [b]		0.154	122	-40950* [d]	0.154	122	-40950* [d]	0	70-130/30
1763-23-1	Perfluorooctanesulfonic acid	155 [b]		0.154	126	-18850* [d]	0.154	122	-21450* [d]	3	70-130/30
335-77-3	Perfluorodecanesulfonic acid	4.2 U		0.154	ND	0*	0.154	ND	0*	nc	70-130/30
754-91-6	PFOSA	4.2 U		0.154	ND	0*	0.154	ND	0*	nc	50-150/30 [c]

CAS No.	Surrogate Recoveries	MS	MSD	FA32826-4	FA32826-4	Limits
	13C2-PFHxA	0%* [d]	0%* [d]	0%* [d]	0%* [d]	70-130%
	13C2-PFDA	0%* [d]	0%* [d]	0%* [d]	0%* [d]	70-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Advisory control limits.
(d) Outside control limits due to dilution.

* = Outside of Control Limits.

Semivolatile Internal Standard Area Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Check Std:	SQ607-CC607	**Injection Date:**	04/13/16
Lab File ID:	Q20277.D	**Injection Time:**	00:23
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	31992	6.54	19240	7.19	12127	7.19	11778	11.31
Check Std [b]	31278	6.56	19809	7.21	12579	7.19	11075	11.36
Upper Limit [c]	47988	7.56	28860	8.21	18191	8.19	17667	12.36
Lower Limit [d]	15996	5.56	9620	6.21	6064	6.19	5889	10.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP59984-BS	34769	6.56	22870	7.21	12698	7.19	12227	11.39
OP59984-MB	33110	6.56	21677	7.21	12418	7.20	11287	11.39

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = d3-MeFOSAA
IS 4 = 13C2-PFDoDA

(a) Initial Cal is: SQ607-ICC607 Q20252.D 04/12/16 15:31. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to +50% of initial cal area.
(c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Check Std:	SQ608-CC607	**Injection Date:**	04/13/16
Lab File ID:	Q20306.D	**Injection Time:**	12:00
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	31992	6.54	19240	7.19	12127	7.19	11778	11.31
Check Std [b]	26997	6.55	14036	7.19	8806	7.20	9766	11.25
Upper Limit [c]	47988	7.55	28860	8.19	18191	8.20	17667	12.25
Lower Limit [d]	15996	5.55	9620	6.19	6064	6.20	5889	10.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP59984-BS	29305	6.54	14652	7.19	11017	7.19	10577	11.24
OP59984-MB	28136	6.54	15096	7.18	10905	7.19	9703	11.24
ZZZZZZ	28481	6.54	14908	7.18	9615	7.19	9751	11.24
ZZZZZZ	29113	6.54	14798	7.18	10502	7.19	9830	11.24
ZZZZZZ	27760	6.53	13927	7.15	9567	7.19	10705	11.18
ZZZZZZ	27825	6.53	14549	7.16	9123	7.19	10180	11.21
FA32826-1	19743	6.51	13638	7.15	9613	7.17	8877	11.20
FA32826-2	25276	6.53	13788	7.16	9416	7.19	9242	11.21
FA32826-3	28915	6.54	15469	7.18	9702	7.19	9981	11.22
FA32826-4	25417	6.53	13887	7.18	9581	7.19	9442	11.21

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = d3-MeFOSAA
IS 4 = 13C2-PFDoDA

(a) Initial Cal is: SQ607-ICC607 Q20252.D 04/12/16 15:31. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to +50% of initial cal area.
(c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Check Std:	SQ608-CC607	**Injection Date:**	04/13/16
Lab File ID:	Q20318.D	**Injection Time:**	16:28
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	31992	6.54	19240	7.19	12127	7.19	11778	11.31
Check Std [b]	25932	6.54	13942	7.18	9552	7.19	9473	11.22
Upper Limit [c]	47988	7.54	28860	8.18	18191	8.19	17667	12.22
Lower Limit [d]	15996	5.54	9620	6.18	6064	6.19	5889	10.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP59984-MS	25947	6.54	14475	7.18	9728	7.19	9593	11.22
OP59984-MSD	27339	6.54	15664	7.18	10534	7.19	10083	11.24
FA32826-5	28460	6.54	14994	7.18	10133	7.19	10139	11.25
FA32826-5	28756	6.54	15885	7.18	11464	7.19	10015	11.25
FA32826-6	29085	6.54	15855	7.18	10343	7.19	10025	11.26
FA32826-6	27547	6.54	15508	7.19	11431	7.19	9864	11.26
FA32826-7	25787	6.54	15661	7.18	10362	7.19	9641	11.25
FA32826-7	26754	6.54	14568	7.19	9592	7.19	9696	11.25

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = d3-MeFOSAA
IS 4 = 13C2-PFDoDA

(a) Initial Cal is: SQ607-ICC607 Q20252.D 04/12/16 15:31. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to +50% of initial cal area.
(c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.

Semivolatile Internal Standard Area Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Check Std:	SQ608-CC607	**Injection Date:**	04/13/16
Lab File ID:	Q20330.D	**Injection Time:**	20:43
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	31992	6.54	19240	7.19	12127	7.19	11778	11.31
Check Std [b]	26071	6.54	14762	7.18	10180	7.19	9783	11.21
Upper Limit [c]	47988	7.54	28860	8.18	18191	8.19	17667	12.21
Lower Limit [d]	15996	5.54	9620	6.18	6064	6.19	5889	10.21

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
FA32826-9	29699	6.55	17046	7.19	12627	7.19	10041	11.26
FA32826-10 [e]	31911	6.55	17777	7.20	12565	7.19	10176	11.26
FA32826-11	30200	6.55	16886	7.20	12254	7.20	10073	11.29
FA32826-11	30082	6.55	16854	7.20	10759	7.20	9996	11.29
FA32826-12	33159	6.56	18268	7.20	12242	7.20	10306	11.30
FA32826-13	18285	6.53	15720	7.18	11571	7.19	8816	11.25

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = d3-MeFOSAA
IS 4 = 13C2-PFDoDA

(a) Initial Cal is: SQ607-ICC607 Q20252.D 04/12/16 15:31. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to +50% of initial cal area.
(c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
(e) Confirmed by re-extraction and reanalysis.

Semivolatile Internal Standard Area Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Check Std:	SQ609-CC607	**Injection Date:**	04/14/16
Lab File ID:	Q20353.D	**Injection Time:**	09:37
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	31992	6.54	19240	7.19	12127	7.19	11778	11.31
Check Std [b]	30979	6.56	16872	7.20	12231	7.19	9917	11.29
Upper Limit [c]	47988	7.56	28860	8.20	18191	8.19	17667	12.29
Lower Limit [d]	15996	5.56	9620	6.20	6064	6.19	5889	10.29

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP60074-BS	32286	6.56	17151	7.21	13246	7.20	9525	11.30
OP60074-MB	32509	6.56	17701	7.20	12279	7.20	9808	11.30
FA32610-1	31140	6.56	16667	7.20	12000	7.19	9155	11.29
OP60074-DUP	32026	6.55	17088	7.20	11997	7.19	8844	11.28
FA32826-1	30194	6.54	17492	7.19	12646	7.19	9876	11.28
FA32826-4	32050	6.55	17497	7.19	10808	7.19	9962	11.26
FA32826-8 [e]	20166	6.49	13509	7.14	14028	7.17	6741	10.96
FA32826-11	32205	6.54	17495	7.19	12716	7.19	10124	11.25
FA32826-9	22032	6.63	16658	7.29	14344	7.24	8160	11.43
SQ609-ECC607	26274	6.65	15342	7.32	11212	7.25	8167	11.50

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = d3-MeFOSAA
IS 4 = 13C2-PFDoDA

(a) Initial Cal is: SQ607-ICC607 Q20252.D 04/12/16 15:31. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to +50% of initial cal area.
(c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
(e) Dilution required due to matrix interference.

Semivolatile Internal Standard Area Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Check Std:	SQ611-CC607	**Injection Date:**	04/18/16
Lab File ID:	Q20403.D	**Injection Time:**	10:55
Instrument ID:	GCMSQ	**Method:**	EPA 537 MOD

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	31992	6.54	19240	7.19	12127	7.19	11778	11.31
Check Std [b]	33789	6.58	19057	7.24	12351	7.16	11316	11.56
Upper Limit [c]	47988	7.58	28860	8.24	18191	8.16	17667	12.56
Lower Limit [d]	15996	5.58	9620	6.24	6064	6.16	5889	10.56

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP60102-BS [e]	31621	6.56	17277	7.23	11094	7.16	10499	11.53
OP60102-MB	32937	6.56	18062	7.23	11234	7.16	10619	11.54
FA32826-10 [f]	33899	6.56	17828	7.23	11695	7.16	10460	11.53

IS 1 = 13C2-PFOA
IS 2 = 13C4-PFOS
IS 3 = d3-MeFOSAA
IS 4 = 13C2-PFDoDA

(a) Initial Cal is: SQ607-ICC607 Q20252.D 04/12/16 15:31. Area is AVERAGE of initial cal points.
(b) Check Std Limit = -50 to +50% of initial cal area.
(c) Upper Limit = +50% of initial standard area; Retention time +1 minutes of check standard.
(d) Lower Limit = -50% of initial standard area; Retention time -1 minutes of check standard.
(e) Insufficient sample for MS/MSD.
(f) Confirmation run for surrogate recoveries.

Semivolatile Surrogate Recovery Summary

Job Number: FA32826
Account: RESCTNM Resolution Consultants
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Method: EPA 537 MOD **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA32826-1	Q20314.D	76	115
FA32826-1	Q20358.D	89	86
FA32826-2	Q20315.D	91	77
FA32826-3	Q20316.D	112	74
FA32826-4	Q20317.D	0* [a]	0* [a]
FA32826-4	Q20359.D	0* [a]	0* [a]
FA32826-5	Q20323.D	0* [a]	0* [a]
FA32826-5	Q20324.D	0* [a]	0* [a]
FA32826-6	Q20325.D	0* [a]	0* [a]
FA32826-6	Q20326.D	0* [a]	0* [a]
FA32826-7	Q20327.D	84	85
FA32826-7	Q20328.D	0* [a]	0* [a]
FA32826-8	Q20360.D	67* [b]	85
FA32826-9	Q20332.D	104	85
FA32826-9	Q20362.D	88	80
FA32826-10	Q20334.D	111	62* [c]
FA32826-10	Q20406.D	96	71
FA32826-11	Q20335.D	0* [a]	0* [a]
FA32826-11	Q20336.D	0* [a]	0* [a]
FA32826-11	Q20361.D	0* [a]	0* [a]
FA32826-12	Q20337.D	107	72
FA32826-13	Q20338.D	76	104
OP59984-BS	Q20279.D	114	106
OP59984-BS	Q20308.D	130	97
OP59984-MB	Q20280.D	116	105
OP59984-MB	Q20309.D	136* [c]	99
OP59984-MS	Q20321.D	0* [a]	0* [a]
OP59984-MSD	Q20322.D	0* [a]	0* [a]

Surrogate Compounds	Recovery Limits
S1 = 13C2-PFHxA	70-130%
S2 = 13C2-PFDA	70-130%

(a) Outside control limits due to dilution.
(b) Outside control limits due to matrix interference.
(c) Outside control limits.

Initial Calibration Summary

Job Number: FA32826 **Sample:** SQ607-ICC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20252.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Initial Calibration ReSponse Factors - D:\MassHunter\Data\0412_LIST_SQ607\SQ607.batch.bin

Level ID : Calibration File
1 : D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2 : D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3 : D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4 : D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5 : D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6 : D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7 : D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Compound	1	2	3	4	5	6	7	AvgRF	%RSD	r^2
2) 13C2-PFDoDA	----------ISTD----------									
9) PFDoDA	1.2471	1.1916	1.1508	1.1352	1.1804	1.1738	1.1676	1.1781	3.035	0.9997
10) PFDS	0.4686	0.4535	0.4519	0.4143	0.4465	0.4424	0.4415	0.4456	3.711	0.9991
19) PFTeDA	0.5153	0.5028	0.4855	0.4755	0.5055	0.5024	0.5019	0.4984	2.680	0.9994
20) PFTrDA	0.8462	0.8262	0.7844	0.7794	0.8212	0.8059	0.8088	0.8103	2.897	0.9996
21) PFUnDA	1.1169	1.0190	0.9937	0.9552	1.0203	1.0035	1.0025	1.0159	4.879	0.9994
4) 13C2-PFOA	----------ISTD----------									
1) 13C2-PFDA	0.6497	0.6123	0.5981	0.5834	0.6219	0.6161	0.6172	0.6141	3.350	0.9994
3) 13C2-PFHxA	0.2692	0.2634	0.2537	0.2548	0.2649	0.2578	0.2549	0.2598	2.308	0.9995
6) PFBA	0.3288	0.3074	0.2992	0.3236	0.3146	0.3012	0.2959	0.3101	4.077	0.9976
8) PFDA	0.5064	0.4883	0.4732	0.4612	0.4876	0.4800	0.4832	0.4828	2.904	0.9995
11) PFHpA	0.5061	0.4752	0.4730	0.4628	0.4894	0.4783	0.4746	0.4799	2.912	0.9995
13) PFHxA	0.2786	0.2606	0.2557	0.2555	0.2674	0.2568	0.2532	0.2611	3.454	0.9989
15) PFNA	0.4699	0.4559	0.4467	0.4252	0.4643	0.4514	0.4549	0.4526	3.173	0.9989
16) PFOA	1.0199	0.9684	0.9338	0.9193	0.9548	0.9258	0.9262	0.9497	3.746	0.9996
18) PFPeA	0.0998	0.0932	0.0930	0.0969	0.0963	0.0923	0.0910	0.0946	3.286	0.9984
5) 13C4-PFOS	----------ISTD----------									
7) PFBS	0.3525	0.3388	0.3298	0.3342	0.3406	0.3397	0.3356	0.3387	2.103	0.9998
12) PFHpS	0.6718	0.6460	0.6213	0.6245	0.6511	0.6466	0.6362	0.6425	2.677	0.9996
14) PFHxS	0.6833	0.6291	0.5961	0.5859	0.5997	0.5923	0.5825	0.6099	5.870	0.9995
17) PFOS	1.0765	1.0256	1.0084	1.0301	1.0819	1.0328	1.0165	1.0388	2.775	0.9986
25) d3-MeFOSAA	----------ISTD----------									
22) PFOSA	2.2959	2.3233	2.1921	2.1366	2.2184	2.1787	2.1670	2.2160	3.114	0.9997
23) EtFOSAA	1.5944	1.1028	0.8864	0.7968	0.8404	0.8566	0.8560	0.9905	28.683	0.9991
24) MeFOSAA	1.8198	1.1863	0.9827	0.8879	0.9540	0.9557	0.9613	1.1068	29.631	0.9989
26) d5-EtFOSAA	1.6199	1.0531	0.8330	0.7673	0.8081	0.8018	0.8282	0.9588	31.946	0.9994

*(value) - Average RF below (value)

Initial Calibration Verification

Job Number: FA32826 **Sample:** SQ607-ICV607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20256.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0412_LIST_SQ607\SQ607.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20256
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	18.952	-5.2	94.8
PFBS	20.000	19.431	-2.8	97.2
PFDA	20.000	19.804	-1.0	99.0
PFDoDA	20.000	21.290	6.5	106.5
PFDS	20.000	21.004	5.0	105.0
PFHpA	20.000	19.531	-2.3	97.7
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	19.430	-2.9	97.1
PFHxS	20.000	19.722	-1.4	98.6
PFNA	20.000	19.413	-2.9	97.1
PFOA	20.000	20.035	0.2	100.2
PFOS	20.000	19.500	-2.5	97.5
PFPeA	20.000	19.182	-4.1	95.9
PFTeDA	20.000	22.458	12.3	112.3
PFTrDA	20.000	21.438	7.2	107.2
PFUnDA	20.000	20.720	3.6	103.6
PFOSA	20.000	0.000	0.0	0.0
EtFOSAA	40.000	63.732	# 59.3	159.3
MeFOSAA	40.000	63.168	# 57.9	157.9
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ607-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20277.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0412_LIST_SQ607\SQ607.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20277
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.718	-1.4	98.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.561	-2.2	97.8
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	16.606	-17.0	83.0
PFBS	20.000	19.319	-3.4	96.6
PFDA	20.000	19.731	-1.3	98.7
PFDoDA	20.000	20.031	0.2	100.2
PFDS	20.000	21.516	7.6	107.6
PFHpA	20.000	20.414	2.1	102.1
PFHpS	20.000	20.095	0.5	100.5
PFHxA	20.000	19.291	-3.5	96.5
PFHxS	20.000	20.716	3.6	103.6
PFNA	20.000	19.278	-3.6	96.4
PFOA	20.000	19.984	-0.1	99.9
PFOS	20.000	19.926	-0.4	99.6
PFPeA	20.000	17.326	-13.4	86.6
PFTeDA	20.000	18.973	-5.1	94.9
PFTrDA	20.000	19.775	-1.1	98.9
PFUnDA	20.000	19.943	-0.3	99.7
PFOSA	20.000	19.451	-2.7	97.3
EtFOSAA	40.000	32.594	-18.5	81.5
MeFOSAA	40.000	33.466	-16.3	83.7
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	37.107	-7.2	92.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ607-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20288.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0412_LIST_SQ607\SQ607.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20288
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.802	-1.0	99.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.944	-0.3	99.7
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	15.201	-24.0	76.0
PFBS	20.000	19.118	-4.4	95.6
PFDA	20.000	19.790	-1.0	99.0
PFDoDA	20.000	20.227	1.1	101.1
PFDS	20.000	22.476	12.4	112.4
PFHpA	20.000	21.291	6.5	106.5
PFHpS	20.000	20.278	1.4	101.4
PFHxA	20.000	19.667	-1.7	98.3
PFHxS	20.000	21.122	5.6	105.6
PFNA	20.000	19.893	-0.5	99.5
PFOA	20.000	19.994	0.0	100.0
PFOS	20.000	20.079	0.4	100.4
PFPeA	20.000	16.586	-17.1	82.9
PFTeDA	20.000	18.791	-6.0	94.0
PFTrDA	20.000	19.622	-1.9	98.1
PFUnDA	20.000	19.614	-1.9	98.1
PFOSA	20.000	16.839	-15.8	84.2
EtFOSAA	40.000	24.631	# -38.4	61.6
MeFOSAA	40.000	27.671	# -30.8	69.2
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	26.228	# -34.4	65.6

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ608-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20306.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0413_LIST_SQ608\SQ608.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20306
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	18.463	-7.7	92.3
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	23.920	19.6	119.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.581	17.9	117.9
PFBS	20.000	17.840	-10.8	89.2
PFDA	20.000	21.457	7.3	107.3
PFDoDA	20.000	16.446	-17.8	82.2
PFDS	20.000	17.198	-14.0	86.0
PFHpA	20.000	22.785	13.9	113.9
PFHpS	20.000	19.285	-3.6	96.4
PFHxA	20.000	23.877	19.4	119.4
PFHxS	20.000	19.773	-1.1	98.9
PFNA	20.000	20.944	4.7	104.7
PFOA	20.000	20.101	0.5	100.5
PFOS	20.000	20.381	1.9	101.9
PFPeA	20.000	21.950	9.8	109.8
PFTeDA	20.000	21.780	8.9	108.9
PFTrDA	20.000	21.115	5.6	105.6
PFUnDA	20.000	20.792	4.0	104.0
PFOSA	20.000	21.184	5.9	105.9
EtFOSAA	40.000	40.816	2.0	102.0
MeFOSAA	40.000	44.328	10.8	110.8
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	41.987	5.0	105.0

CC Criteria: +/- 25%

Initial Calibration Verification

Job Number: FA32826 **Sample:** SQ607-ICV607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20307.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0413_LIST_SQ608\SQ608.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20307
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	0.000	0.0	0.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	0.000	0.0	0.0
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	0.000	0.0	0.0
PFBS	20.000	0.000	0.0	0.0
PFDA	20.000	0.000	0.0	0.0
PFDoDA	20.000	0.000	0.0	0.0
PFDS	20.000	0.000	0.0	0.0
PFHpA	20.000	0.000	0.0	0.0
PFHpS	20.000	0.000	0.0	0.0
PFHxA	20.000	0.000	0.0	0.0
PFHxS	20.000	0.000	0.0	0.0
PFNA	20.000	0.000	0.0	0.0
PFOA	20.000	0.000	0.0	0.0
PFOS	20.000	0.000	0.0	0.0
PFPeA	20.000	0.000	0.0	0.0
PFTeDA	20.000	0.000	0.0	0.0
PFTrDA	20.000	0.000	0.0	0.0
PFUnDA	20.000	0.000	0.0	0.0
PFOSA	20.000	21.339	6.7	106.7
EtFOSAA	40.000	41.454	3.6	103.6
MeFOSAA	40.000	44.628	11.6	111.6
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	0.000	0.0	0.0

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ608-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20318.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0413_LIST_SQ608\SQ608.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20318
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.400	-3.0	97.0
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	21.811	9.1	109.1
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	18.629	-6.9	93.1
PFBS	20.000	17.991	-10.0	90.0
PFDA	20.000	20.714	3.6	103.6
PFDoDA	20.000	16.127	-19.4	80.6
PFDS	20.000	18.552	-7.2	92.8
PFHpA	20.000	21.454	7.3	107.3
PFHpS	20.000	19.508	-2.5	97.5
PFHxA	20.000	21.728	8.6	108.6
PFHxS	20.000	18.964	-5.2	94.8
PFNA	20.000	21.731	8.7	108.7
PFOA	20.000	22.286	11.4	111.4
PFOS	20.000	20.877	4.4	104.4
PFPeA	20.000	18.826	-5.9	94.1
PFTeDA	20.000	20.431	2.2	102.2
PFTrDA	20.000	20.943	4.7	104.7
PFUnDA	20.000	21.412	7.1	107.1
PFOSA	20.000	18.603	-7.0	93.0
EtFOSAA	40.000	31.636	-20.9	79.1
MeFOSAA	40.000	33.113	-17.2	82.8
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	31.405	-21.5	78.5

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ608-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20330.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0413_LIST_SQ608\SQ608.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20330
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.966	-0.2	99.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.467	-2.7	97.3
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	13.065	# -34.7	65.3
PFBS	20.000	17.495	-12.5	87.5
PFDA	20.000	20.385	1.9	101.9
PFDoDA	20.000	16.072	-19.6	80.4
PFDS	20.000	19.256	-3.7	96.3
PFHpA	20.000	20.886	4.4	104.4
PFHpS	20.000	20.083	0.4	100.4
PFHxA	20.000	19.069	-4.7	95.3
PFHxS	20.000	20.086	0.4	100.4
PFNA	20.000	21.876	9.4	109.4
PFOA	20.000	21.842	9.2	109.2
PFOS	20.000	20.865	4.3	104.3
PFPeA	20.000	15.038	-24.8	75.2
PFTeDA	20.000	19.451	-2.7	97.3
PFTrDA	20.000	20.065	0.3	100.3
PFUnDA	20.000	20.795	4.0	104.0
PFOSA	20.000	17.974	-10.1	89.9
EtFOSAA	40.000	35.162	-12.1	87.9
MeFOSAA	40.000	33.401	-16.5	83.5
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	31.086	-22.3	77.7

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ608-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20339.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0413_LIST_SQ608\SQ608.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20339
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	19.572	-2.1	97.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.984	-0.1	99.9
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	12.514	# -37.4	62.6
PFBS	20.000	17.289	-13.6	86.4
PFDA	20.000	20.195	1.0	101.0
PFDoDA	20.000	16.023	-19.9	80.1
PFDS	20.000	21.506	7.5	107.5
PFHpA	20.000	22.394	12.0	112.0
PFHpS	20.000	19.423	-2.9	97.1
PFHxA	20.000	19.745	-1.3	98.7
PFHxS	20.000	20.844	4.2	104.2
PFNA	20.000	20.752	3.8	103.8
PFOA	20.000	21.819	9.1	109.1
PFOS	20.000	20.755	3.8	103.8
PFPeA	20.000	15.487	-22.6	77.4
PFTeDA	20.000	20.562	2.8	102.8
PFTrDA	20.000	20.790	3.9	103.9
PFUnDA	20.000	21.728	8.6	108.6
PFOSA	20.000	15.380	-23.1	76.9
EtFOSAA	40.000	28.514	# -28.7	71.3
MeFOSAA	40.000	27.207	# -32.0	68.0
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	24.926	# -37.7	62.3

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ609-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20353.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0414_LIST_SQ609\SQ609.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20353
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	17.571	-12.1	87.9
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	24.712	23.6	123.6
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	26.322	# 31.6	131.6
PFBS	20.000	20.446	2.2	102.2
PFDA	20.000	19.082	-4.6	95.4
PFDoDA	20.000	16.220	-18.9	81.1
PFDS	20.000	19.577	-2.1	97.9
PFHpA	20.000	22.853	14.3	114.3
PFHpS	20.000	19.204	-4.0	96.0
PFHxA	20.000	24.519	22.6	122.6
PFHxS	20.000	19.699	-1.5	98.5
PFNA	20.000	20.142	0.7	100.7
PFOA	20.000	22.584	12.9	112.9
PFOS	20.000	21.516	7.6	107.6
PFPeA	20.000	24.223	21.1	121.1
PFTeDA	20.000	20.803	4.0	104.0
PFTrDA	20.000	20.843	4.2	104.2
PFUnDA	20.000	21.350	6.7	106.7
PFOSA	20.000	17.082	-14.6	85.4
EtFOSAA	40.000	26.903	# -32.7	67.3
MeFOSAA	40.000	25.660	# -35.9	64.1
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	23.966	# -40.1	59.9

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ609-ECC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20364.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0414_LIST_SQ609\SQ609.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20364
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.558	-17.2	82.8
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	25.434	# 27.2	127.2
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	23.926	19.6	119.6
PFBS	20.000	21.302	6.5	106.5
PFDA	20.000	17.374	-13.1	86.9
PFDoDA	20.000	16.642	-16.8	83.2
PFDS	20.000	21.512	7.6	107.6
PFHpA	20.000	24.140	20.7	120.7
PFHpS	20.000	21.150	5.8	105.8
PFHxA	20.000	25.250	# 26.2	126.2
PFHxS	20.000	21.947	9.7	109.7
PFNA	20.000	22.998	15.0	115.0
PFOA	20.000	23.309	16.5	116.5
PFOS	20.000	24.583	22.9	122.9
PFPeA	20.000	22.041	10.2	110.2
PFTeDA	20.000	22.469	12.3	112.3
PFTrDA	20.000	21.779	8.9	108.9
PFUnDA	20.000	20.980	4.9	104.9
PFOSA	20.000	17.142	-14.3	85.7
EtFOSAA	40.000	29.829	# -25.4	74.6
MeFOSAA	40.000	34.398	-14.0	86.0
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	24.704	# -38.2	61.8

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ611-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20403.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0418_LIST_SQ611\SQ611.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20403
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.930	-15.4	84.6
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	19.354	-3.2	96.8
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	22.613	13.1	113.1
PFBS	20.000	20.515	2.6	102.6
PFDA	20.000	18.080	-9.6	90.4
PFDoDA	20.000	16.464	-17.7	82.3
PFDS	20.000	18.958	-5.2	94.8
PFHpA	20.000	16.930	-15.4	84.6
PFHpS	20.000	19.270	-3.6	96.4
PFHxA	20.000	21.066	5.3	105.3
PFHxS	20.000	17.984	-10.1	89.9
PFNA	20.000	23.385	16.9	116.9
PFOA	20.000	21.335	6.7	106.7
PFOS	20.000	20.697	3.5	103.5
PFPeA	20.000	25.254	# 26.3	126.3
PFTeDA	20.000	20.661	3.3	103.3
PFTrDA	20.000	20.397	2.0	102.0
PFUnDA	20.000	21.410	7.1	107.1
PFOSA	20.000	17.566	-12.2	87.8
EtFOSAA	40.000	44.030	10.1	110.1
MeFOSAA	40.000	44.505	11.3	111.3
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	44.141	10.4	110.4

CC Criteria: +/- 25%

Continuing Calibration Summary

Job Number: FA32826 **Sample:** SQ611-CC607
Account: RESCTNM Resolution Consultants **Lab FileID:** Q20408.D
Project: PFC GW Investigation, NAS Corpus Christi, TX SWMU4

Continuing Calibration Report

Batch: D:\MassHunter\Data\0418_LIST_SQ611\SQ611.batch.bin

Level ID:Calibration File
1:D:\MassHunter\Data\0412_LIST_SQ607\Q20249.d
2:D:\MassHunter\Data\0412_LIST_SQ607\Q20250.d
3:D:\MassHunter\Data\0412_LIST_SQ607\Q20251.d
4:D:\MassHunter\Data\0412_LIST_SQ607\Q20252.d
5:D:\MassHunter\Data\0412_LIST_SQ607\Q20253.d
6:D:\MassHunter\Data\0412_LIST_SQ607\Q20254.d
7:D:\MassHunter\Data\0412_LIST_SQ607\Q20255.d

Data File: Q20408
Type : QC
Level : 4

Cpnd Name	Exp. Conc	Final Conc	Dev %	Area %
13C2-PFDA	20.000	16.812	-15.9	84.1
13C2-PFDoDA	---	--ISTD--		
13C2-PFHxA	20.000	18.489	-7.6	92.4
13C2-PFOA	---	--ISTD--		
13C4-PFOS	---	--ISTD--		
PFBA	20.000	20.729	3.6	103.6
PFBS	20.000	20.382	1.9	101.9
PFDA	20.000	17.651	-11.7	88.3
PFDoDA	20.000	16.246	-18.8	81.2
PFDS	20.000	18.915	-5.4	94.6
PFHpA	20.000	17.192	-14.0	86.0
PFHpS	20.000	19.824	-0.9	99.1
PFHxA	20.000	19.934	-0.3	99.7
PFHxS	20.000	18.863	-5.7	94.3
PFNA	20.000	22.427	12.1	112.1
PFOA	20.000	21.020	5.1	105.1
PFOS	20.000	20.912	4.6	104.6
PFPeA	20.000	22.619	13.1	113.1
PFTeDA	20.000	20.363	1.8	101.8
PFTrDA	20.000	20.294	1.5	101.5
PFUnDA	20.000	21.481	7.4	107.4
PFOSA	20.000	16.800	-16.0	84.0
EtFOSAA	40.000	37.580	-6.0	94.0
MeFOSAA	40.000	40.235	0.6	100.6
d3-MeFOSAA	---	--ISTD--		
d5-EtFOSAA	40.000	38.573	-3.6	96.4

CC Criteria: +/- 25%

GC/MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:15

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20314.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 15:00
Sample Name	:	FA32826-1
Vial	:	Vial 10
Sample Info	:	OP59984,SQ608,130,,,1.0,2,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

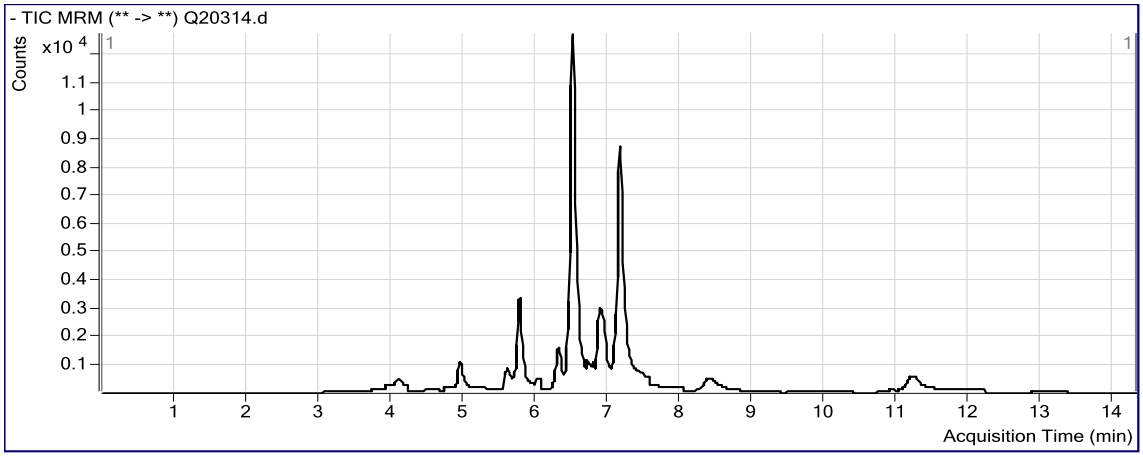
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.510	415.0 -> 370.0	19743	20.000	µg/L		-0.027
d3-MeFOSAA	7.174	573.0 -> 419.0	9613	40.000	µg/L		-0.012
13C4-PFOS	7.152	503.0 -> 80.0	13638	20.000	µg/L		-0.037
13C2-PFDoDA	11.200	615.0 -> 570.0	8877	20.000	µg/L		-0.112
System Monitoring Compounds							
13C2-PFHxA	4.941	315.0 -> 270.0	1931	7.60	µg/L		-0.050
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 37.99%				
d5-EtFOSAA	7.296	589.0 -> 419.0	189	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.397	515.0 -> 470.0	6976	11.49	µg/L		-0.100
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 57.47%				
Target Compounds							**Qvalue**
PFBA	3.352	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	3.961	263.0 -> 219.0	203	2.219	µg/L		100
PFBS	4.091	299.0 -> 80.0	1317	5.723	µg/L		83
PFHxA	4.946	313.0 -> 269.0	2828	11.154	µg/L		99
PFHxS	5.768	399.0 -> 80.0	8746	21.779	µg/L	m	84
PFHpA	5.773	363.0 -> 319.0	1719	3.649	µg/L	#	66
PFHpS	6.458	449.0 -> 80.0	621	1.421	µg/L		100
PFOA	6.500	413.0 -> 369.0	42966	46.768	µg/L	# m	73
PFOS	7.153	499.0 -> 80.0	36555	51.902	µg/L	m	93
MeFOSAA	7.175	570.0 -> 419.0	337	0.000	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	658	0.000	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

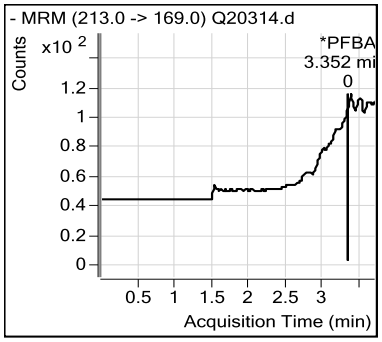
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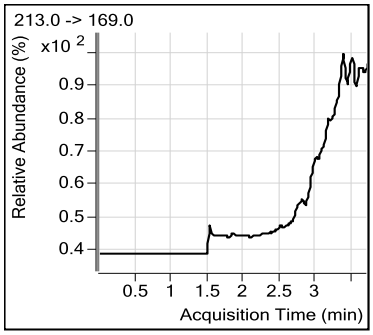
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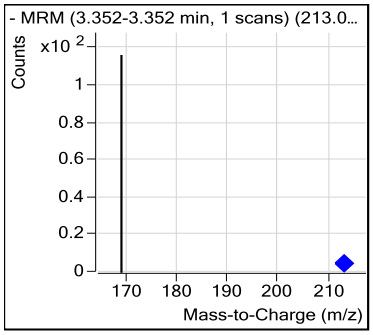
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Acquisition date	:	2016-04-13 15:00
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Vial	:	Vial 10
Sample Info	:	OP59984,SQ608,130,,,1.0,2,WATER
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Last Calib Update	:	2016-04-13 09:28



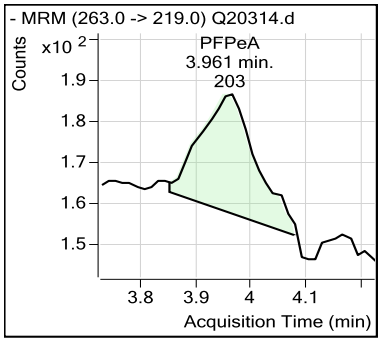
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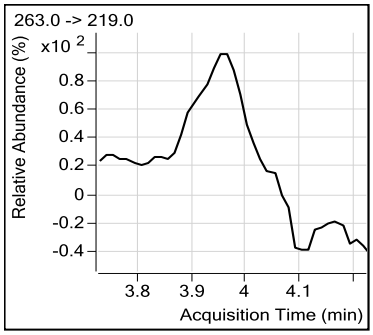


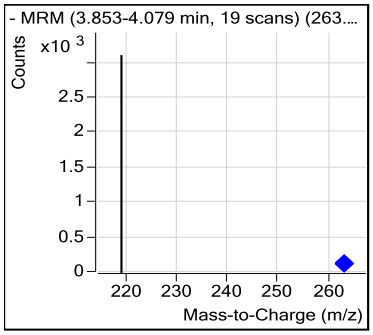




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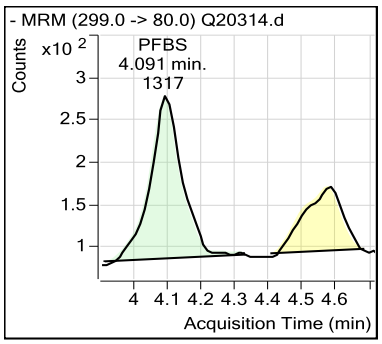


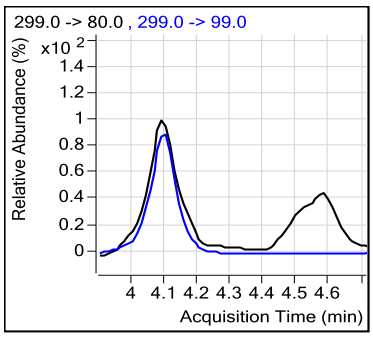


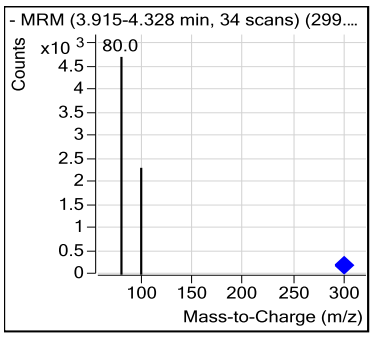


Perfluorinated Compounds by LC/MS/MS.

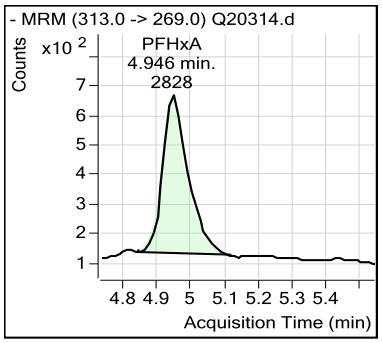
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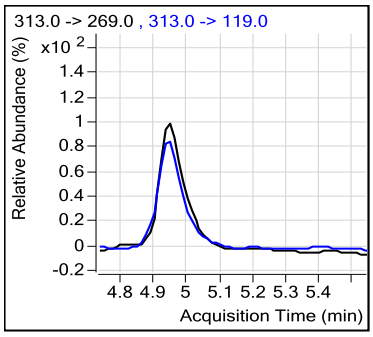


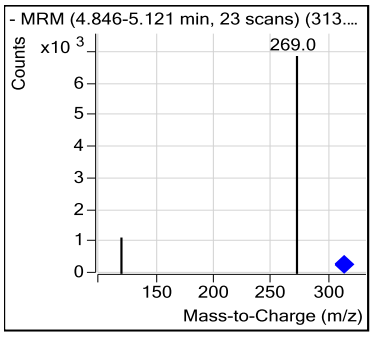




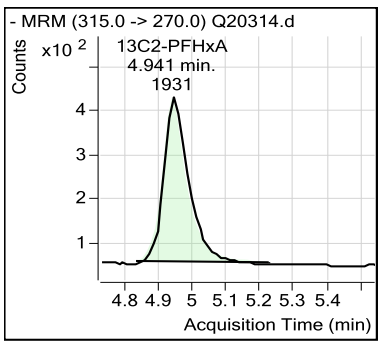
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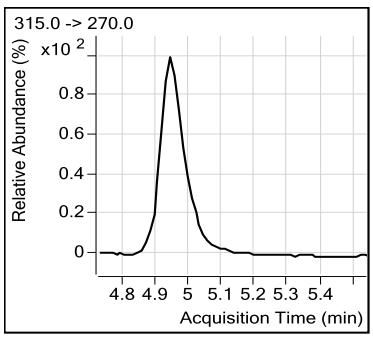


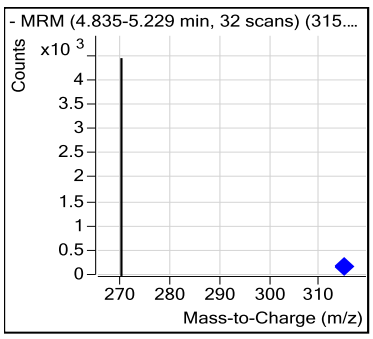




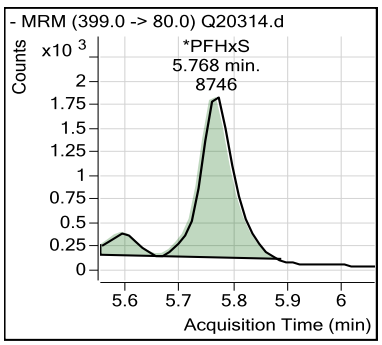
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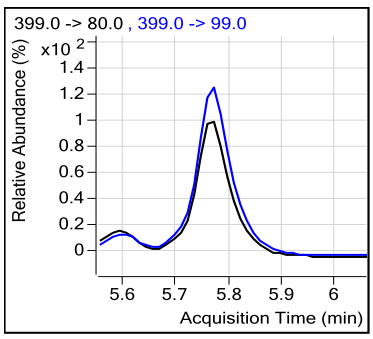


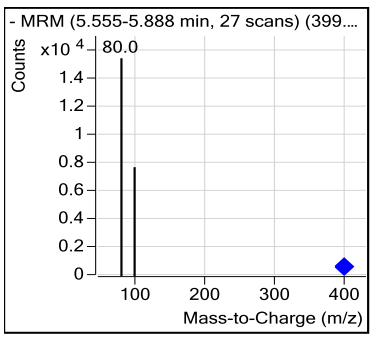




PFHxS





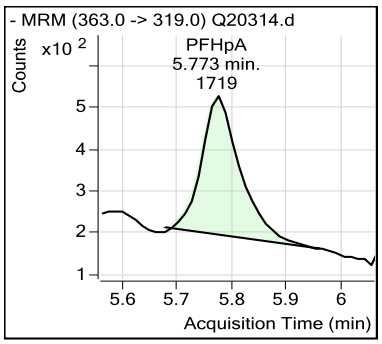


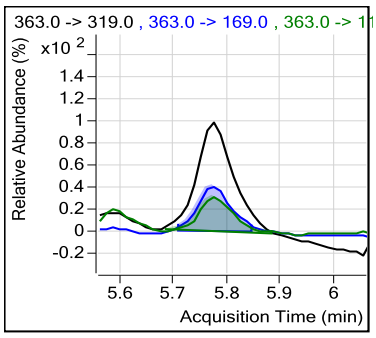
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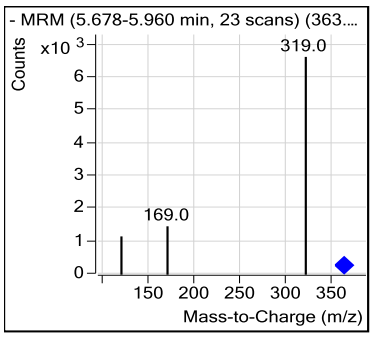
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Perfluorinated Compounds by LC/MS/MS.

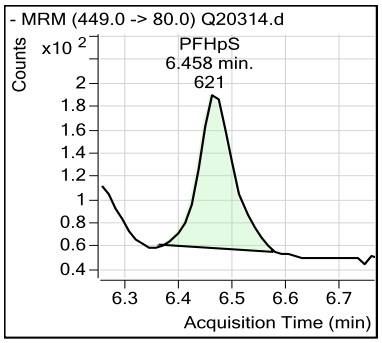
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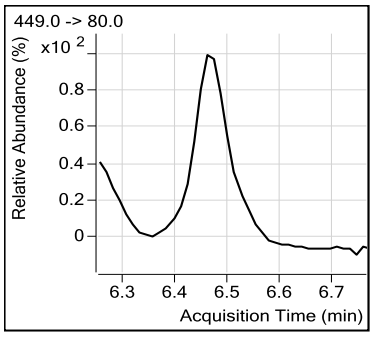


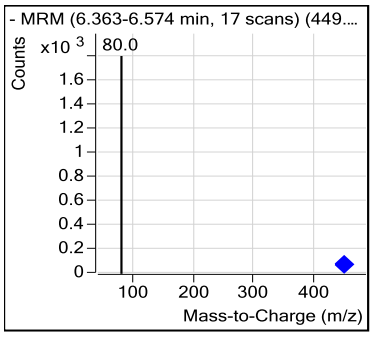




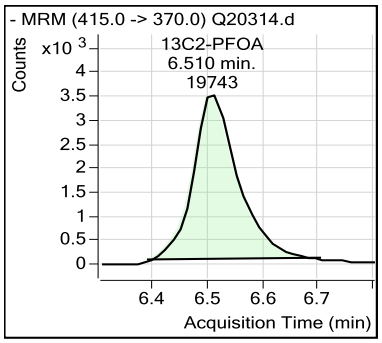
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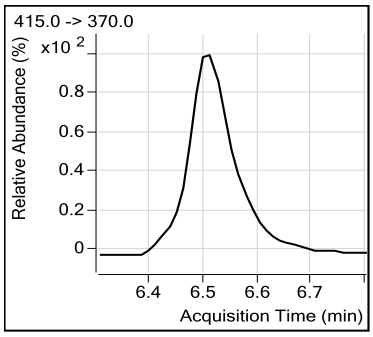


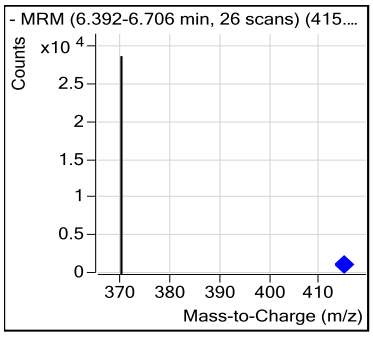




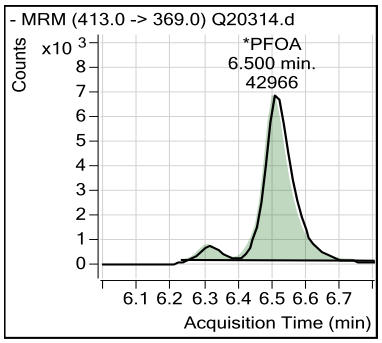
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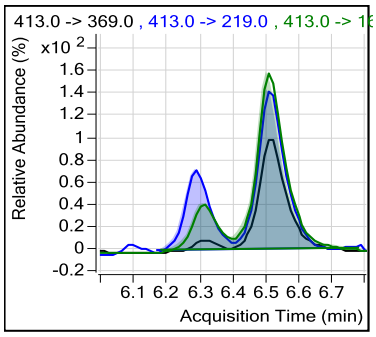


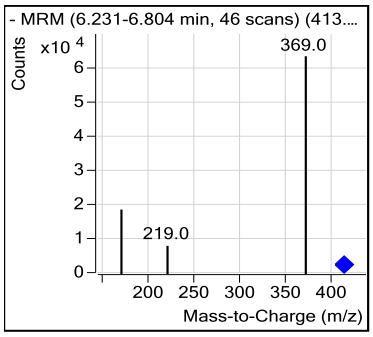




PFOA





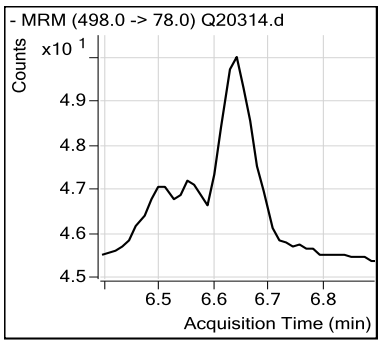


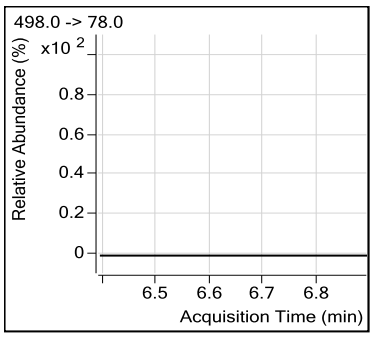
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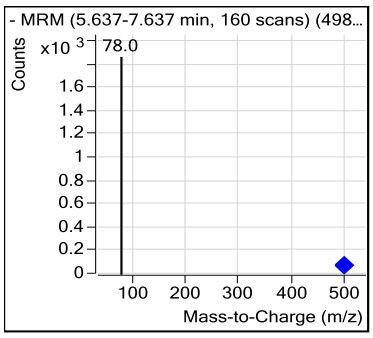
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Perfluorinated Compounds by LC/MS/MS.

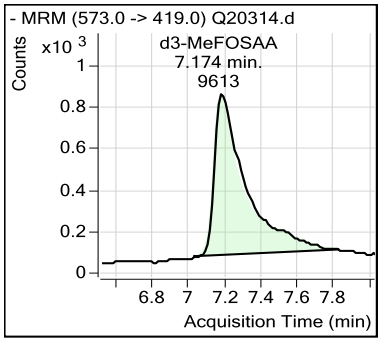
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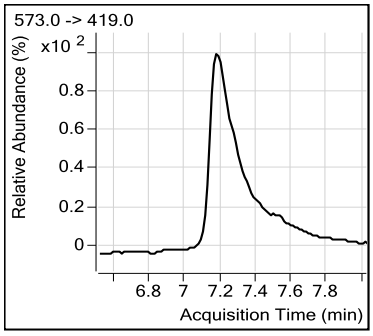


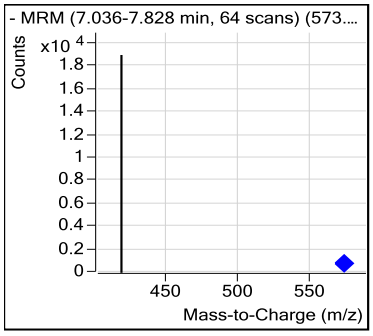




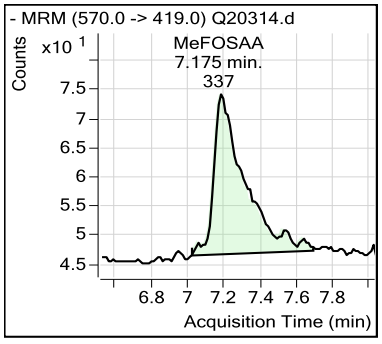
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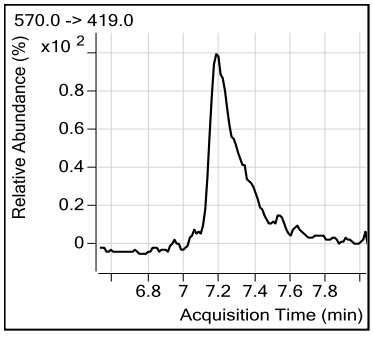


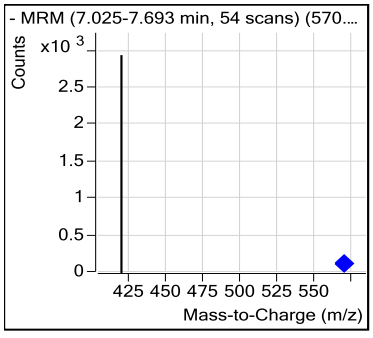




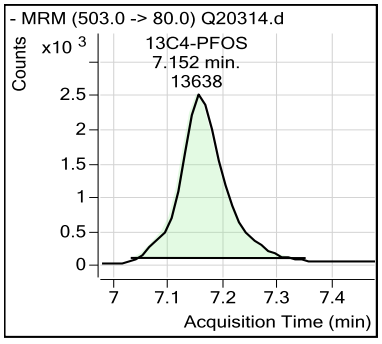
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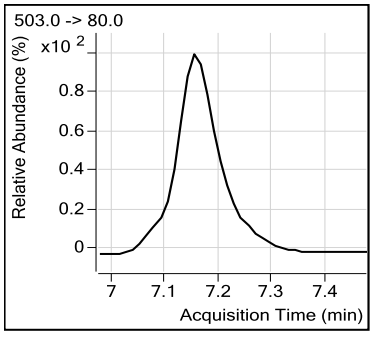


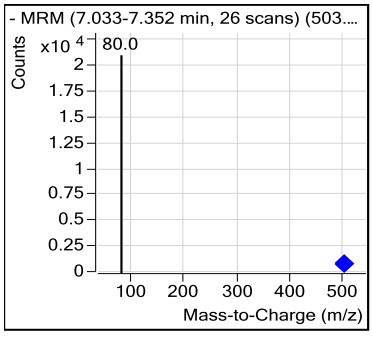




13C4-PFOS

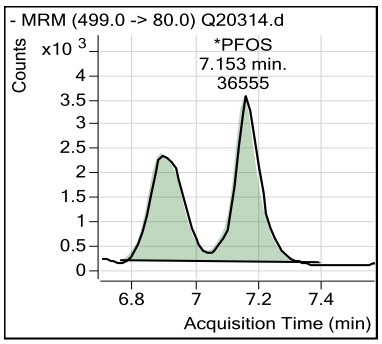


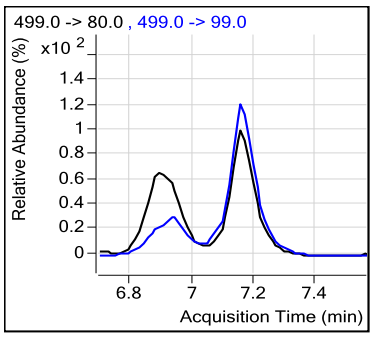


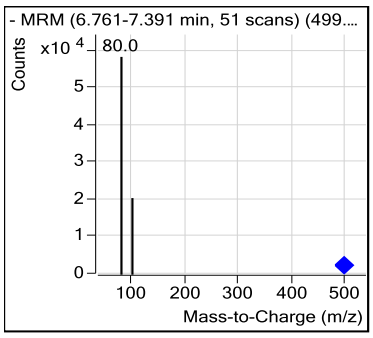


Perfluorinated Compounds by LC/MS/MS.

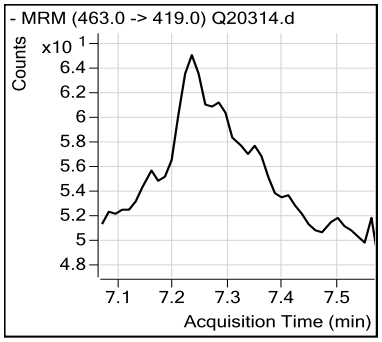
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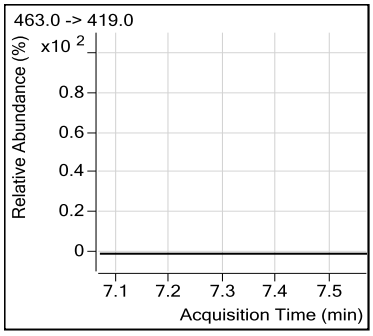


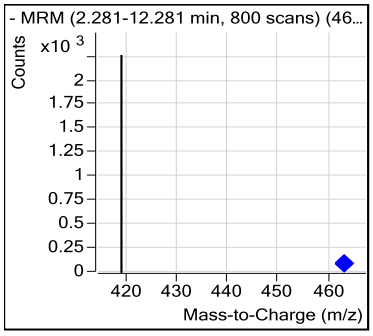




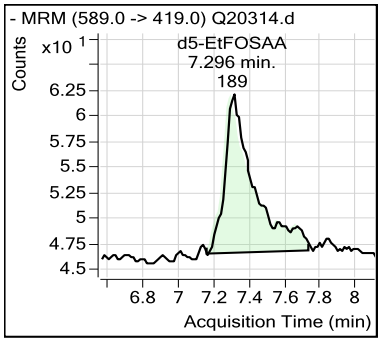
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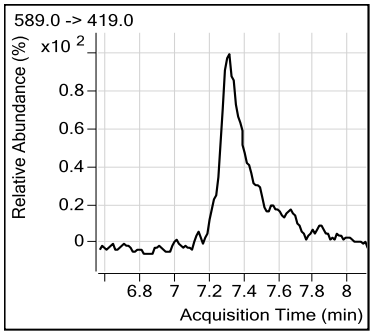


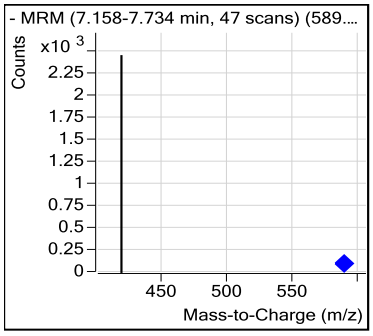




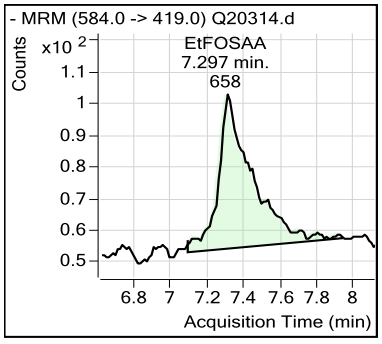
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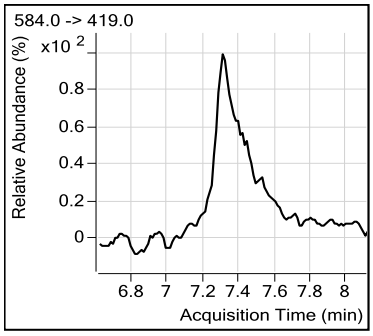


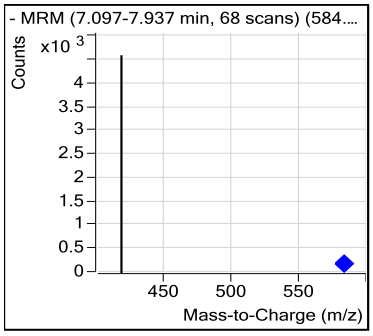




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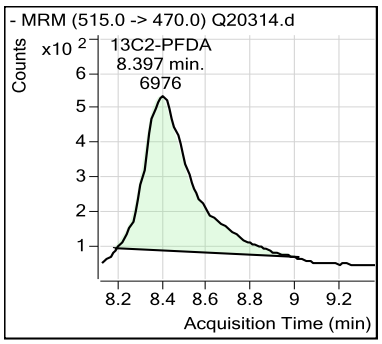


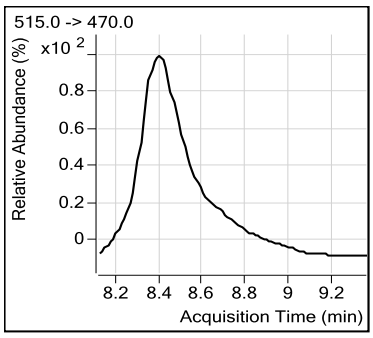


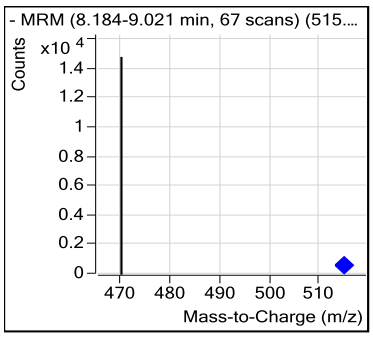


Perfluorinated Compounds by LC/MS/MS.

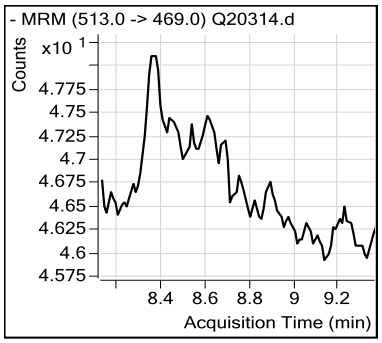
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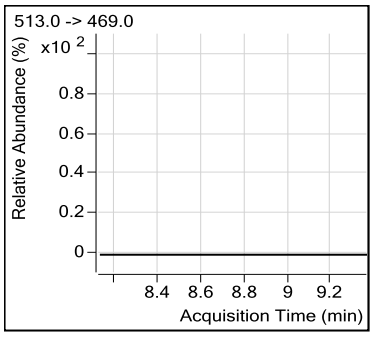


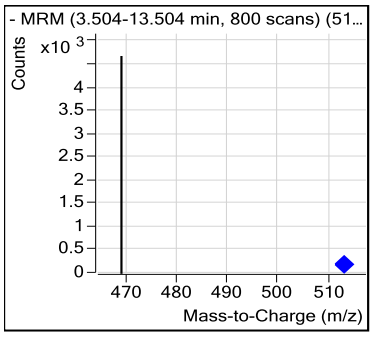




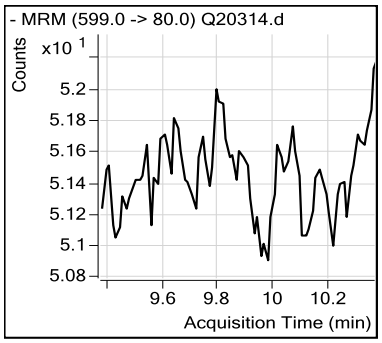
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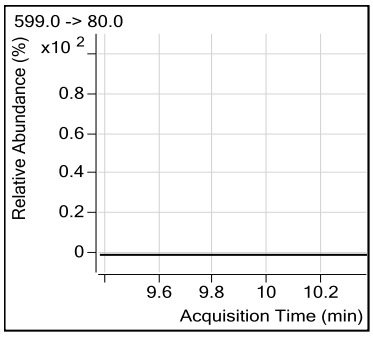


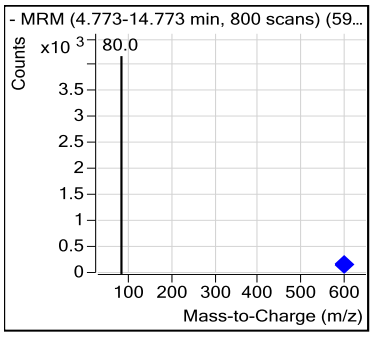




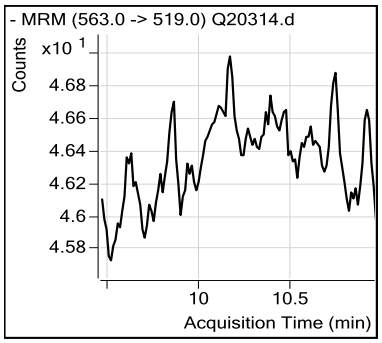
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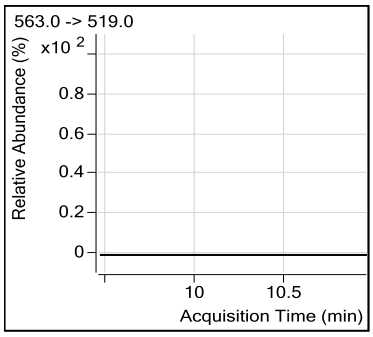


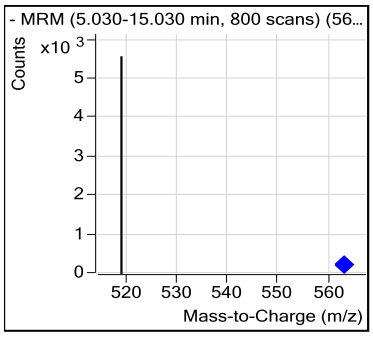




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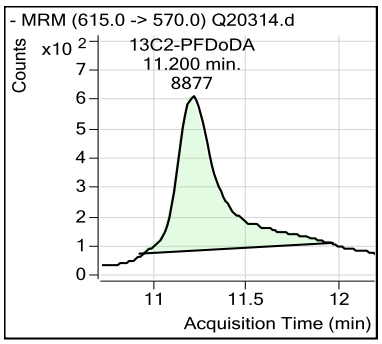


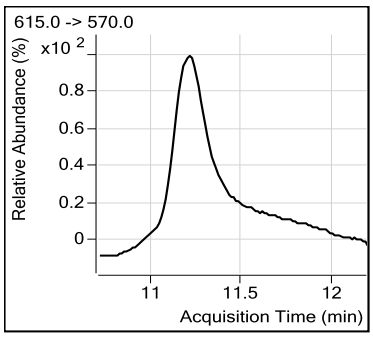


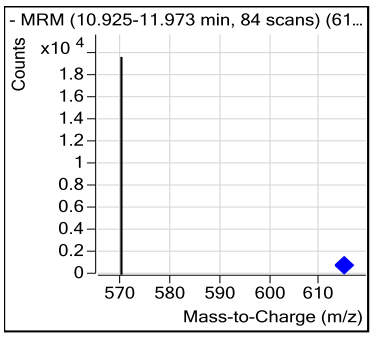


Perfluorinated Compounds by LC/MS/MS.

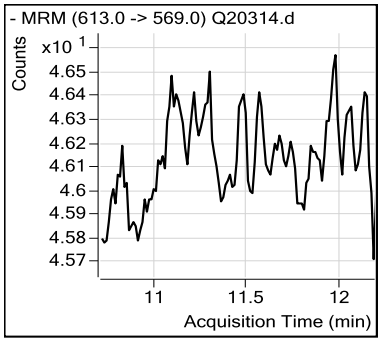
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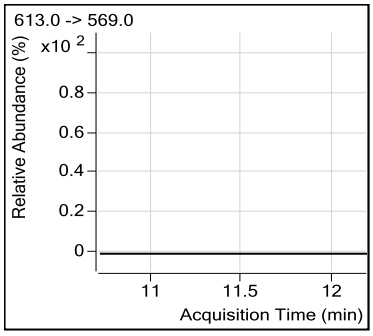


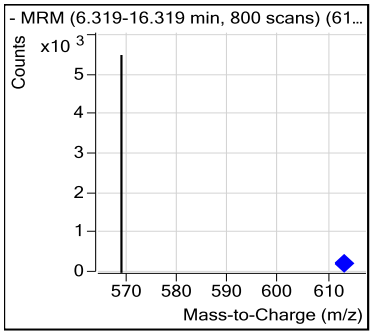




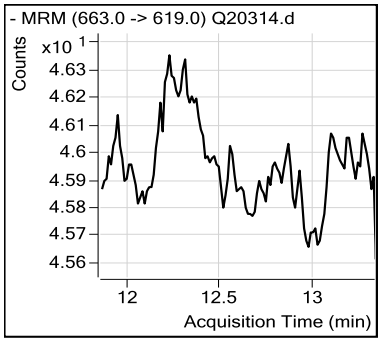
PFDoDA

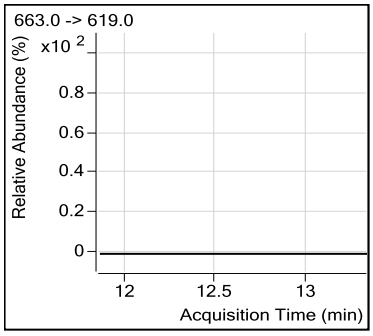


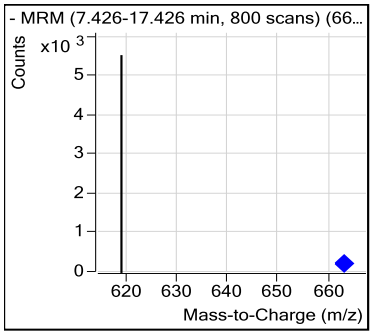




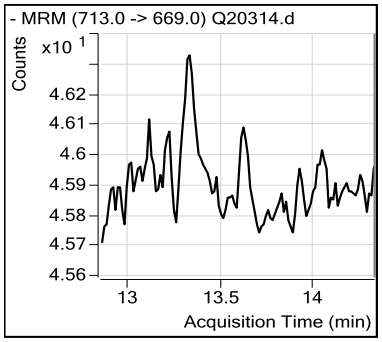
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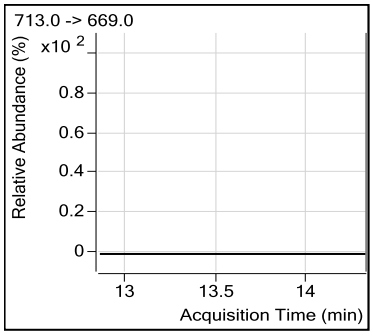


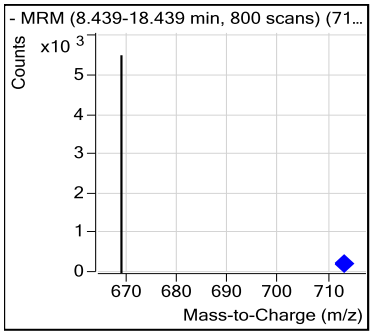




PFTeDA







Manual Integration Approval Summary

Sample Number: FA32826-1 **Method:** EPA 537 MOD
Lab FileID: Q20314.D **Analyst approved:** 04/14/16 16:24 Nancy Saunders
Injection Time: 04/13/16 15:00 **Supervisor approved:** 04/14/16 17:15 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.77	Split peak
Perfluorooctanoic acid	335-67-1		6.50	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.15	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:15

Perfluorinated Compounds by LC/MS/MS.

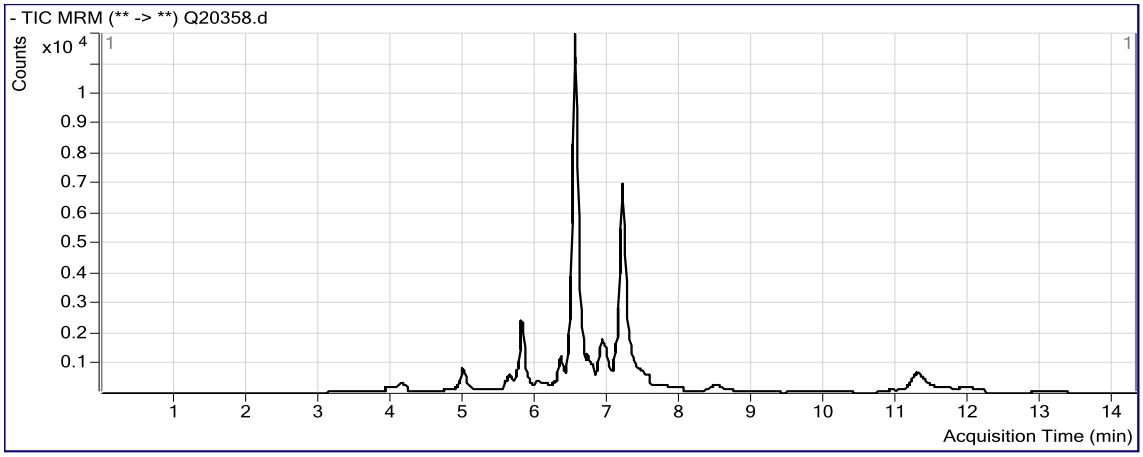
Data File	:	Q20358.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 11:34
Sample Name	:	FA32826-1
Vial	:	Vial 7
Sample Info	:	OP59984,SQ609,130,,,1,5,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	30194	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	12646	40.000	µg/L		0.000
13C4-PFOS	7.189	503.0 -> 80.0	17492	20.000	µg/L		0.000
13C2-PFDoDA	11.275	615.0 -> 570.0	9876	20.000	µg/L		-0.037
System Monitoring Compounds							
13C2-PFHxA	4.979	315.0 -> 270.0	1377	3.54	µg/L		-0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 17.72%				
d5-EtFOSAA	7.308	589.0 -> 419.0	371	0.00	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.497	515.0 -> 470.0	3180	3.43	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 17.13%				
Target Compounds							**Qvalue**
PFBA	3.365	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	3.986	263.0 -> 219.0	148	1.057	µg/L		100
PFBS	4.128	299.0 -> 80.0	785	2.659	µg/L		93
PFHxA	4.983	313.0 -> 269.0	2438	6.288	µg/L		98
PFHxS	5.793	399.0 -> 80.0	6706	13.018	µg/L	m	75
PFHpA	5.810	363.0 -> 319.0	1356	1.883	µg/L	#	68
PFHpS	6.496	449.0 -> 80.0	337	0.602	µg/L		100
PFOA	6.539	413.0 -> 369.0	33146	23.591	µg/L	# m	74
PFOS	7.191	499.0 -> 80.0	19878	22.005	µg/L	m	95
MeFOSAA	7.200	570.0 -> 419.0	283	0.000	µg/L		100
EtFOSAA	7.335	584.0 -> 419.0	435	0.000	µg/L		100

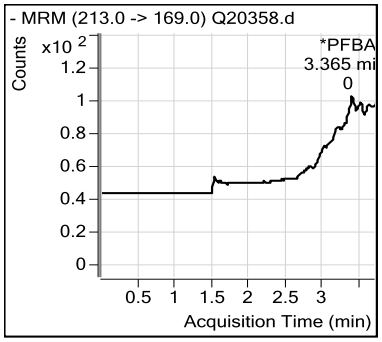
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

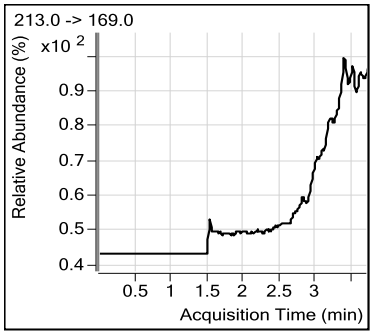
Perfluorinated Compounds by LC/MS/MS.

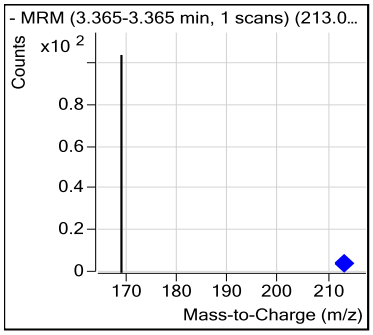
Data File	:	Q20358.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 11:34
Sample Name	:	FA32826-1
Vial	:	Vial 7
Sample Info	:	OP59984,SQ609,130,,,1,5,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28



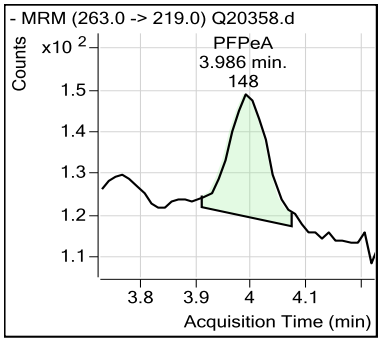
PFBA

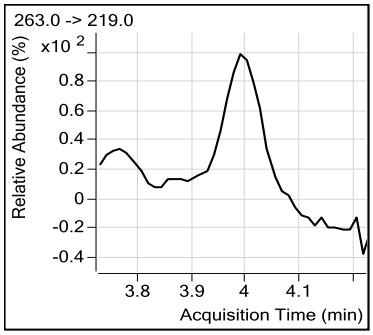


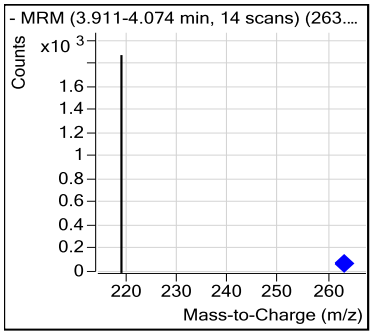




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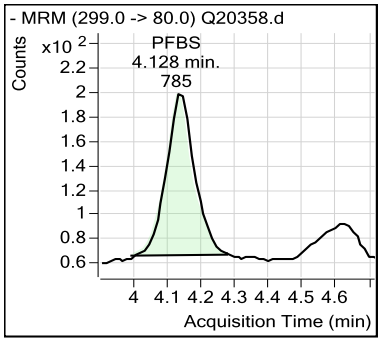


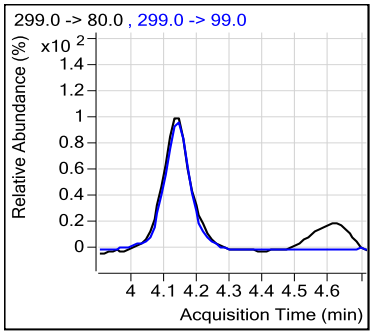


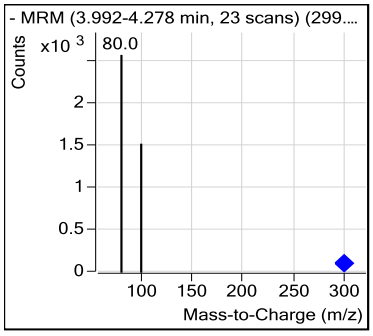


Perfluorinated Compounds by LC/MS/MS.

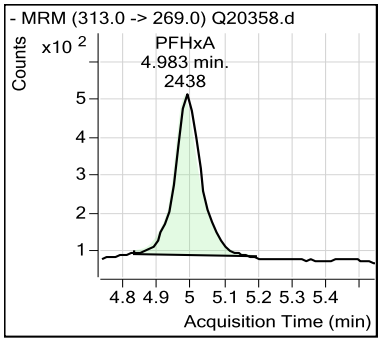
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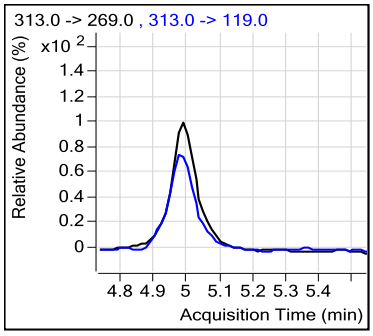


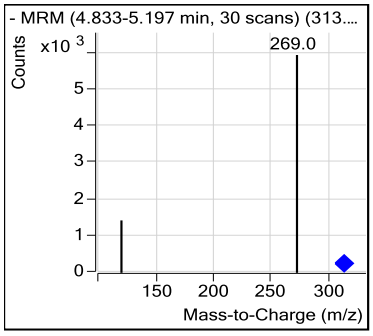




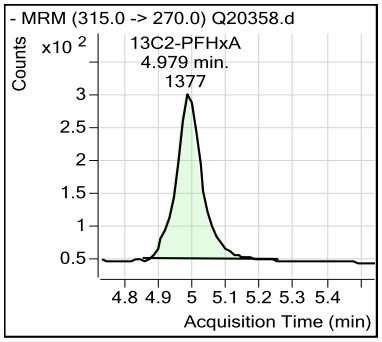
PFHxA

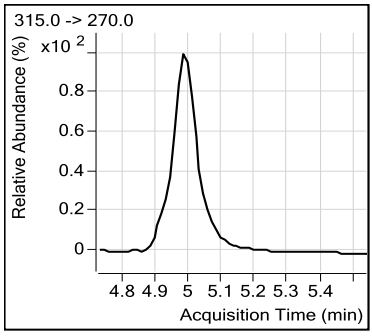


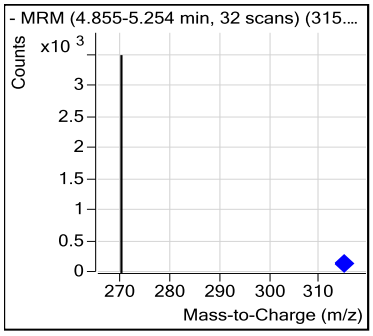




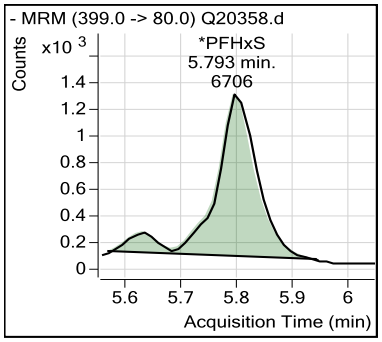
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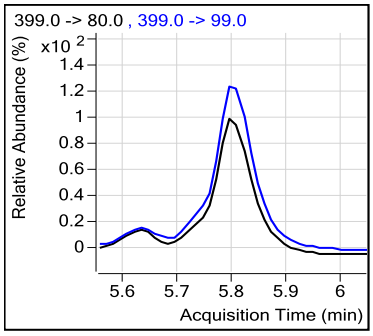


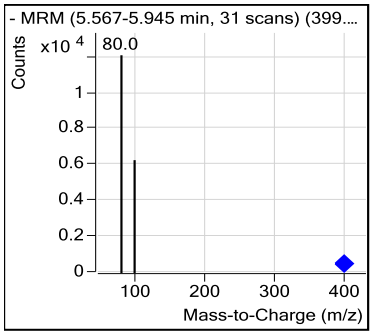




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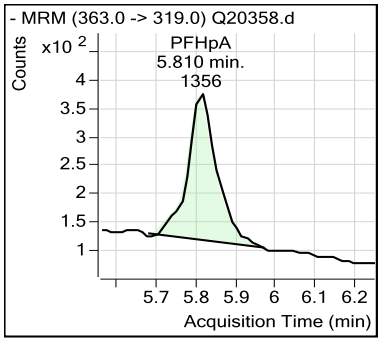


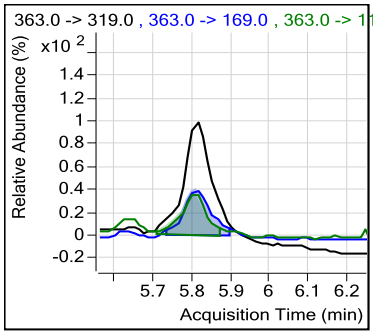


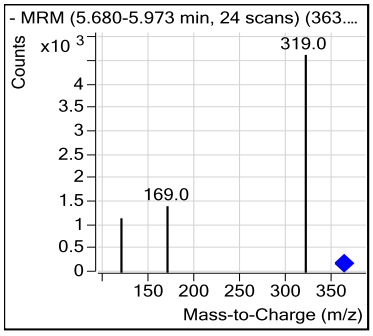


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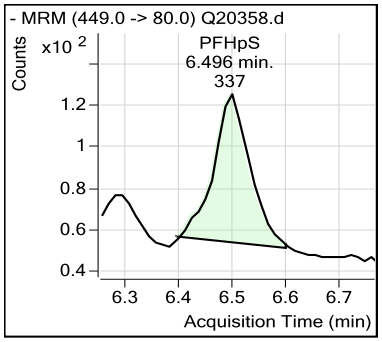
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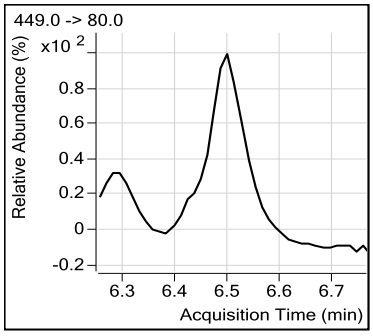


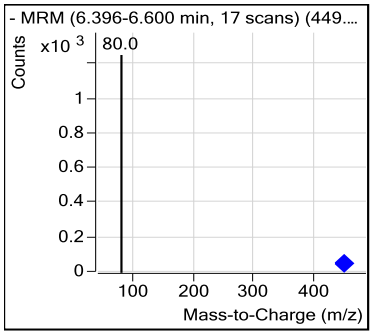




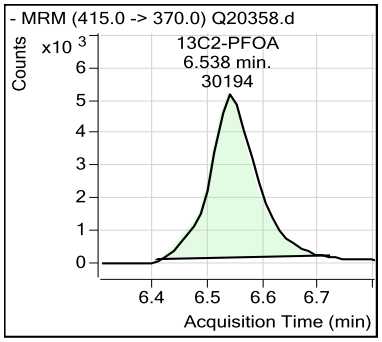
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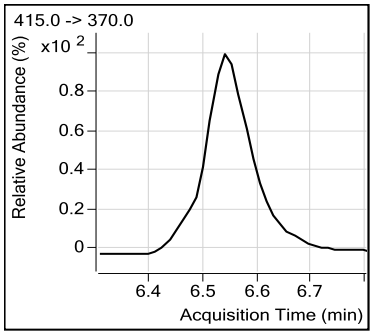


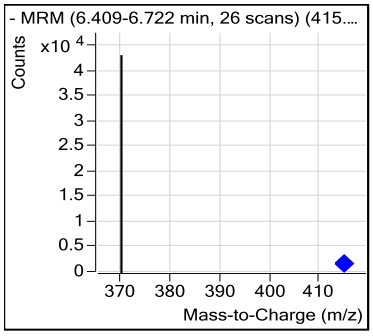




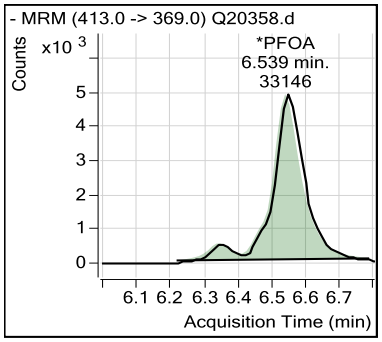
13C2-PFOA

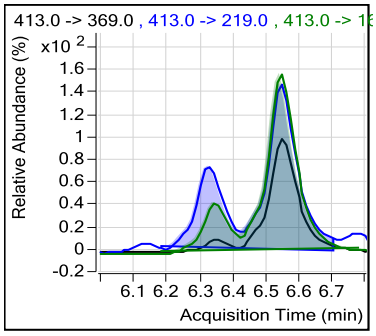


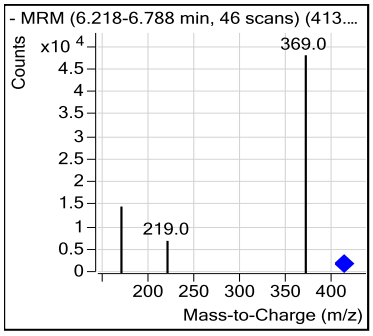




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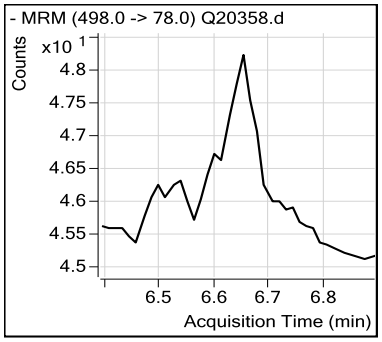


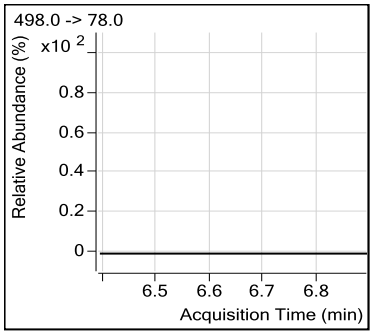


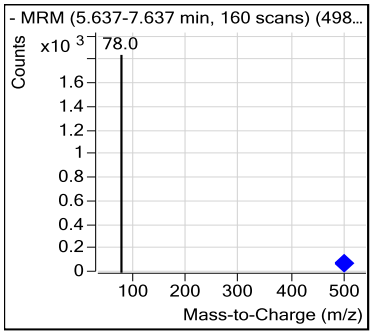


Perfluorinated Compounds by LC/MS/MS.

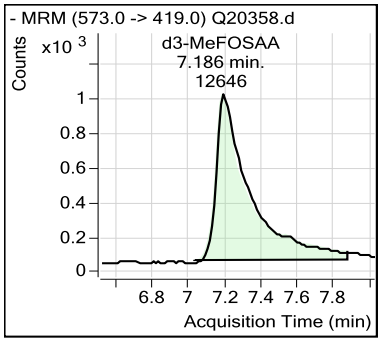
PFOSA

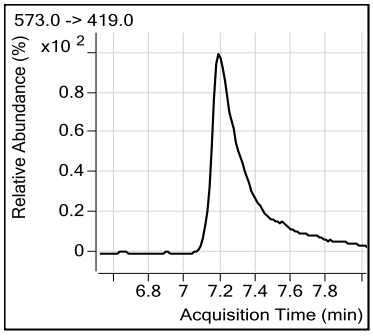


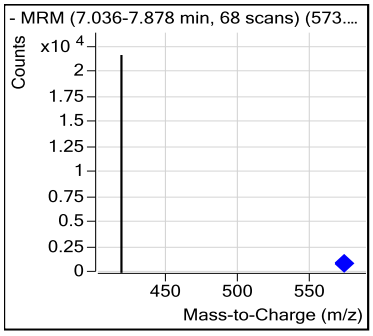




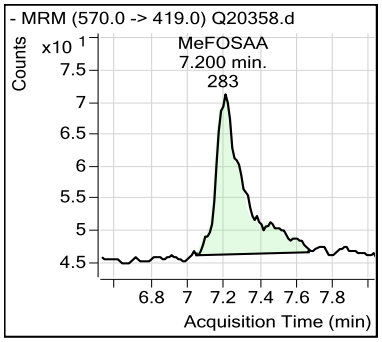
d3-MeFOSAA

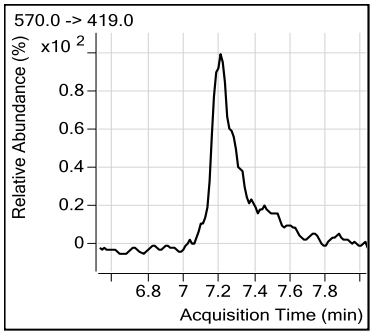


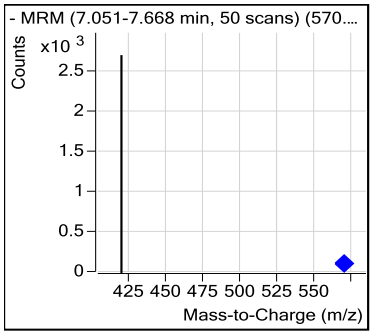




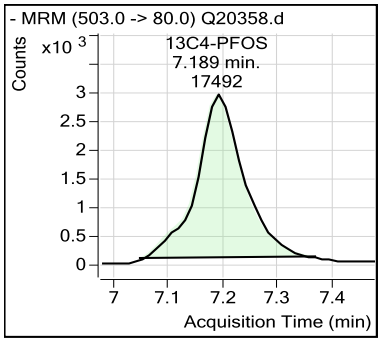
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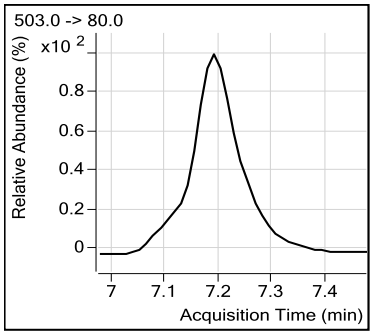


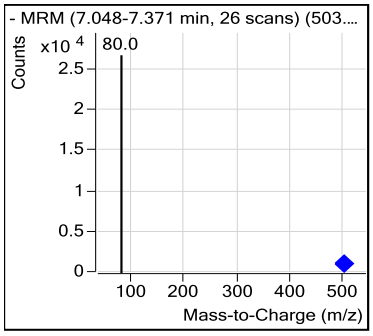




13C4-PFOS

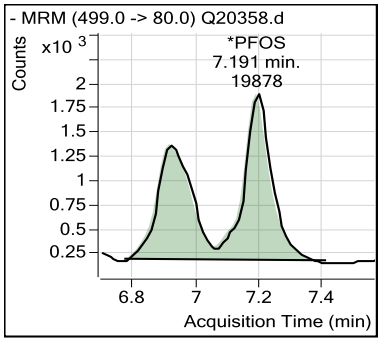


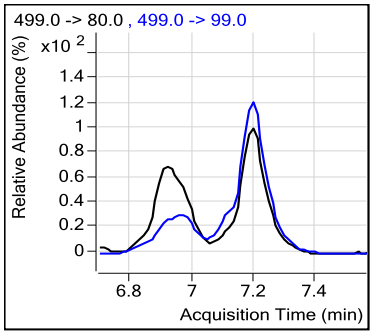


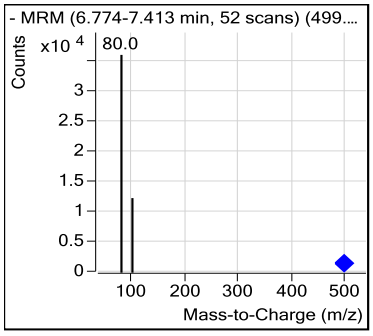


Perfluorinated Compounds by LC/MS/MS.

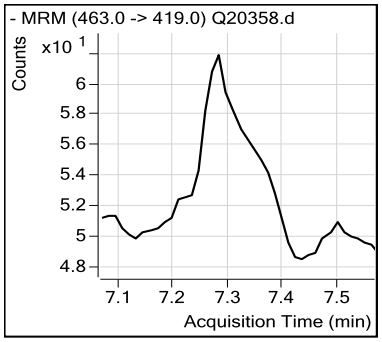
PFOS

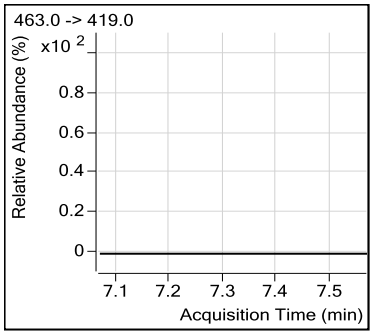


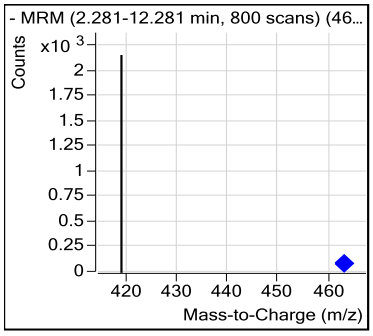




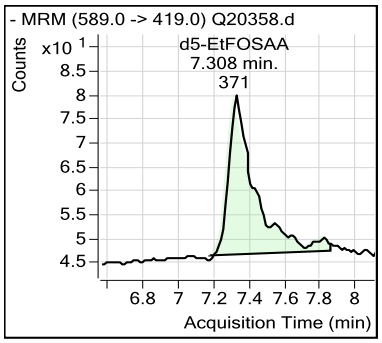
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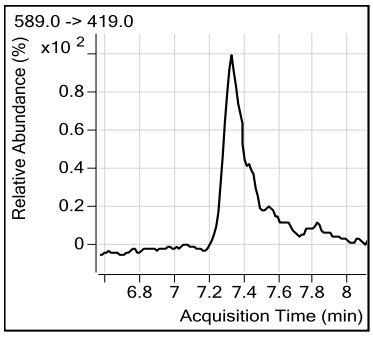


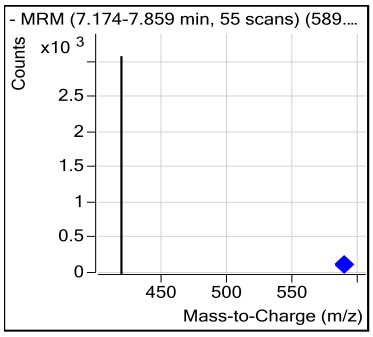




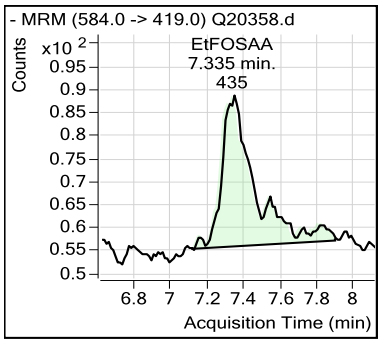
d5-EtFOSAA

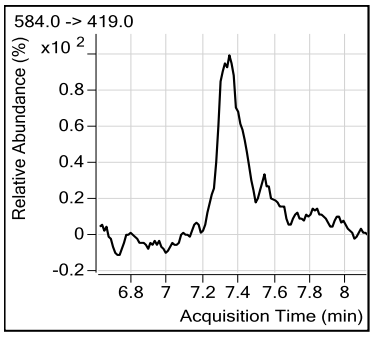


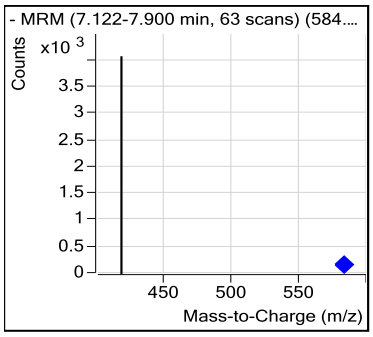




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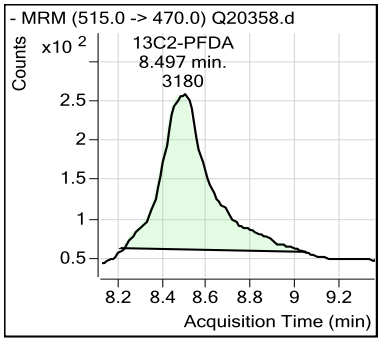


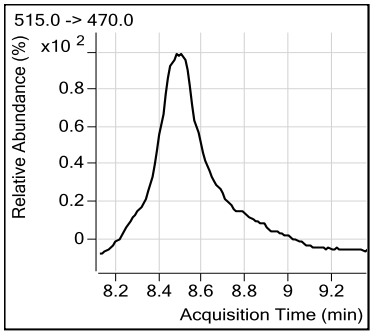


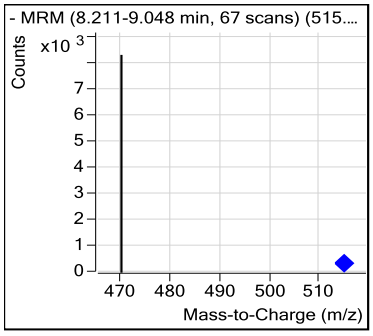


Perfluorinated Compounds by LC/MS/MS.

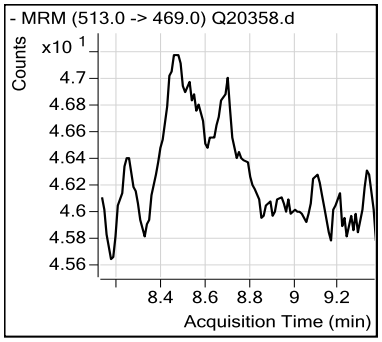
13C2-PFDA

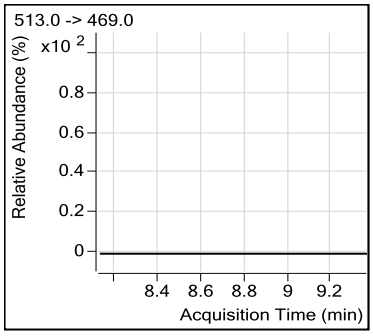


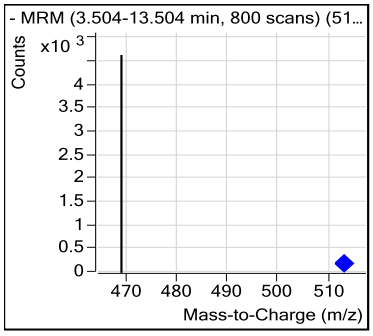




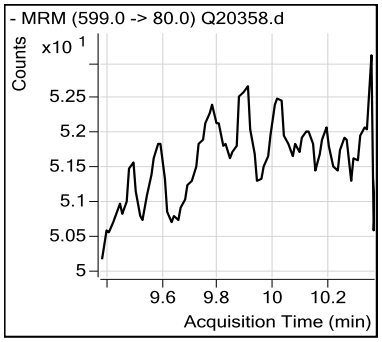
PFDA

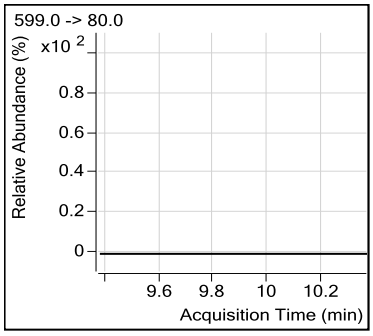


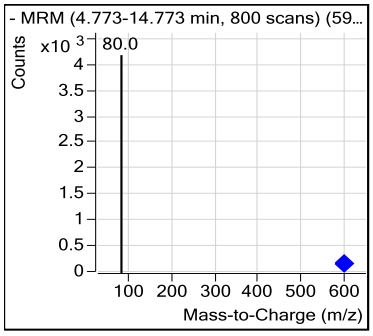




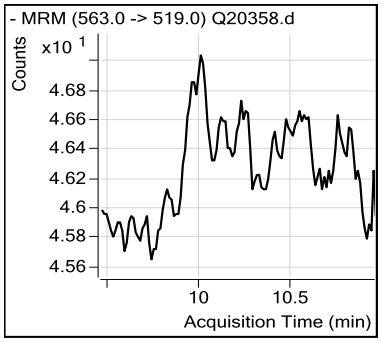
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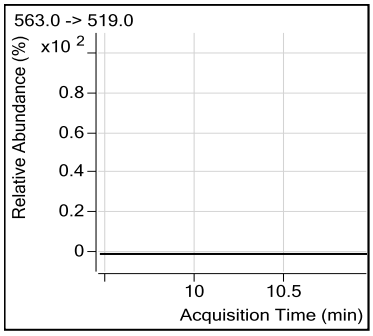


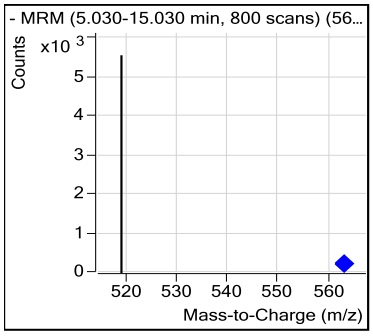




PFUnDA

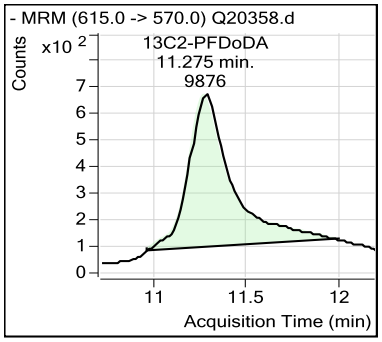


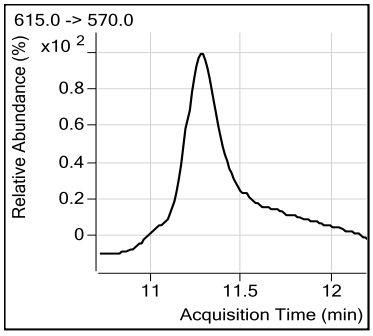


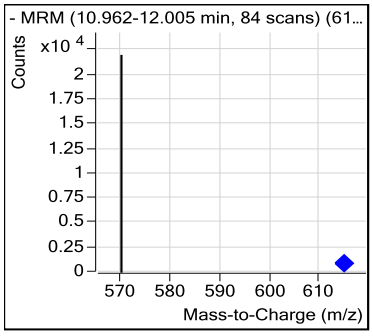


Perfluorinated Compounds by LC/MS/MS.

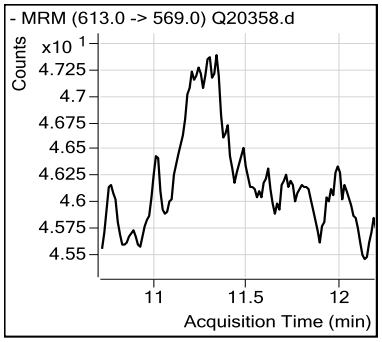
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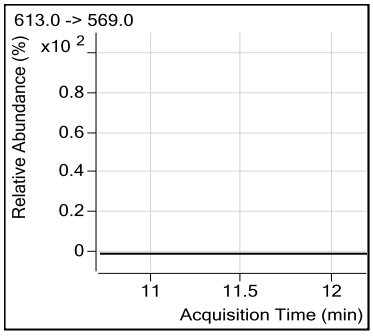


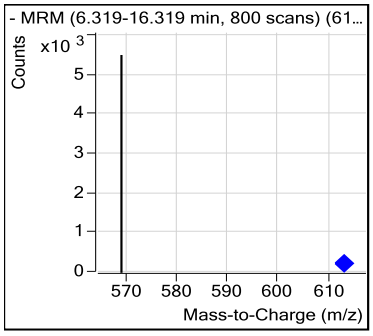




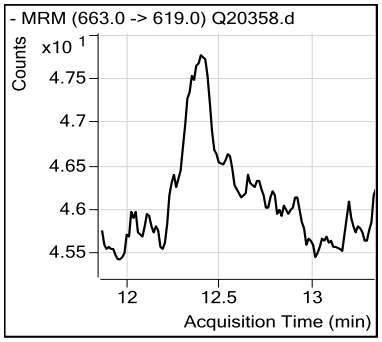
PFDoDA

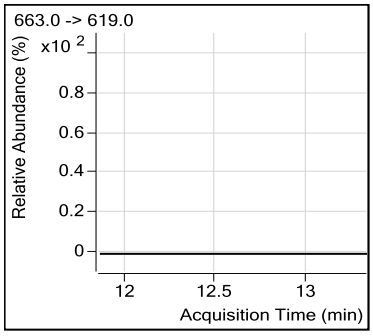


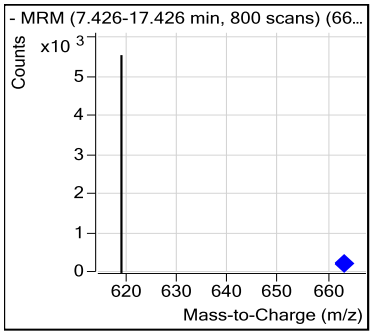




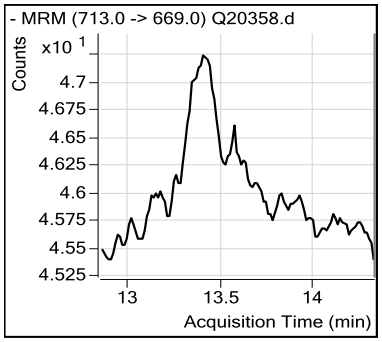
PFTrDA

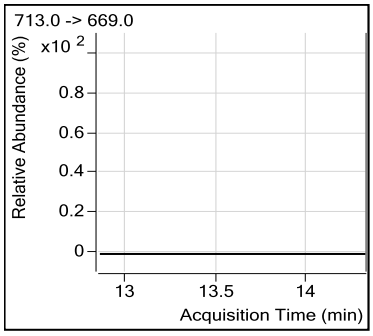


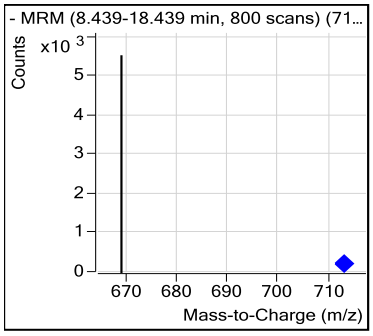




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-1	**Method:**	EPA 537 MOD
Lab FileID:	Q20358.D	**Analyst approved:**	04/14/16 16:24 Nancy Saunders
Injection Time:	04/14/16 11:34	**Supervisor approved:**	04/14/16 17:15 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.19	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

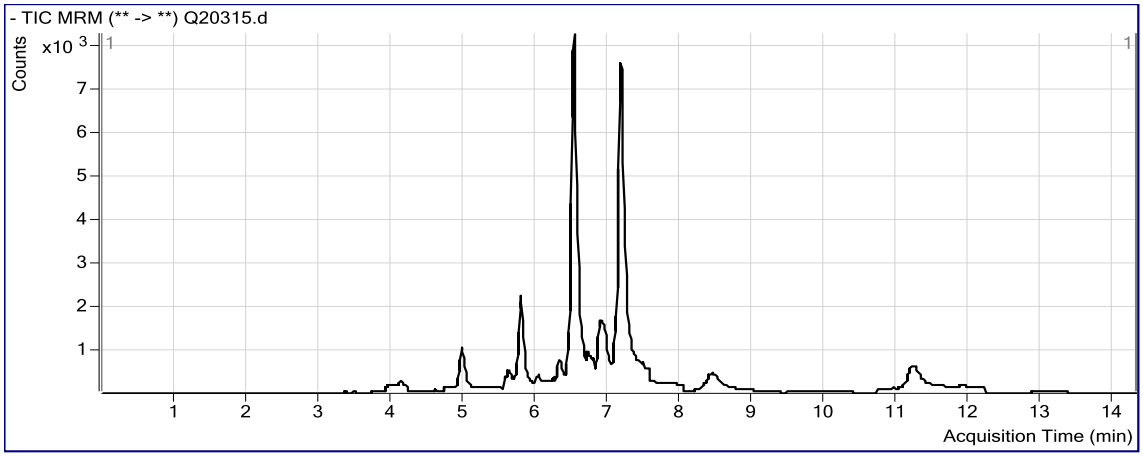
Data File	:	Q20315.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 15:24
Sample Name	:	FA32826-2
Vial	:	Vial 11
Sample Info	:	OP59984,SQ608,130,,,1.0,2,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.525	415.0 -> 370.0	25276	20.000	µg/L		-0.012
d3-MeFOSAA	7.186	573.0 -> 419.0	9416	40.000	µg/L		0.000
13C4-PFOS	7.164	503.0 -> 80.0	13788	20.000	µg/L		-0.025
13C2-PFDoDA	11.212	615.0 -> 570.0	9242	20.000	µg/L		-0.100
System Monitoring Compounds							
13C2-PFHxA	4.967	315.0 -> 270.0	2954	9.08	µg/L		-0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 45.40%				
d5-EtFOSAA	7.296	589.0 -> 419.0	167	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.422	515.0 -> 470.0	5958	7.67	µg/L		-0.075
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 38.34%				
Target Compounds							**Qvalue**
PFBA	3.465	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	3.974	263.0 -> 219.0	202	1.724	µg/L		100
PFBS	4.116	299.0 -> 80.0	439	1.888	µg/L		87
PFHxA	4.971	313.0 -> 269.0	1997	6.154	µg/L		99
PFHxS	5.780	399.0 -> 80.0	5762	14.192	µg/L	m	85
PFHpA	5.785	363.0 -> 319.0	1062	1.760	µg/L	#	70
PFOA	6.527	413.0 -> 369.0	17218	14.639	µg/L	# m	75
PFOS	7.166	499.0 -> 80.0	24351	34.200	µg/L	m	97
MeFOSAA	7.175	570.0 -> 419.0	265	0.000	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	396	0.000	µg/L		100

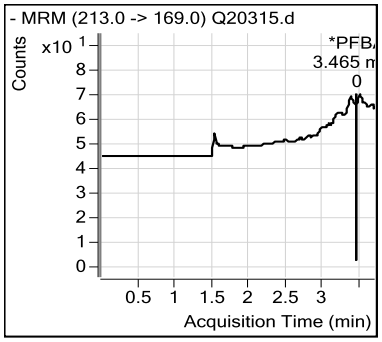
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

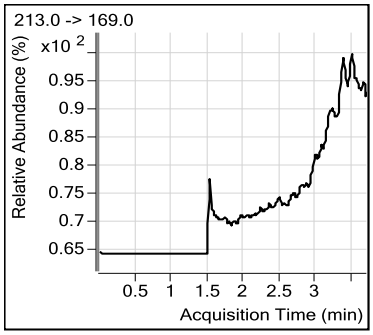
Perfluorinated Compounds by LC/MS/MS.

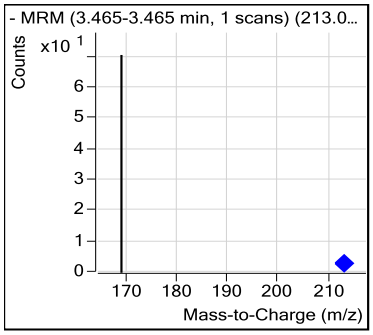
Data File	:	Q20315.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 15:24
Sample Name	:	FA32826-2
Vial	:	Vial 11
Sample Info	:	OP59984,SQ608,130,,,1.0,2,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



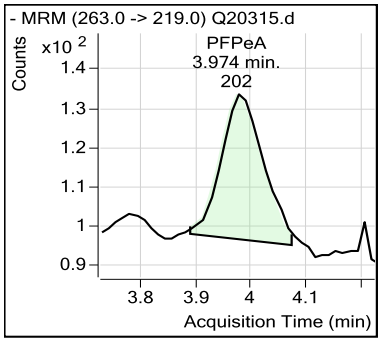
PFBA

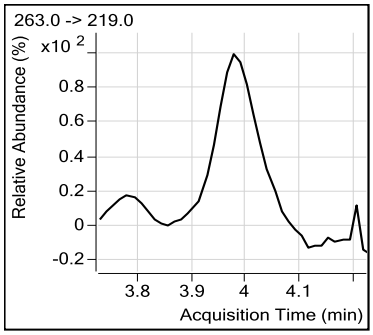


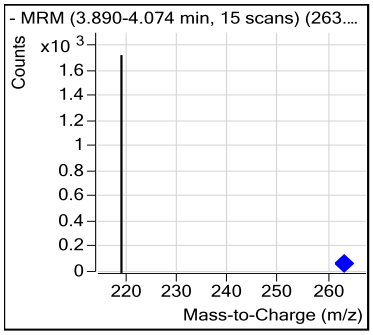




PFPeA

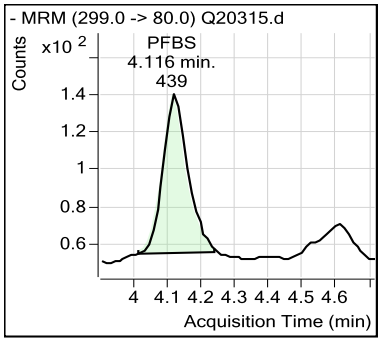


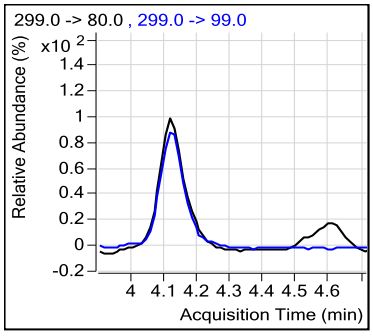


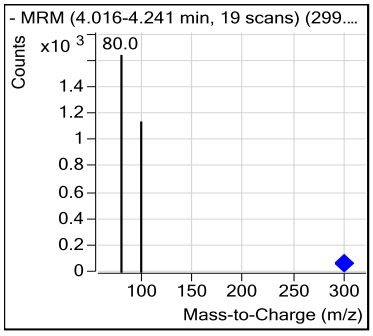


Perfluorinated Compounds by LC/MS/MS.

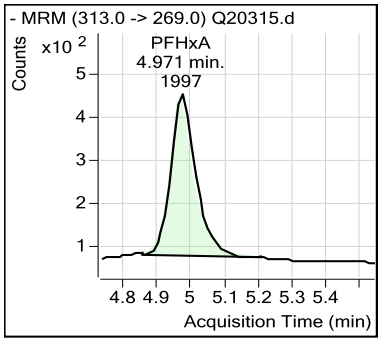
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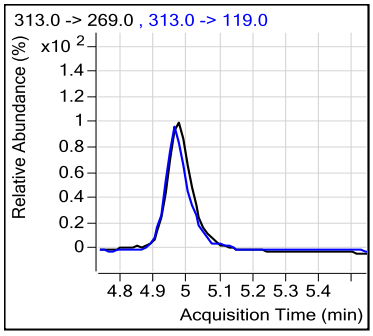


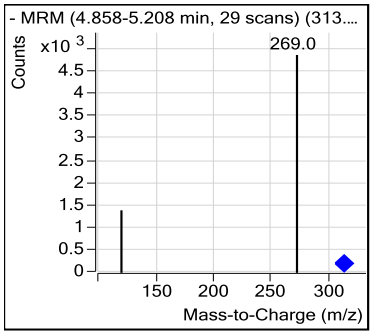




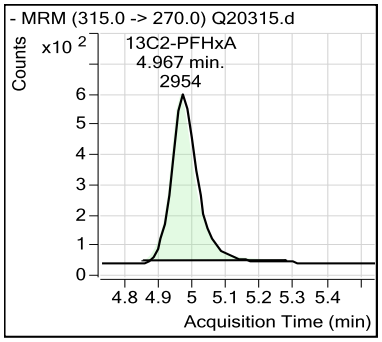
PFHxA

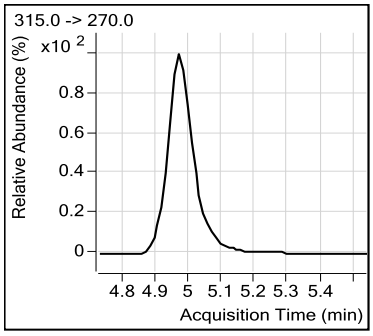


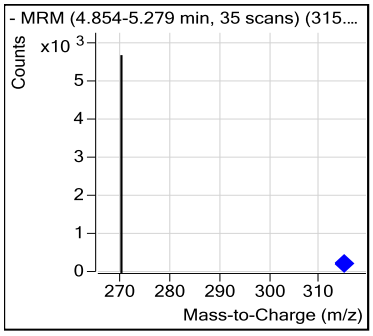




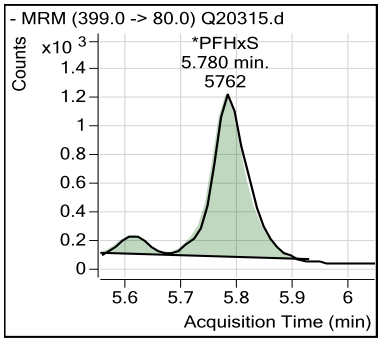
13C2-PFHxA

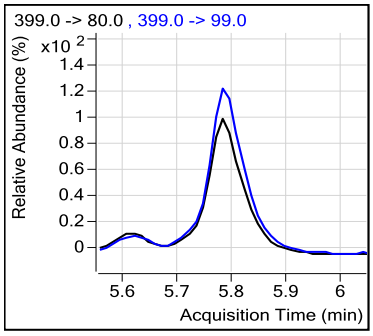


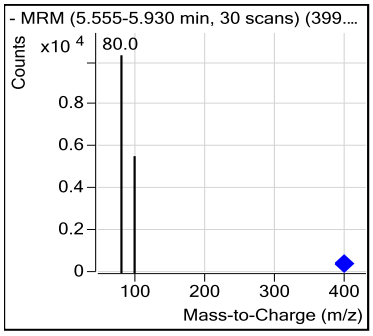




PFHxS

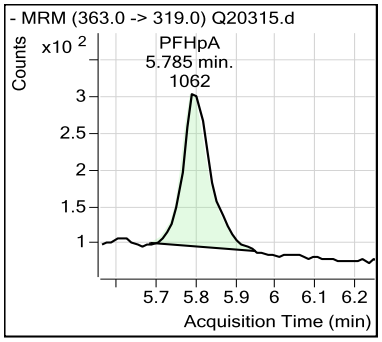


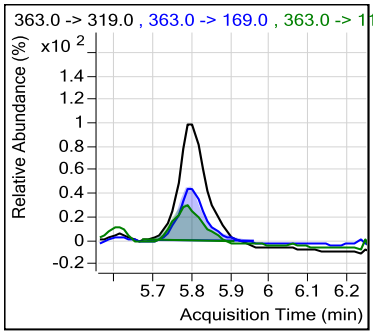


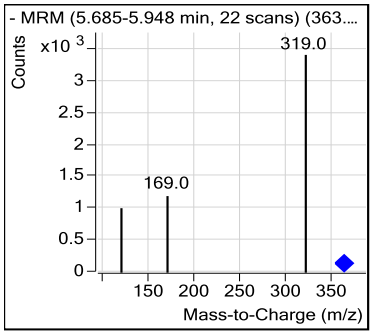


Perfluorinated Compounds by LC/MS/MS.

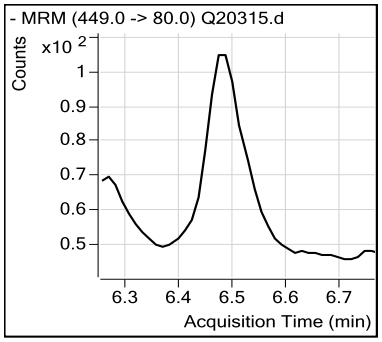
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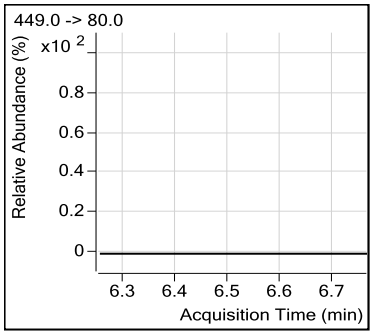


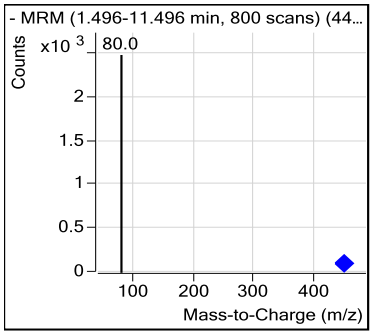




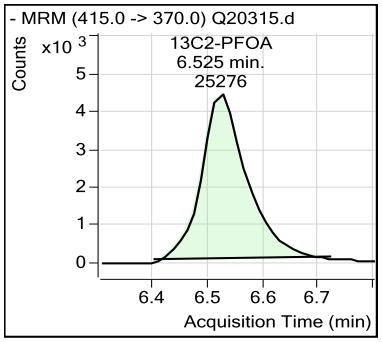
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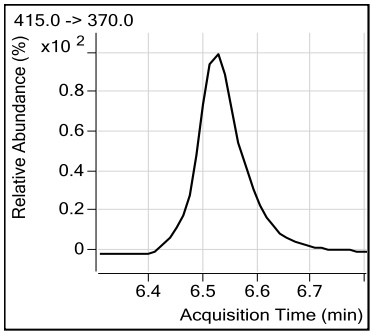


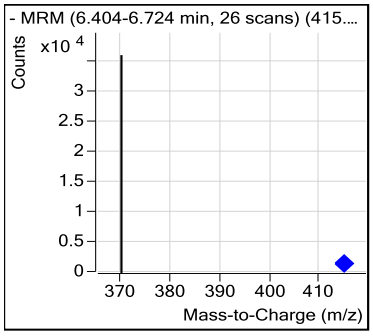




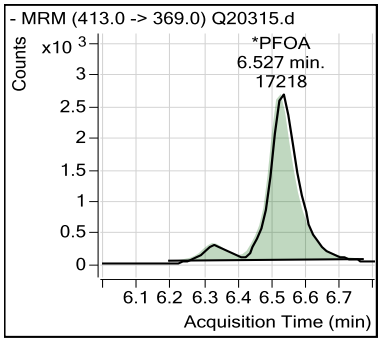
13C2-PFOA

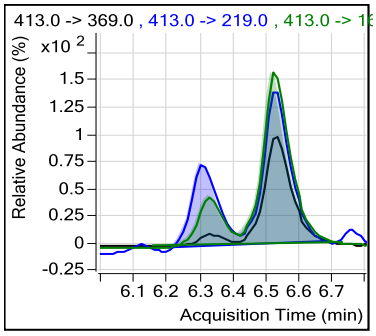


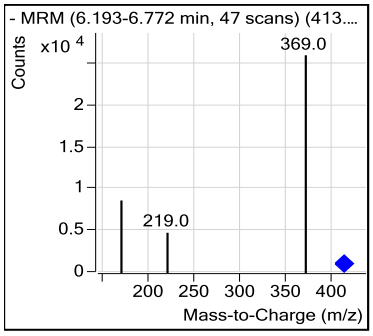




PFOA

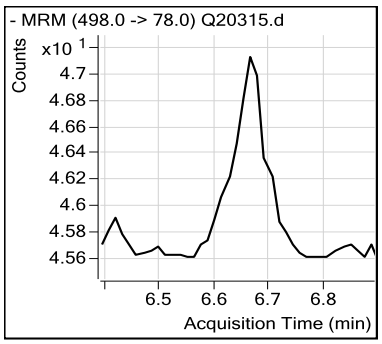


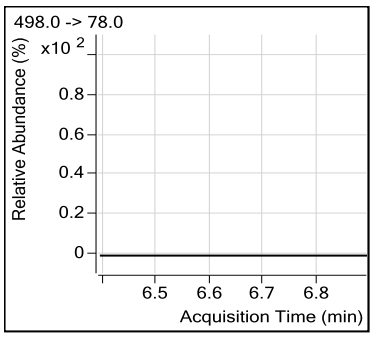


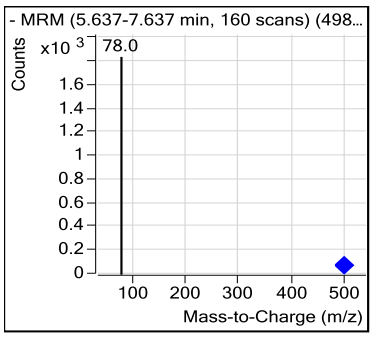


Perfluorinated Compounds by LC/MS/MS.

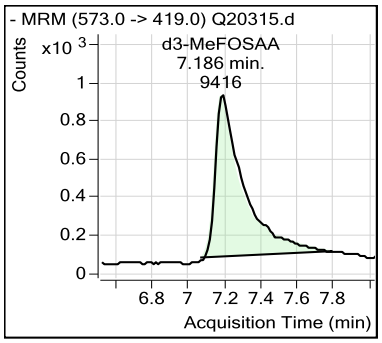
PFOSA

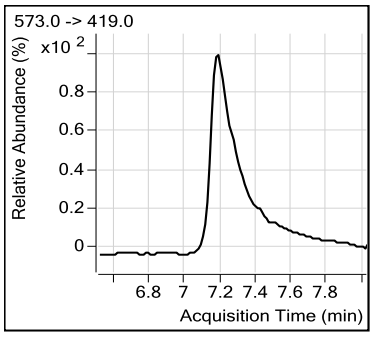


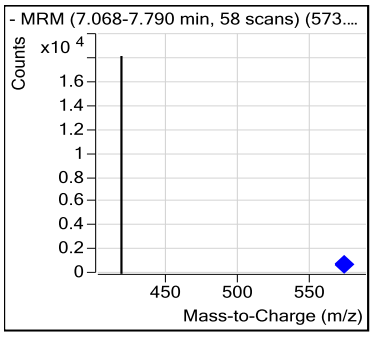




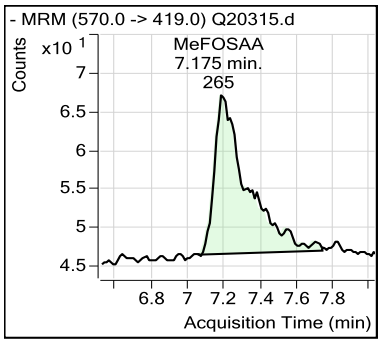
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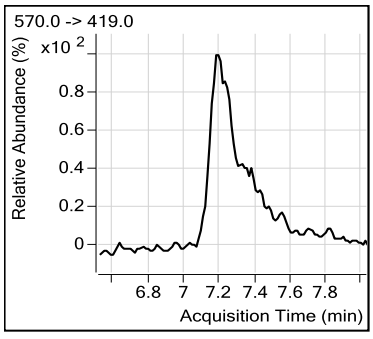


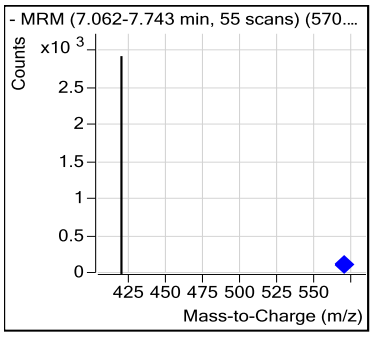




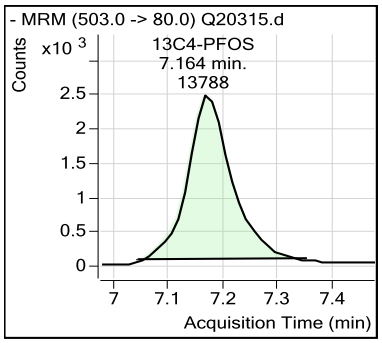
MeFOSAA

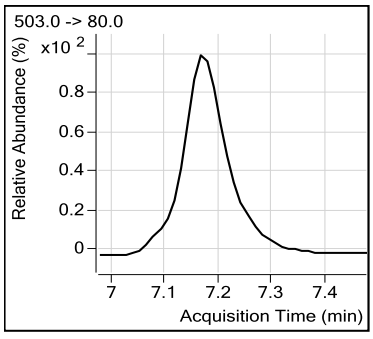


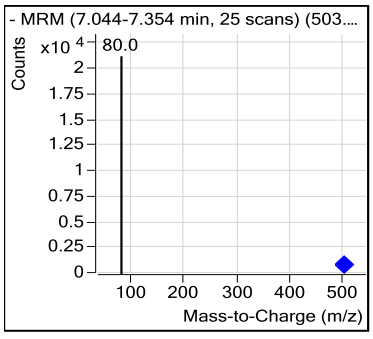




13C4-PFOS

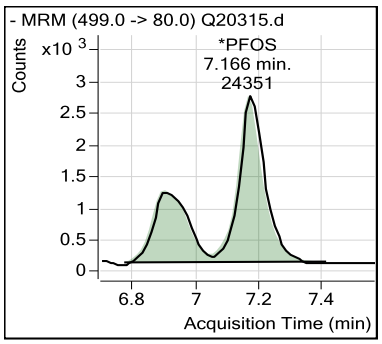


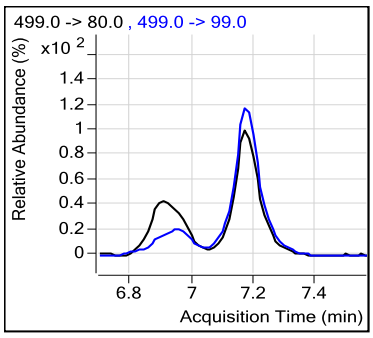


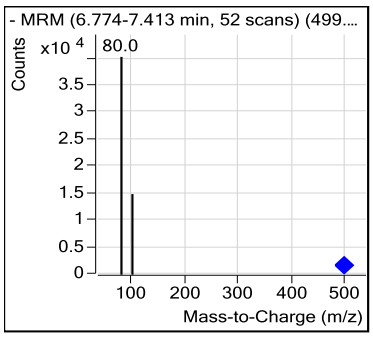


Perfluorinated Compounds by LC/MS/MS.

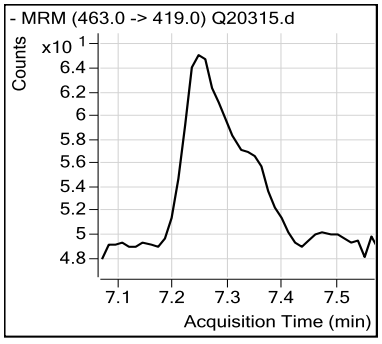
PFOS

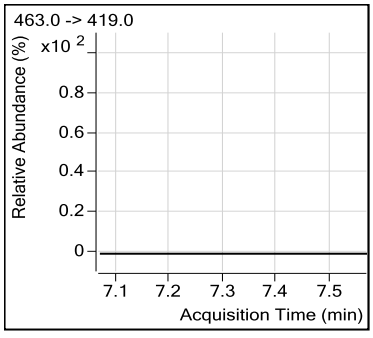


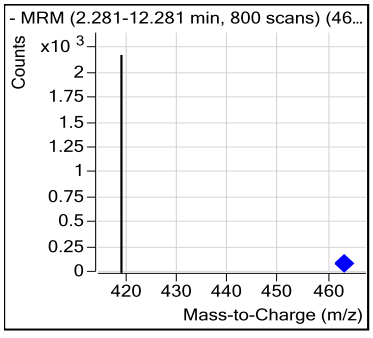




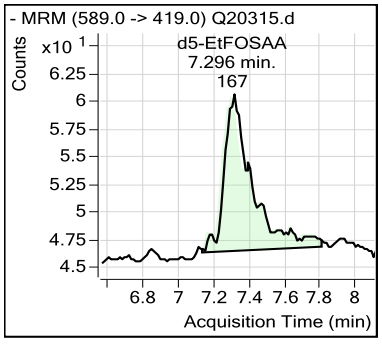
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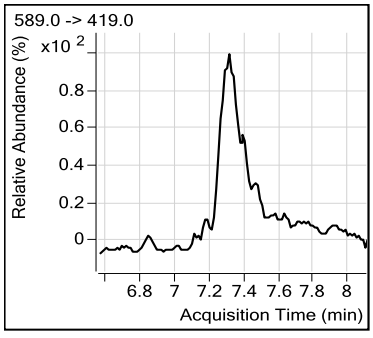


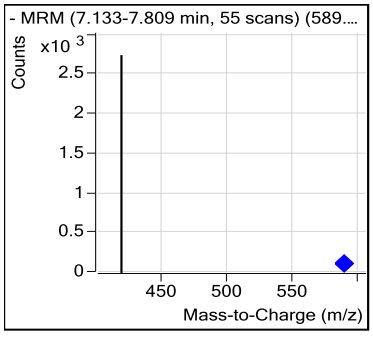




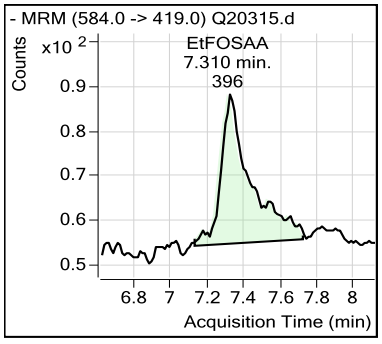
d5-EtFOSAA

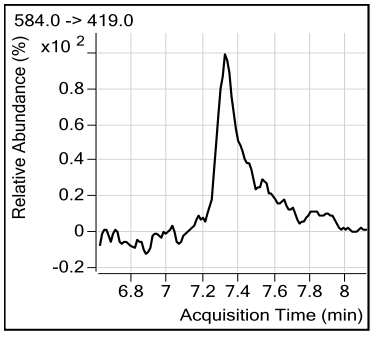


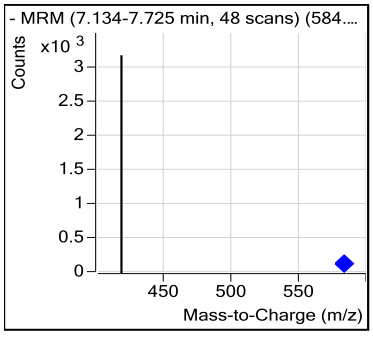




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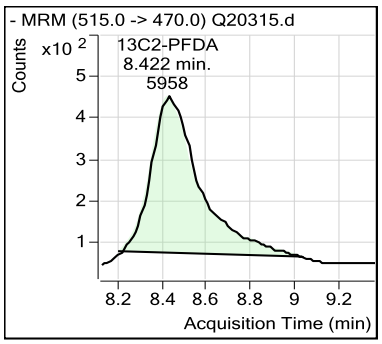


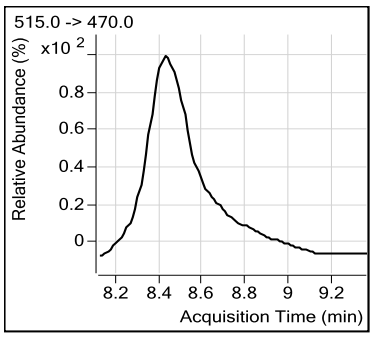


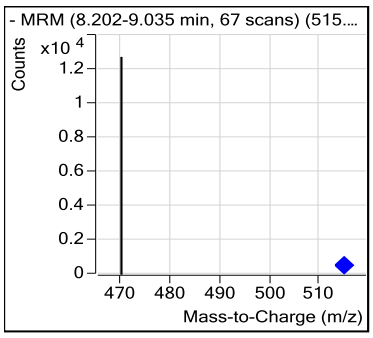


Perfluorinated Compounds by LC/MS/MS.

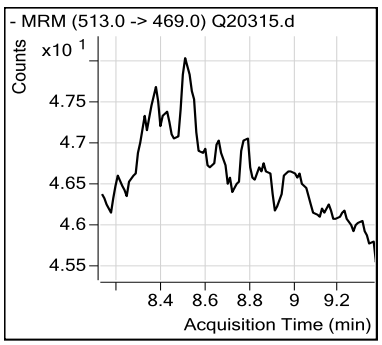
13C2-PFDA

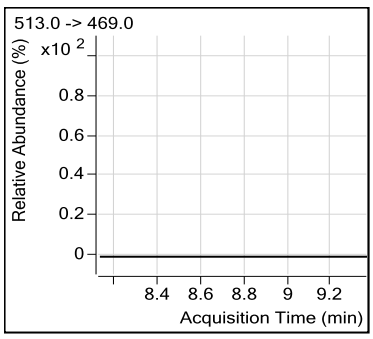


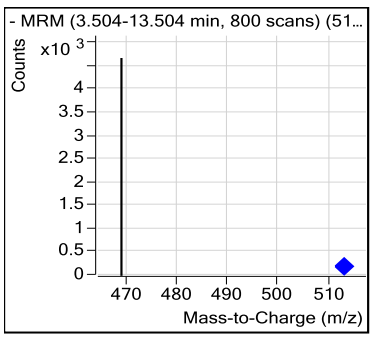




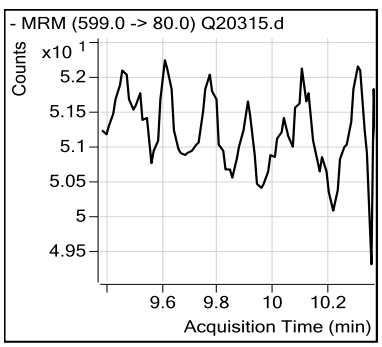
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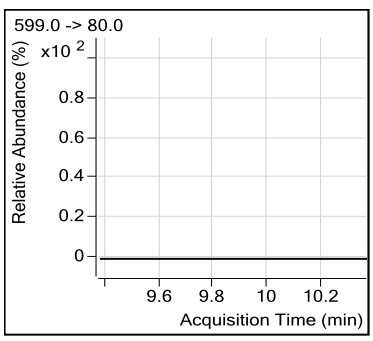


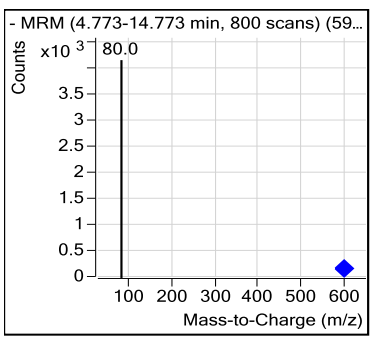




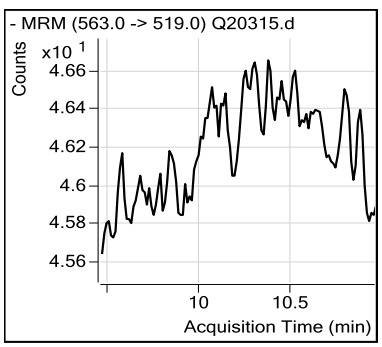
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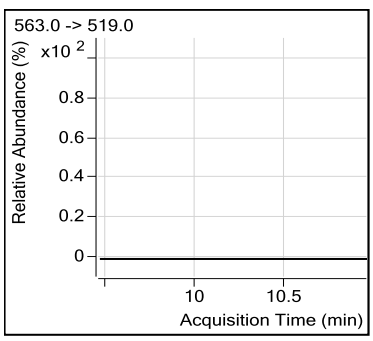


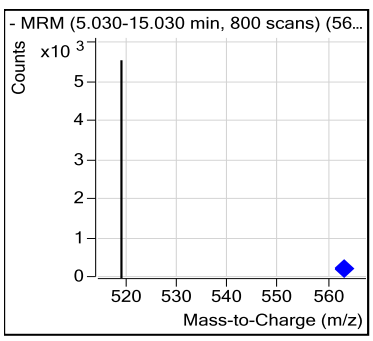




PFUnDA

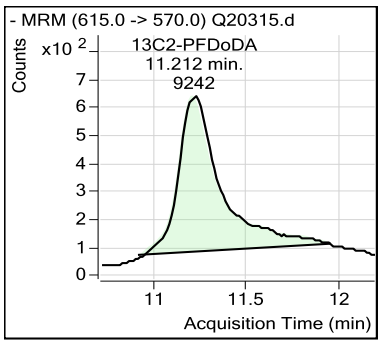


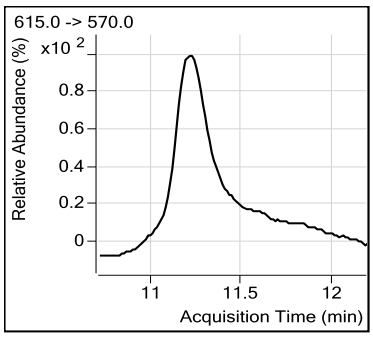


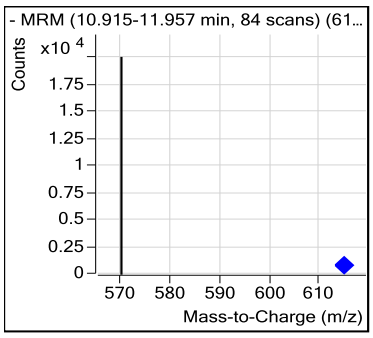


Perfluorinated Compounds by LC/MS/MS.

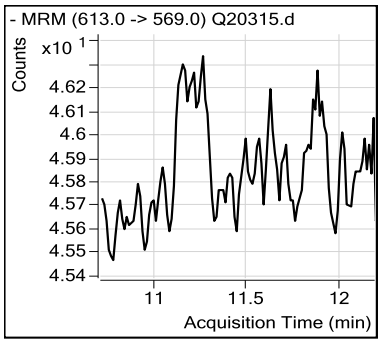
13C2-PFDoDA

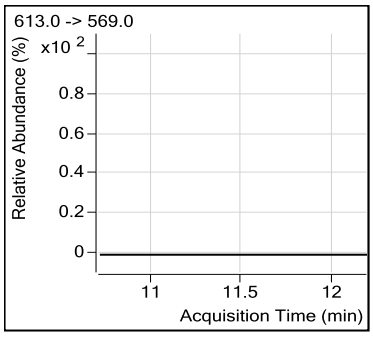


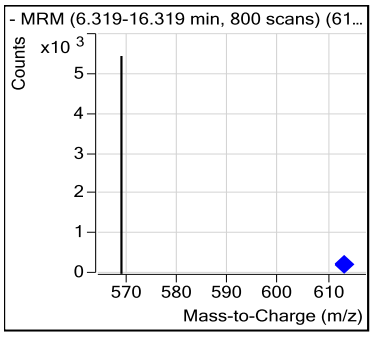




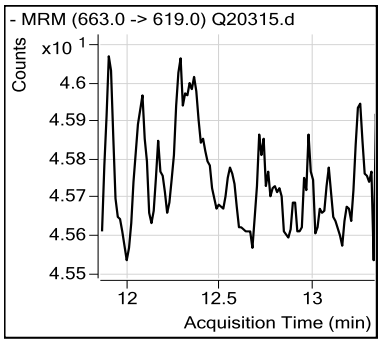
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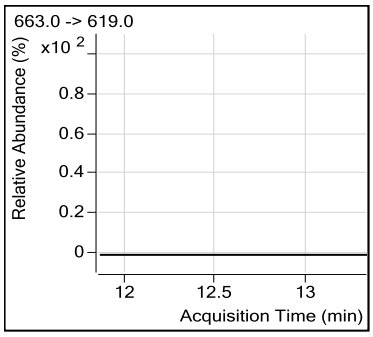


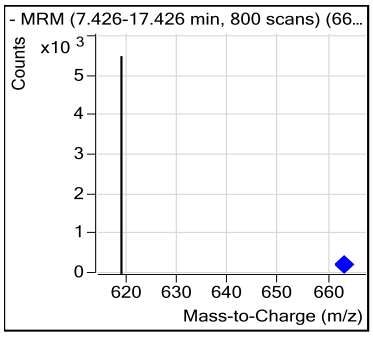




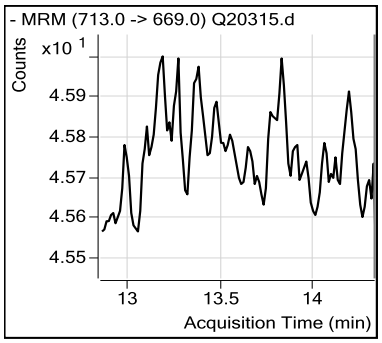
PFTrDA

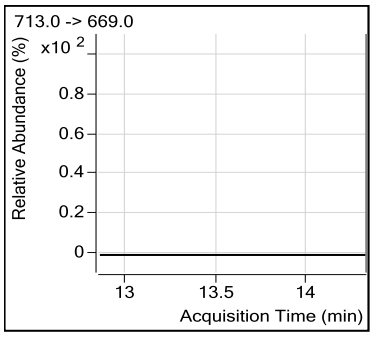


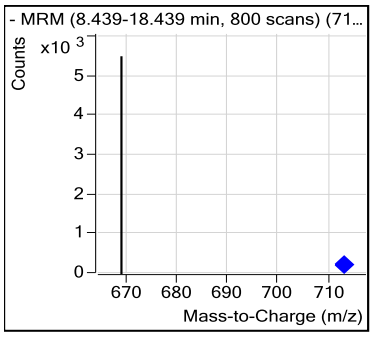




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-2	**Method:**	EPA 537 MOD
Lab FileID:	Q20315.D	**Analyst approved:**	04/14/16 13:33 Nancy Saunders
Injection Time:	04/13/16 15:24	**Supervisor approved:**	04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.78	Split peak
Perfluorooctanoic acid	335-67-1		6.53	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.17	Split peak

Perfluorinated Compounds by LC/MS/MS.

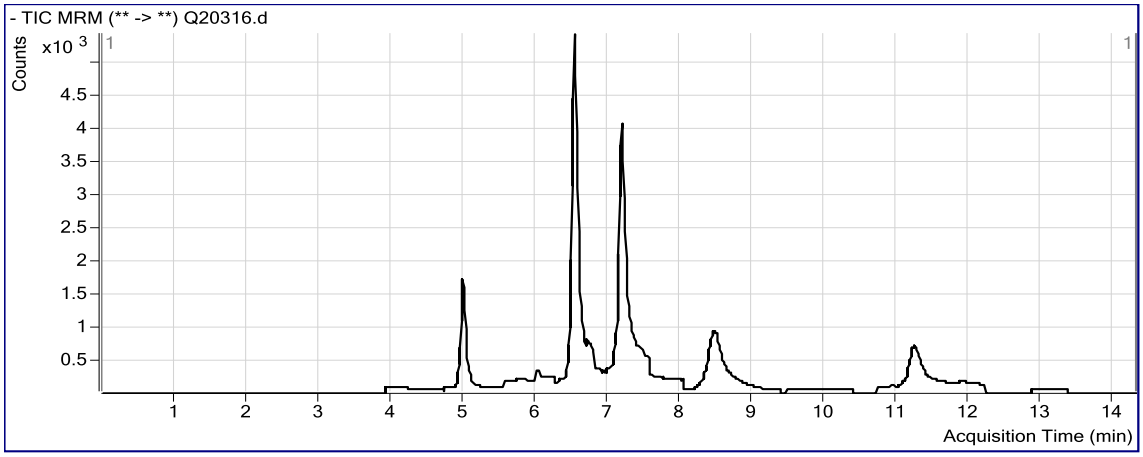
Data File	:	Q20316.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 15:45
Sample Name	:	FA32826-3
Vial	:	Vial 12
Sample Info	:	OP59984,SQ608,120,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
13C2-PFOA	6.538	415.0 -> 370.0	28915	20.000	µg/L	0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	9702	40.000	µg/L	0.000
13C4-PFOS	7.177	503.0 -> 80.0	15469	20.000	µg/L	-0.012
13C2-PFDoDA	11.225	615.0 -> 570.0	9981	20.000	µg/L	-0.087
System Monitoring Compounds						
13C2-PFHxA	4.979	315.0 -> 270.0	8318	22.35	µg/L	-0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 111.76%			
d5-EtFOSAA	7.308	589.0 -> 419.0	132	0.00	µg/L	0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%			
13C2-PFDA	8.460	515.0 -> 470.0	13192	14.84	µg/L	-0.037
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 74.20%			
Target Compounds						**Qvalue**
MeFOSAA	7.175	570.0 -> 419.0	180	0.000	µg/L	100
EtFOSAA	7.310	584.0 -> 419.0	236	0.000	µg/L	100

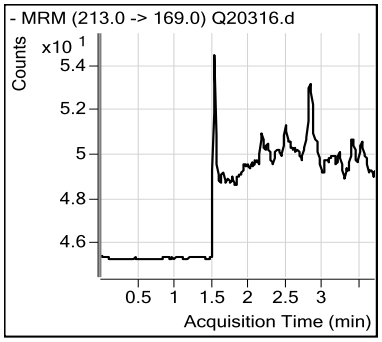
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

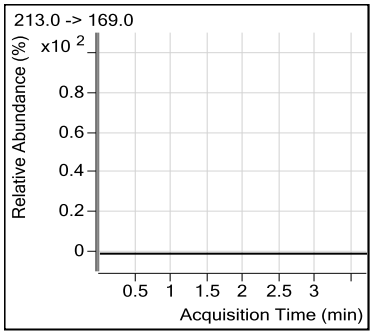
Perfluorinated Compounds by LC/MS/MS.

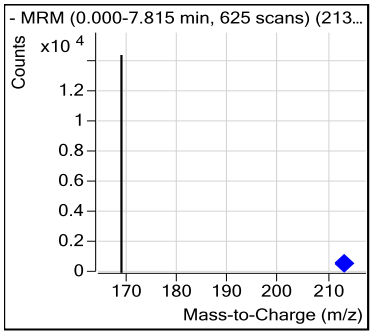
Data File	:	Q20316.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 15:45
Sample Name	:	FA32826-3
Vial	:	Vial 12
Sample Info	:	OP59984,SQ608,120,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



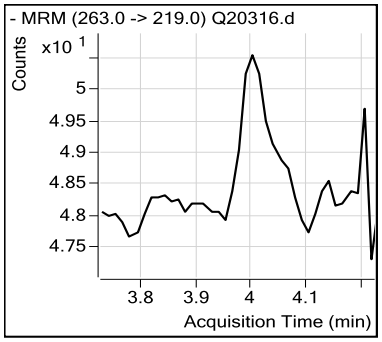
PFBA

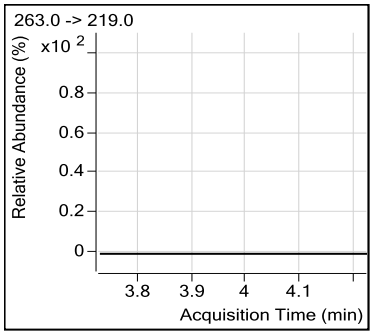


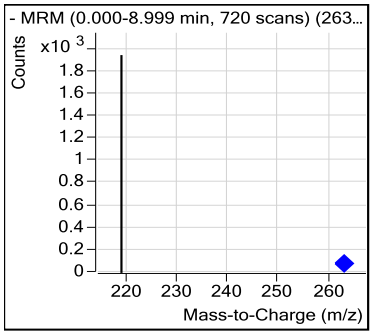




PFPeA

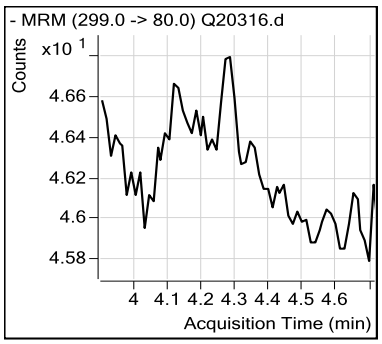


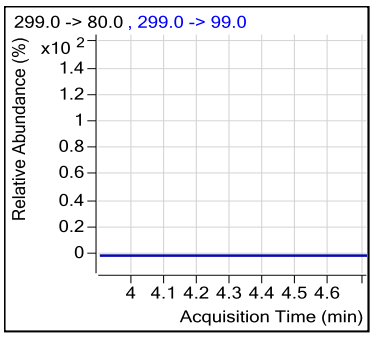


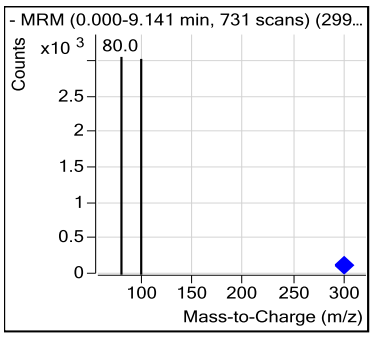


Perfluorinated Compounds by LC/MS/MS.

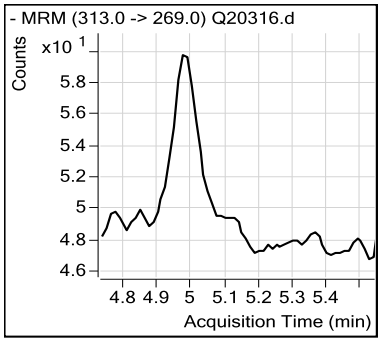
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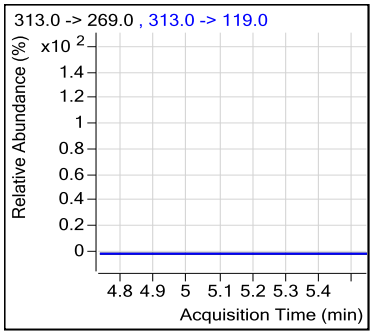


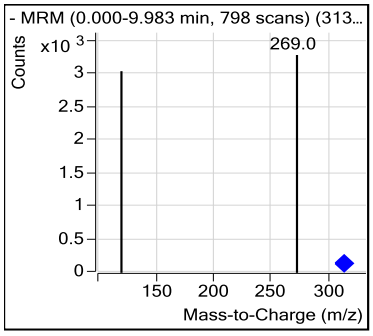




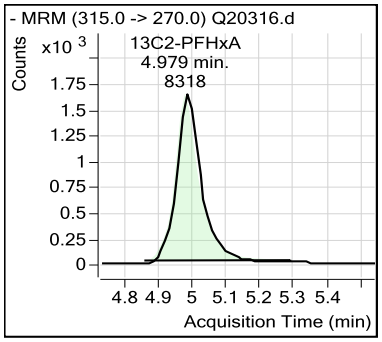
PFHxA

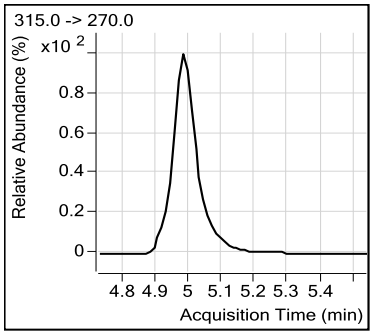


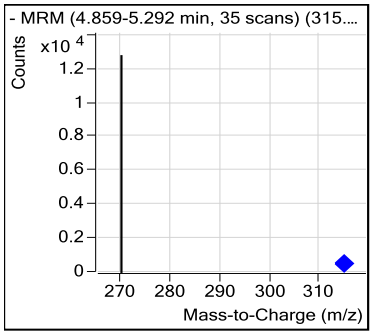




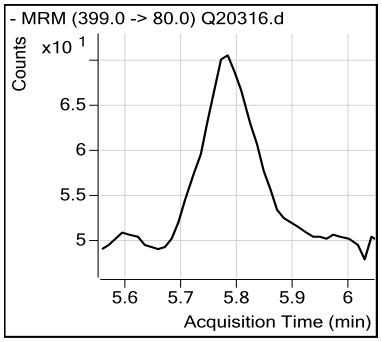
13C2-PFHxA

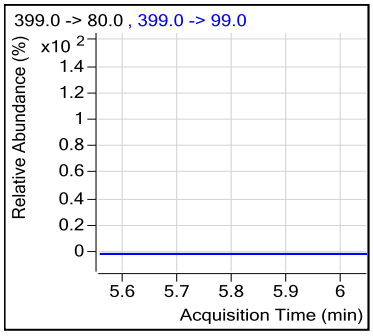


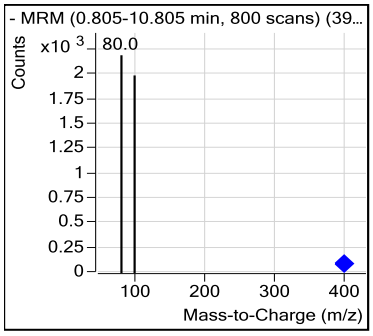




PFHxS

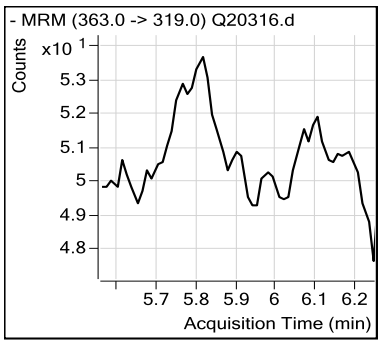


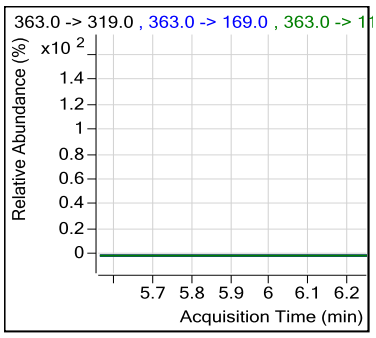


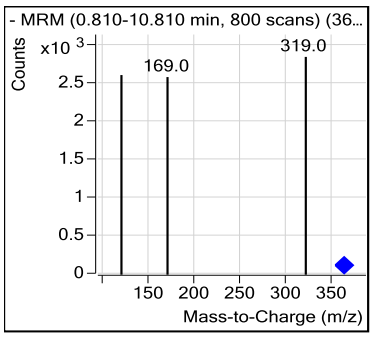


Perfluorinated Compounds by LC/MS/MS.

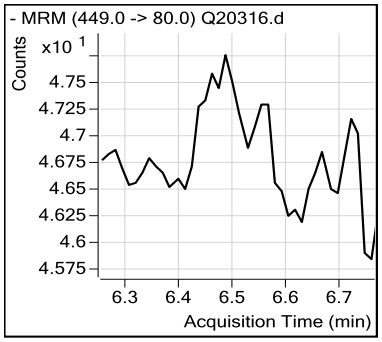
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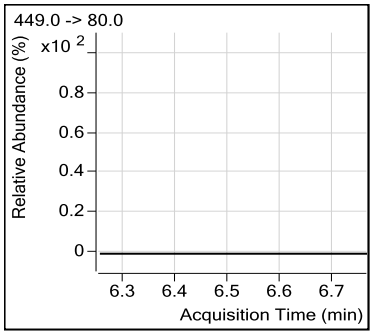


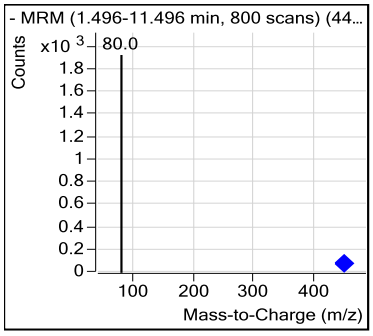




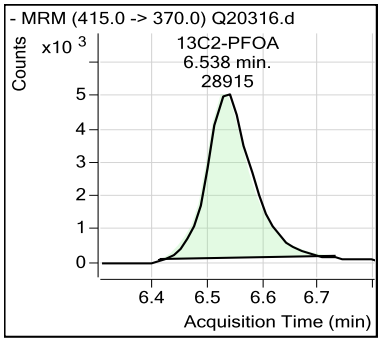
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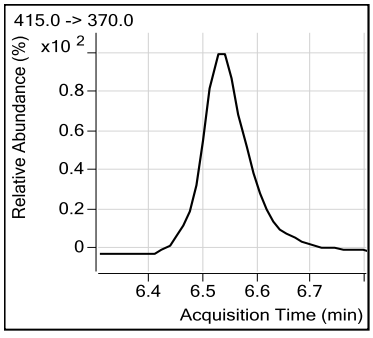


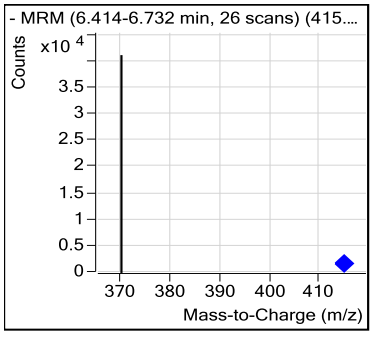




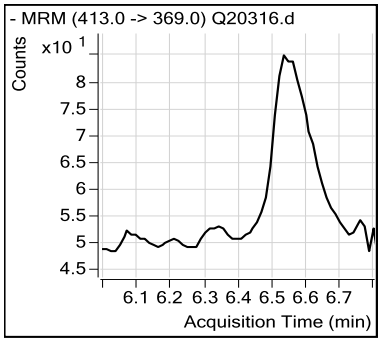
13C2-PFOA

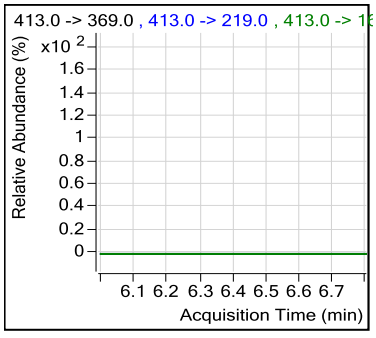


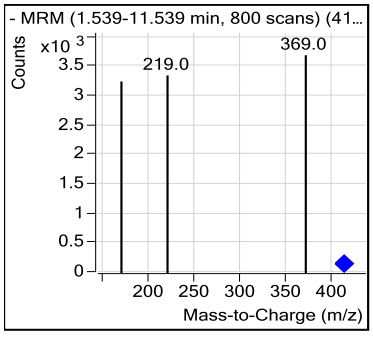




PFOA





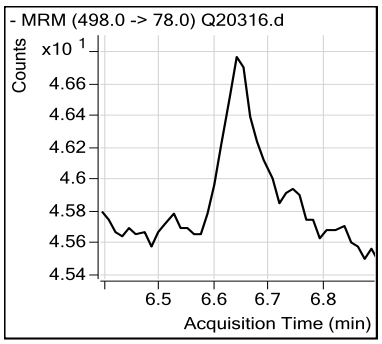


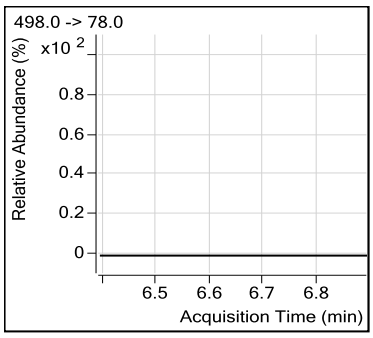
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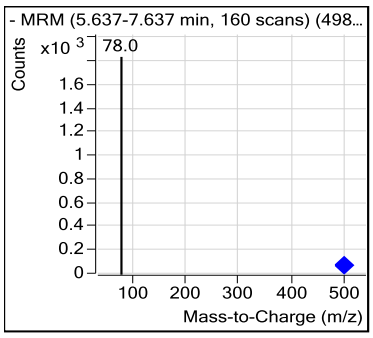
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Perfluorinated Compounds by LC/MS/MS.

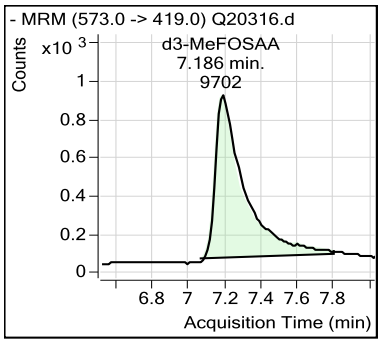
PFOSA

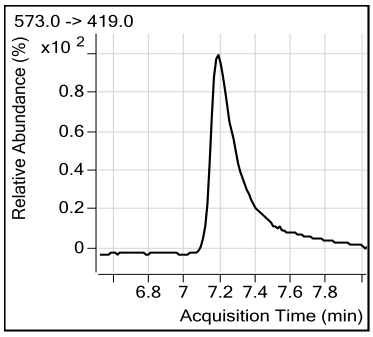


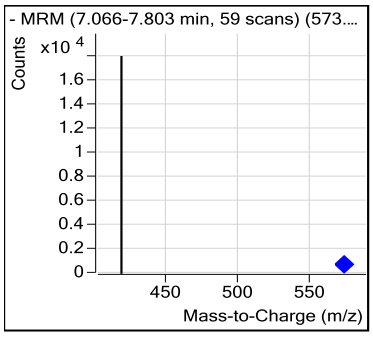




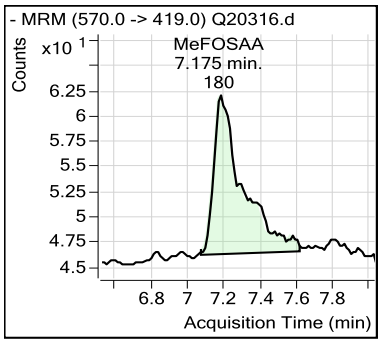
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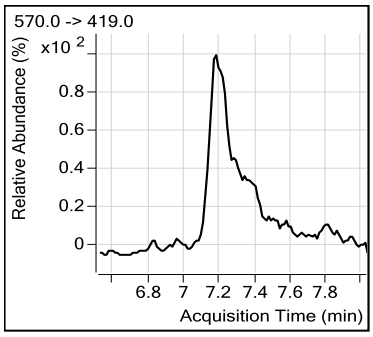


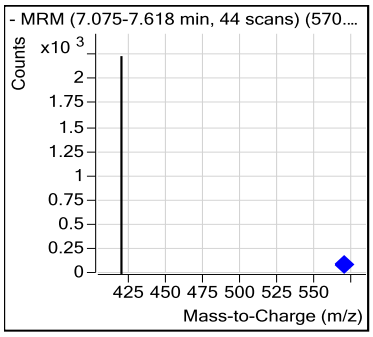




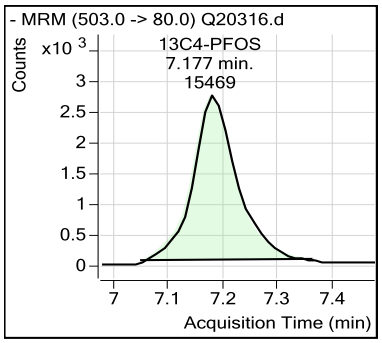
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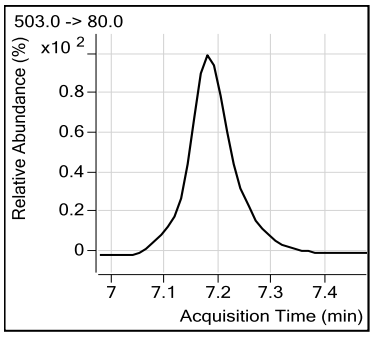


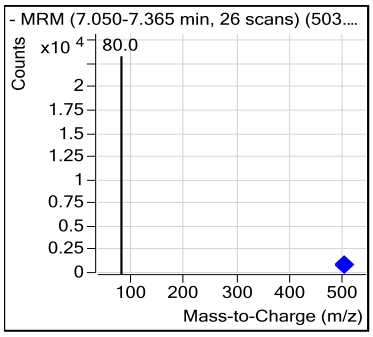




13C4-PFOS

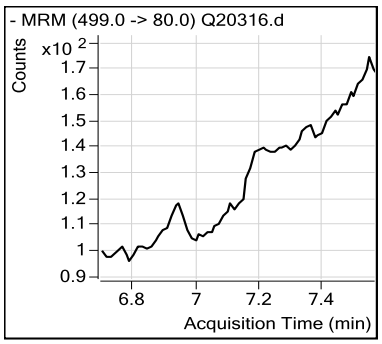


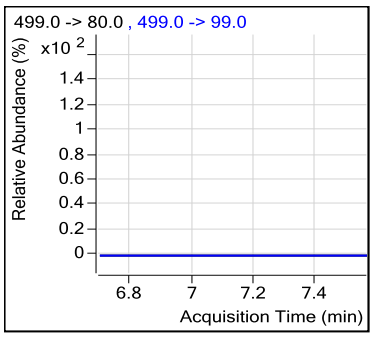


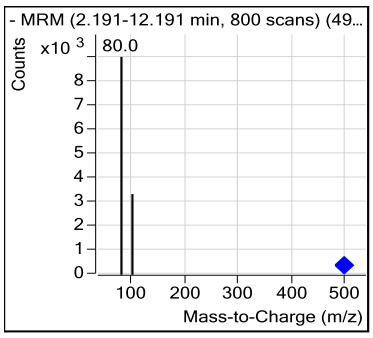


Perfluorinated Compounds by LC/MS/MS.

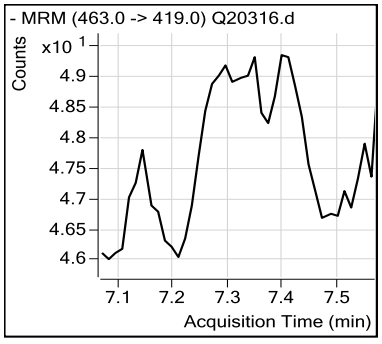
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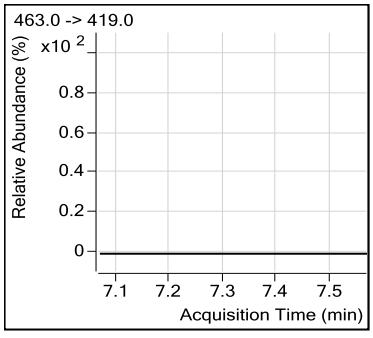


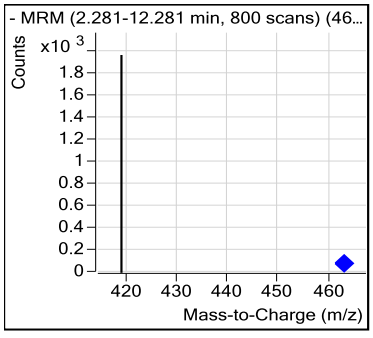




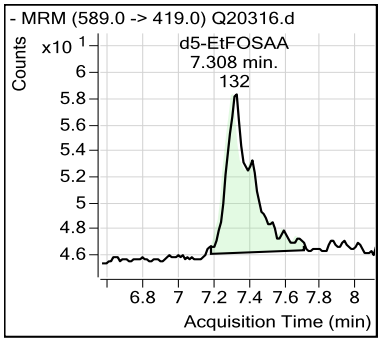
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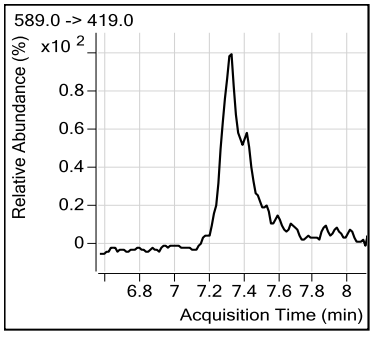


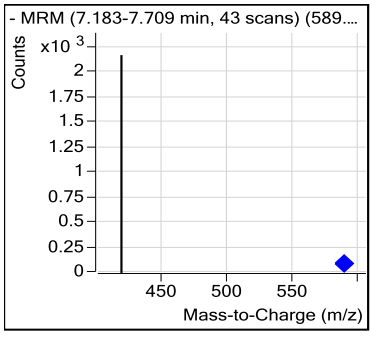




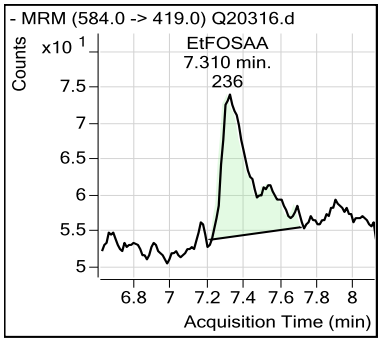
d5-EtFOSAA

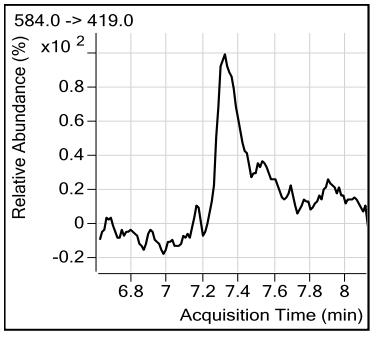


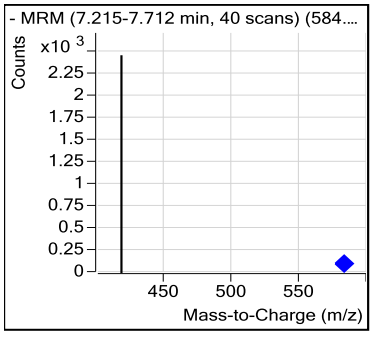




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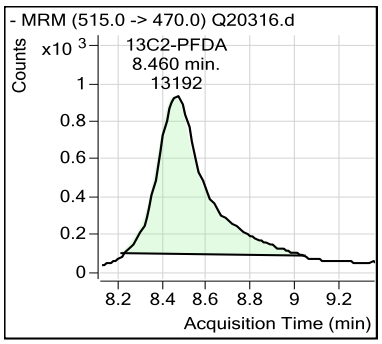


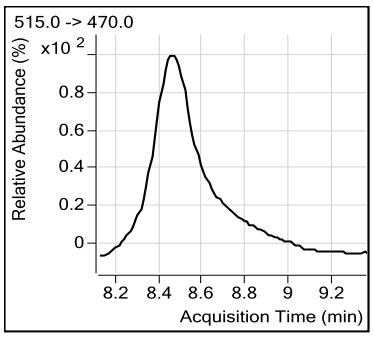


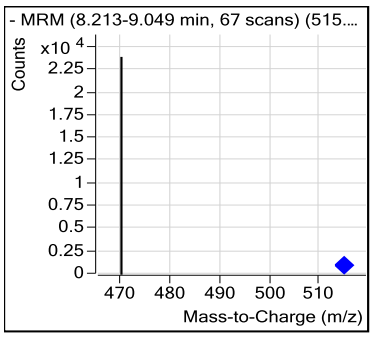


Perfluorinated Compounds by LC/MS/MS.

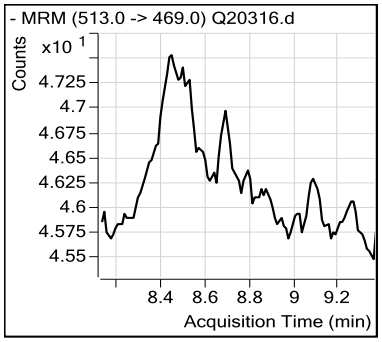
13C2-PFDA

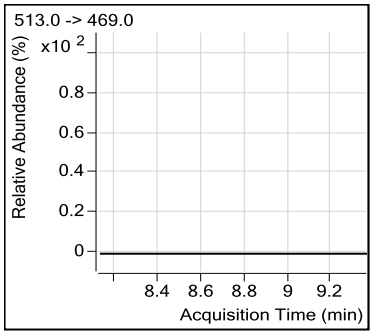


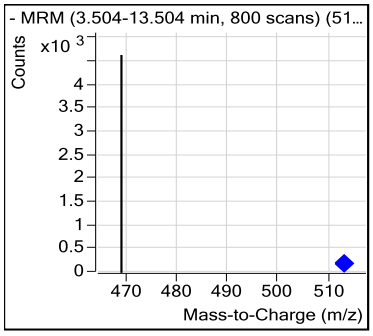




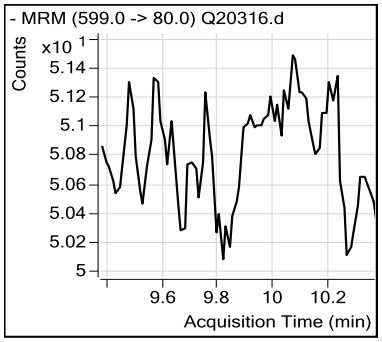
PFDA

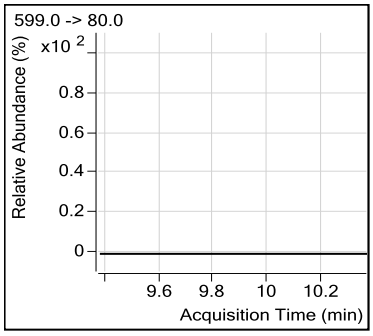


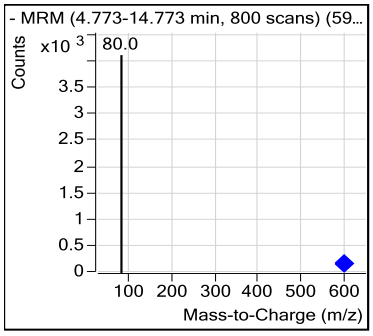




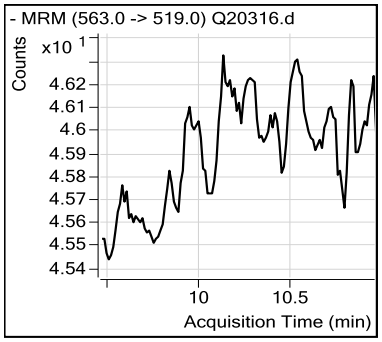
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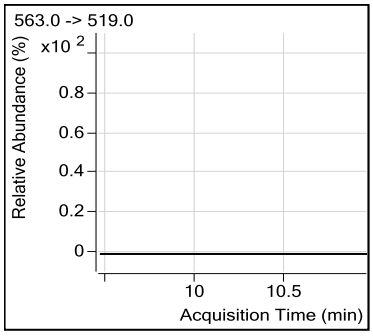


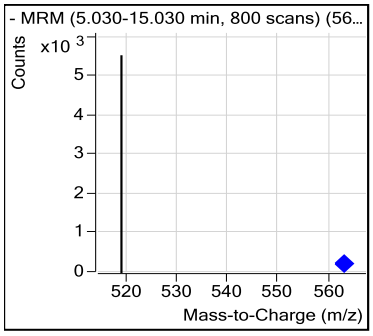




PFUnDA

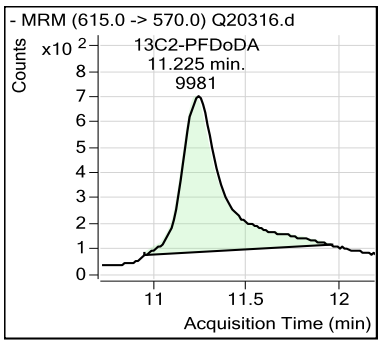


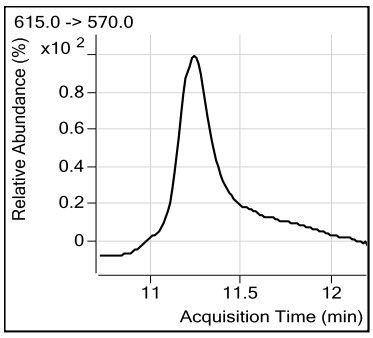


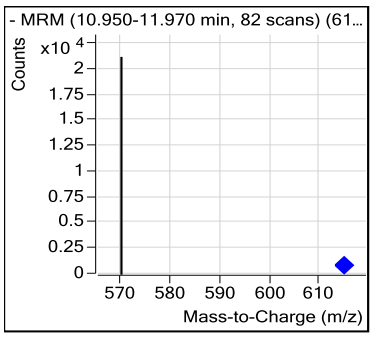


Perfluorinated Compounds by LC/MS/MS.

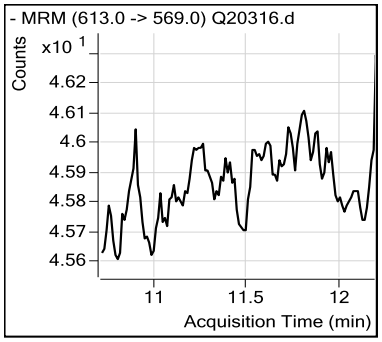
13C2-PFDoDA

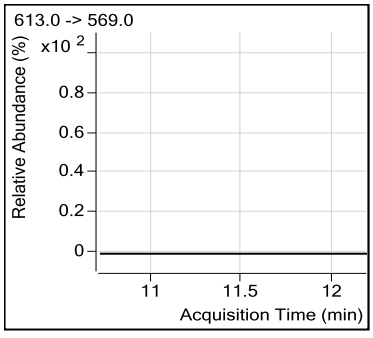


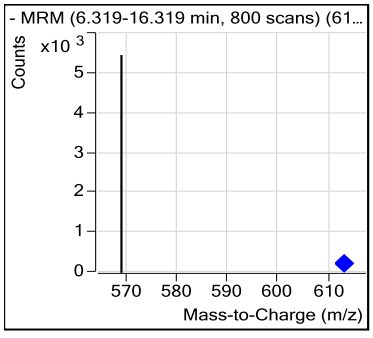




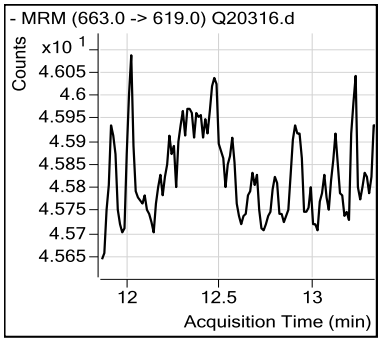
PFDoDA

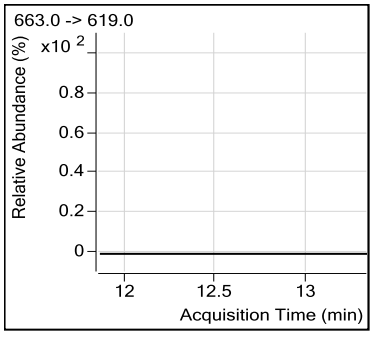


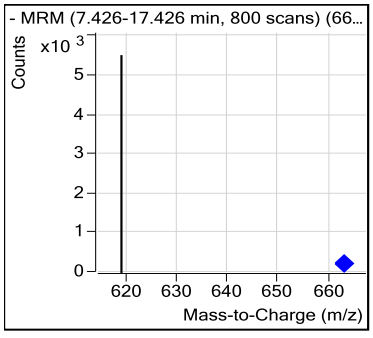




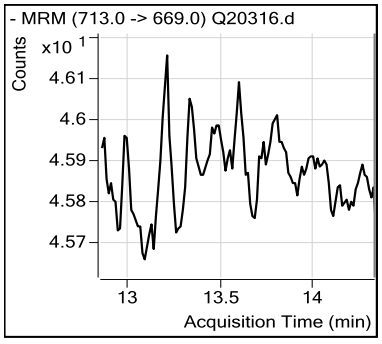
PFTrDA

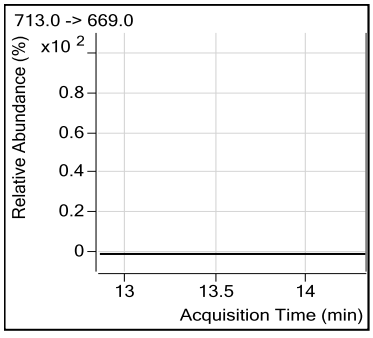


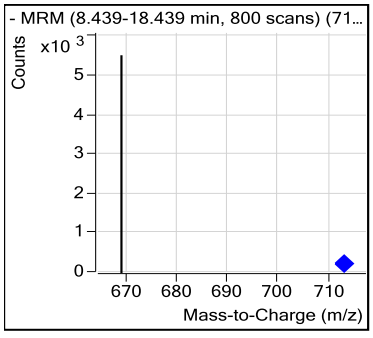




PFTeDA







Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:16

Perfluorinated Compounds by LC/MS/MS.

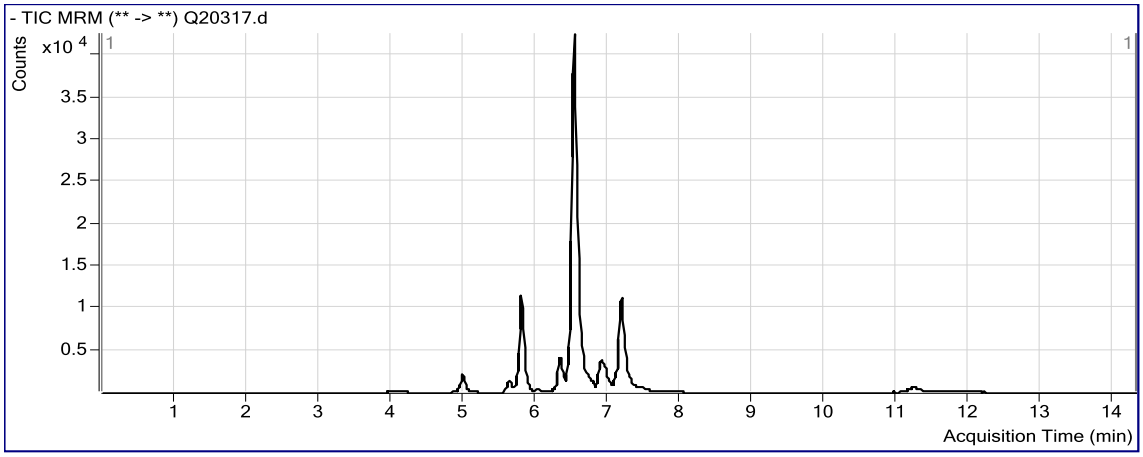
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 16:06
Sample Name	:	FA32826-4
Vial	:	Vial 13
Sample Info	:	OP59984,SQ608,120,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.525	415.0 -> 370.0	25417	20.000	µg/L		-0.012
d3-MeFOSAA	7.186	573.0 -> 419.0	9581	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	13887	20.000	µg/L		-0.012
13C2-PFDoDA	11.212	615.0 -> 570.0	9442	20.000	µg/L		-0.100
System Monitoring Compounds							
d5-EtFOSAA	7.296	589.0 -> 419.0	92	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFBA	3.428	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	3.986	263.0 -> 219.0	352	2.990	µg/L		100
PFBS	4.128	299.0 -> 80.0	534	2.279	µg/L		94
PFHxA	4.983	313.0 -> 269.0	10344	31.692	µg/L		98
PFHxS	5.793	399.0 -> 80.0	31861	77.912	µg/L	m	83
PFHpA	5.798	363.0 -> 319.0	7431	12.254	µg/L	#	69
PFHpS	6.483	449.0 -> 80.0	644	1.449	µg/L		100
PFOA	6.527	413.0 -> 369.0	187805	158.787	µg/L	m	77
MeFOSAA	7.175	570.0 -> 419.0	137	0.000	µg/L		100
PFOS	7.178	499.0 -> 80.0	52250	72.858	µg/L	m	97
PFNA	7.269	463.0 -> 419.0	1025	1.779	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	231	0.000	µg/L		100

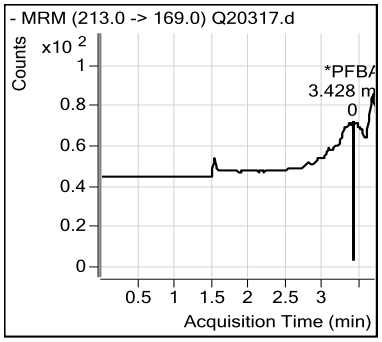
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

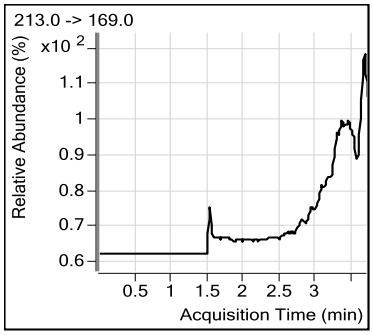
Perfluorinated Compounds by LC/MS/MS.

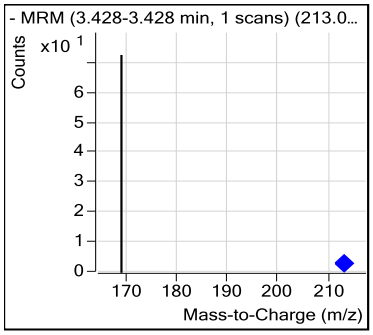
Data File	:	Q20317.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 16:06
Sample Name	:	FA32826-4
Vial	:	Vial 13
Sample Info	:	OP59984,SQ608,120,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



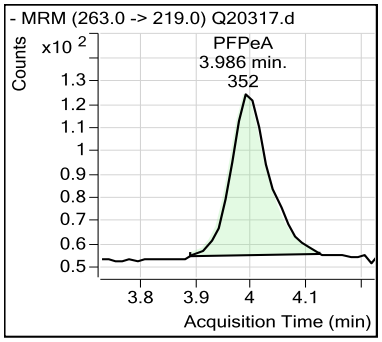
PFBA

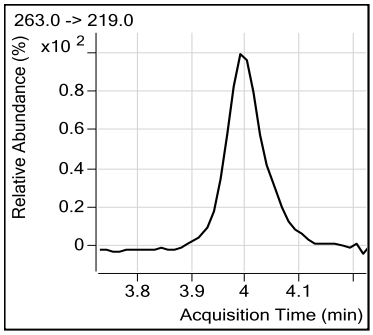


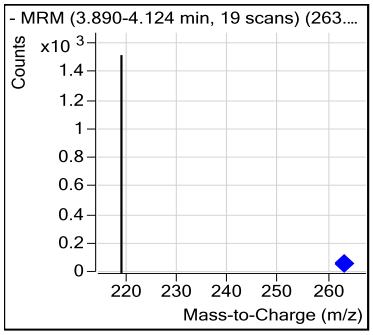




PFPeA

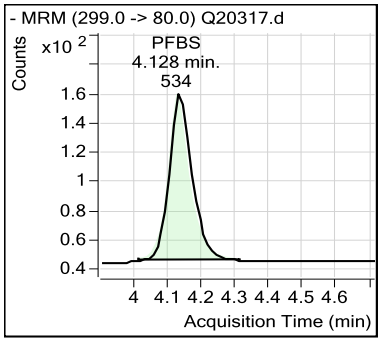


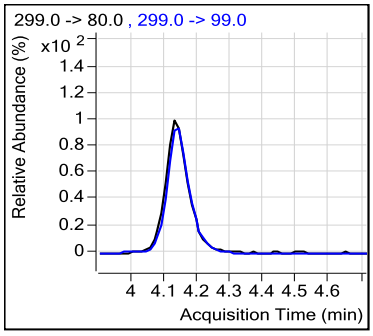


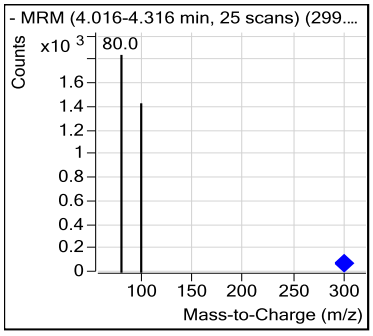


Perfluorinated Compounds by LC/MS/MS.

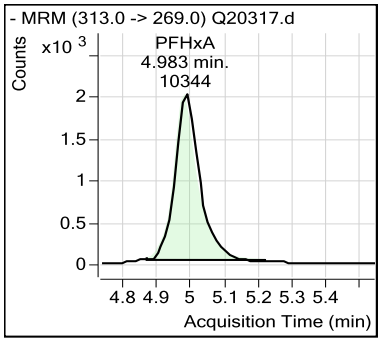
PFBS

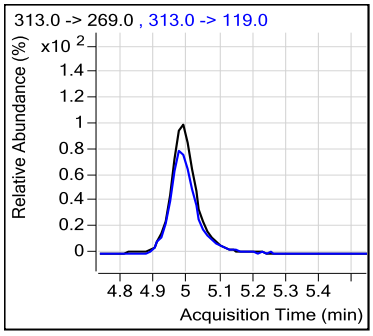


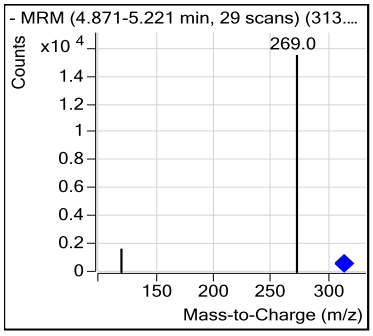




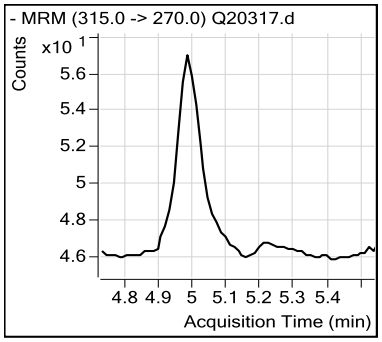
PFHxA

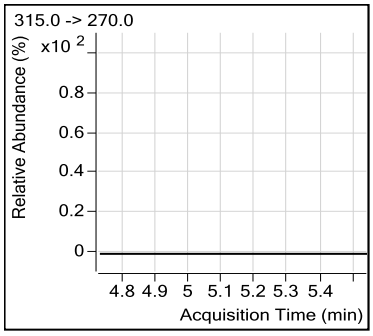


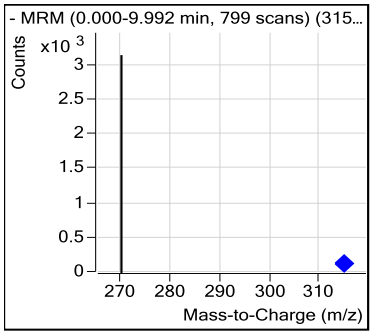




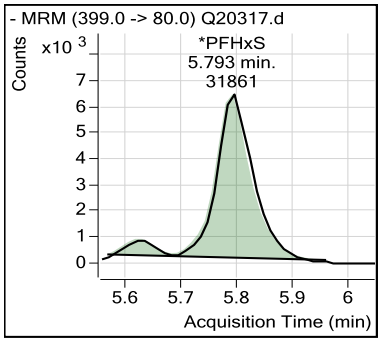
13C2-PFHxA

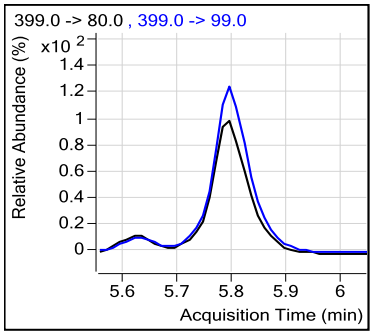


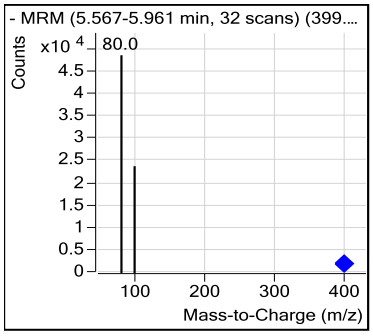




PFHxS

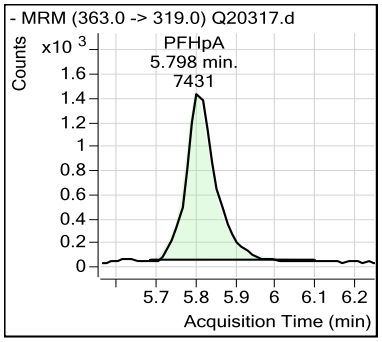


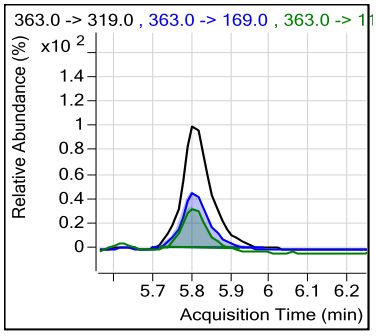


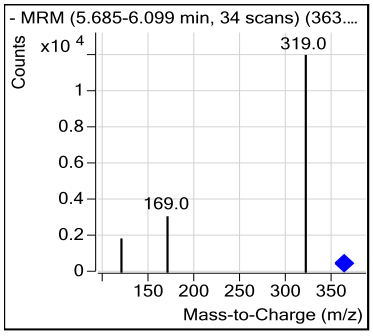


Perfluorinated Compounds by LC/MS/MS.

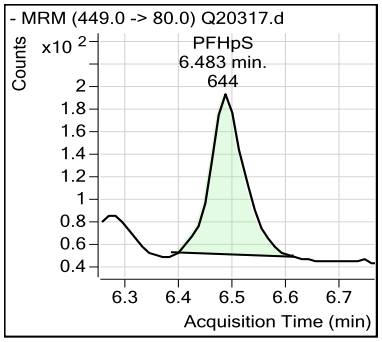
PFHpA

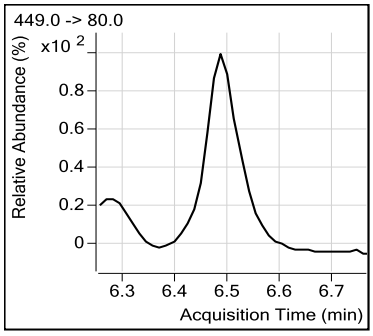


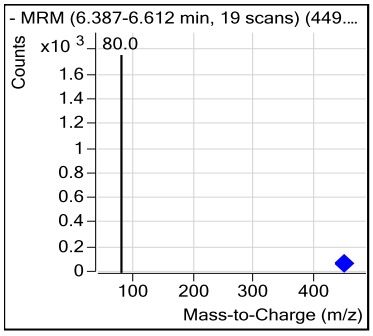




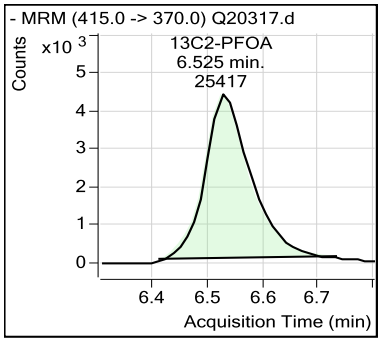
PFHpS

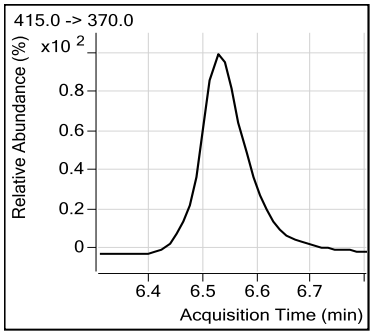


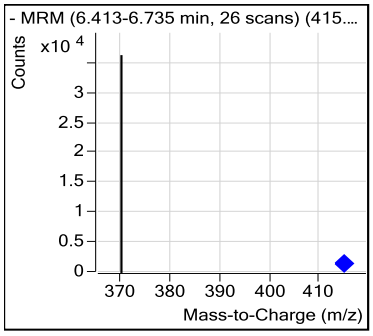




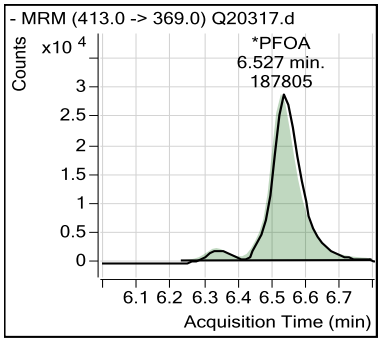
13C2-PFOA

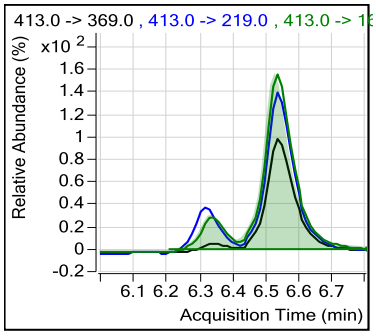


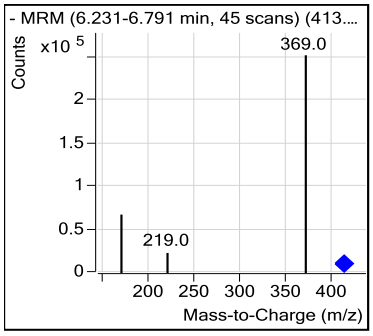




PFOA





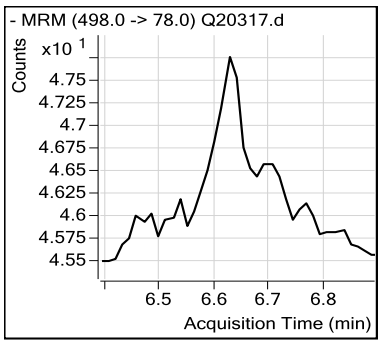


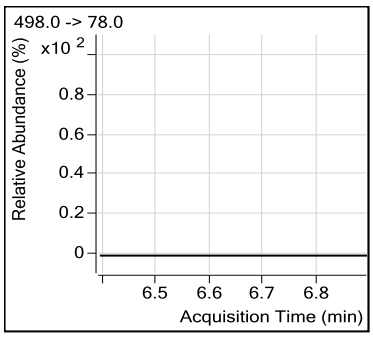
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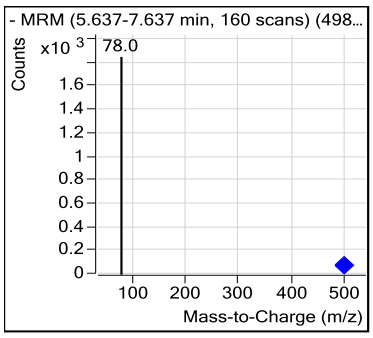
7

Perfluorinated Compounds by LC/MS/MS.

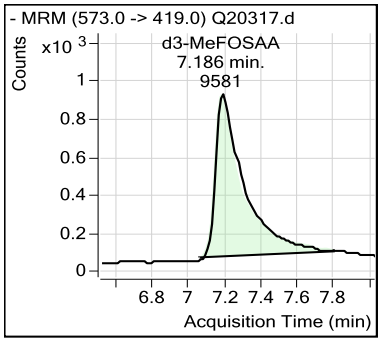
PFOSA

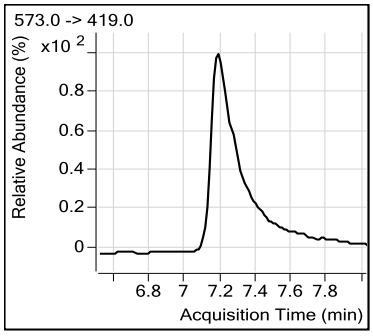


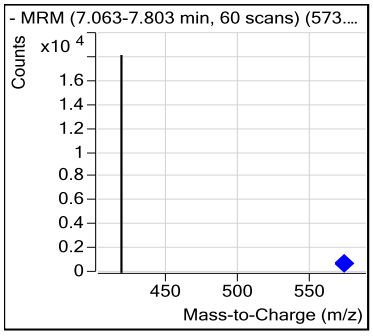




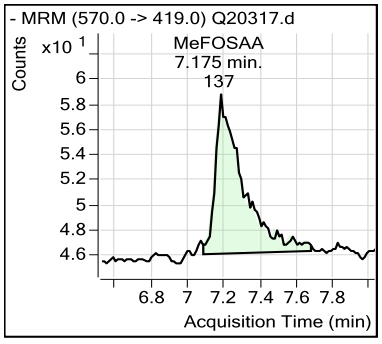
d3-MeFOSAA

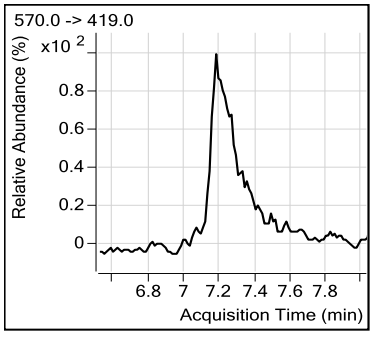


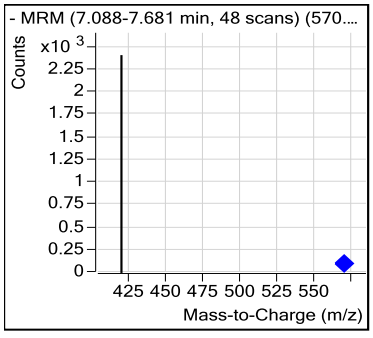




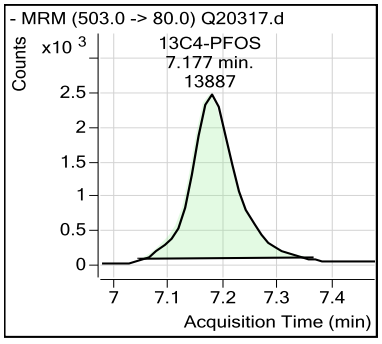
MeFOSAA

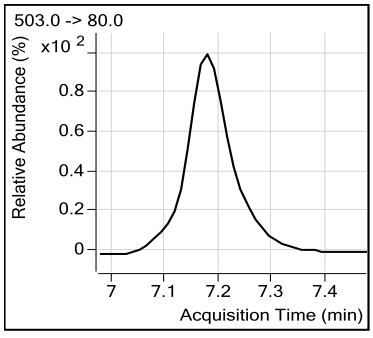


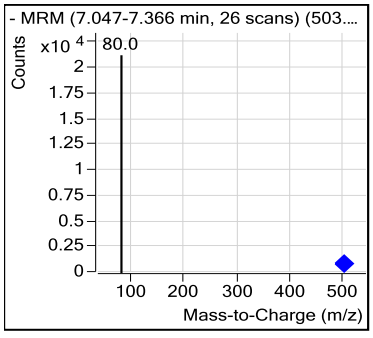




13C4-PFOS

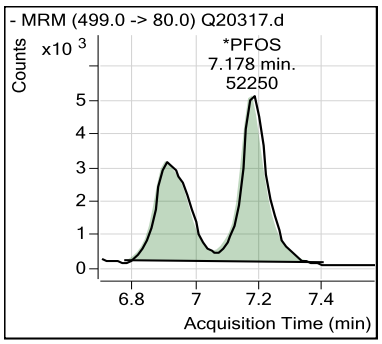


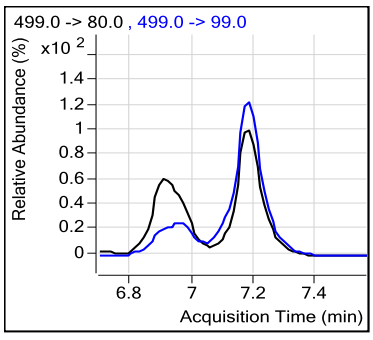


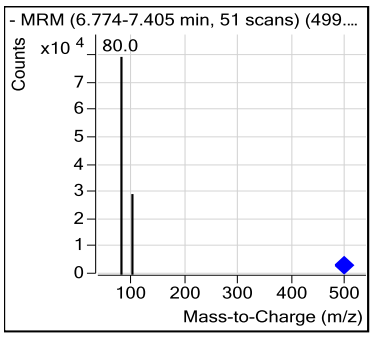


Perfluorinated Compounds by LC/MS/MS.

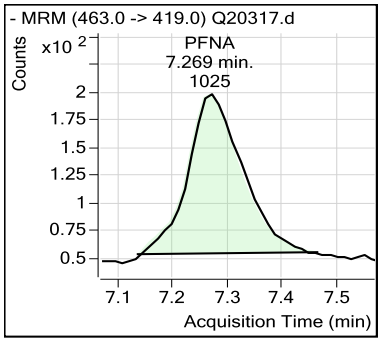
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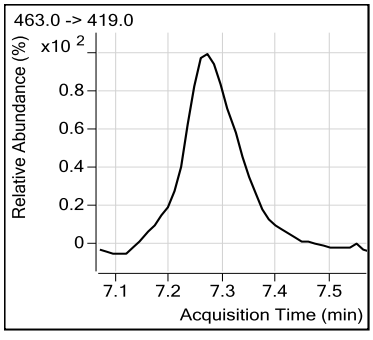


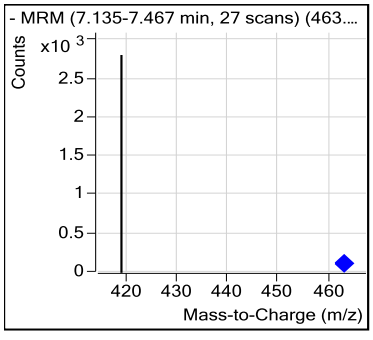




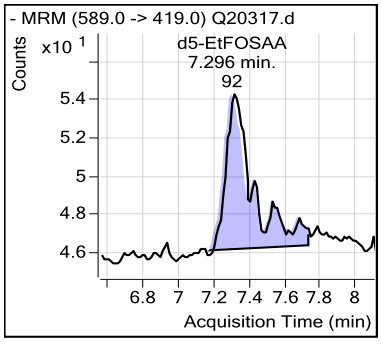
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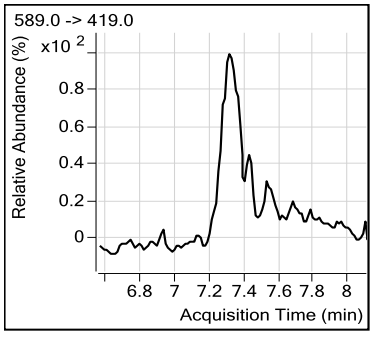


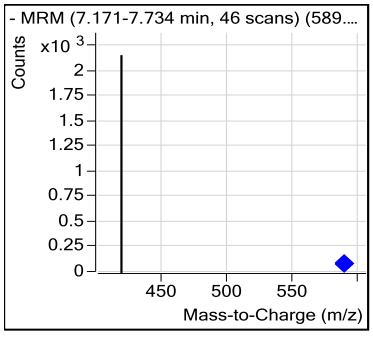




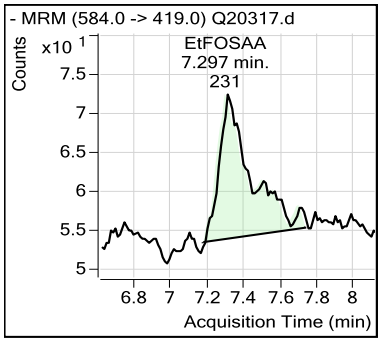
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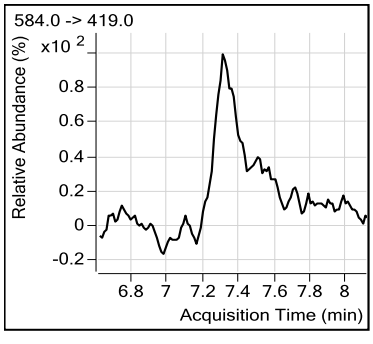


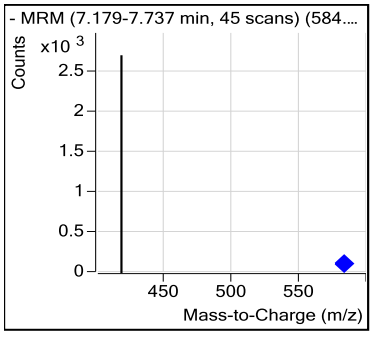




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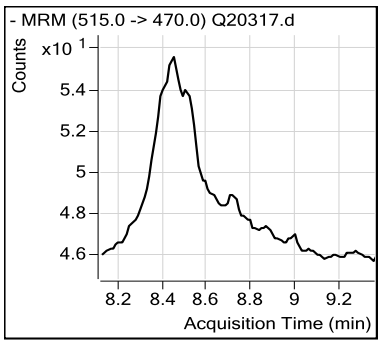


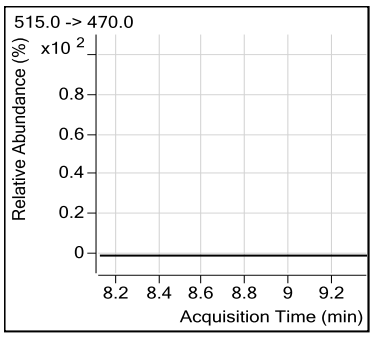


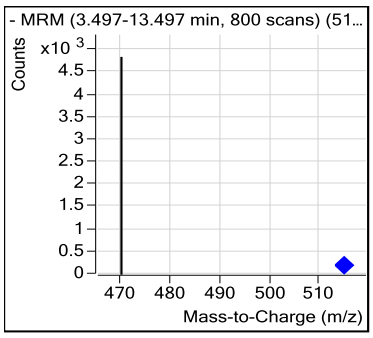


Perfluorinated Compounds by LC/MS/MS.

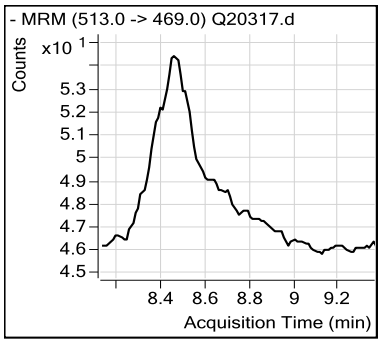
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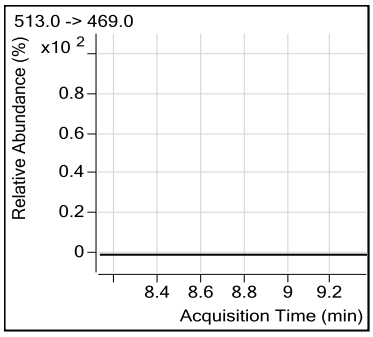


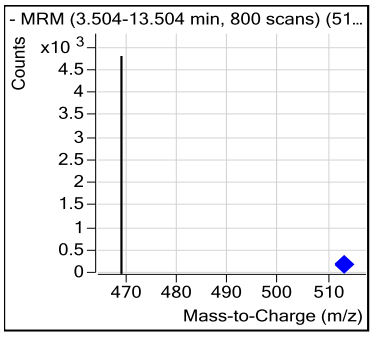




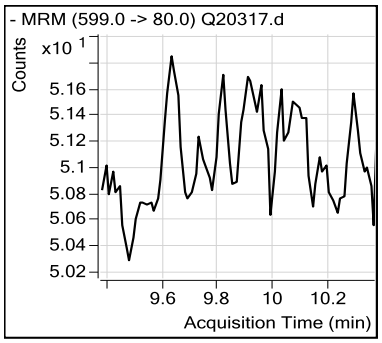
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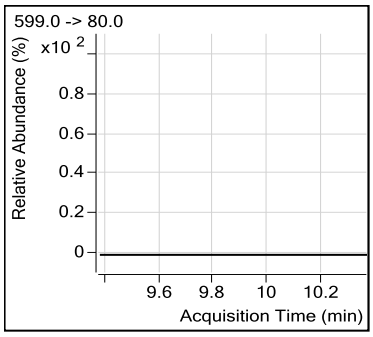


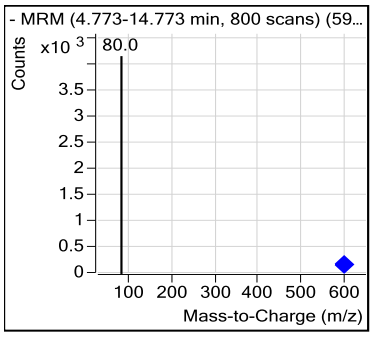




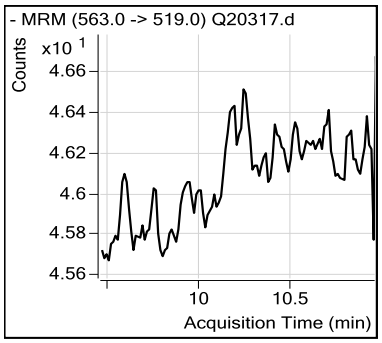
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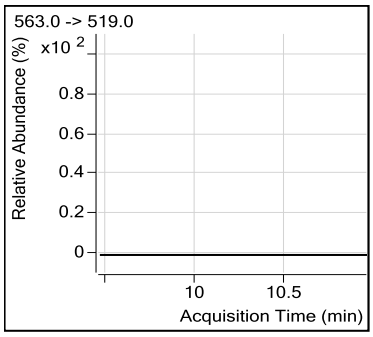


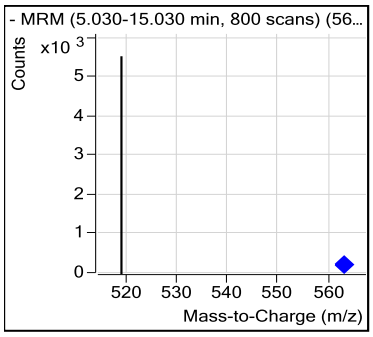




PFUnDA

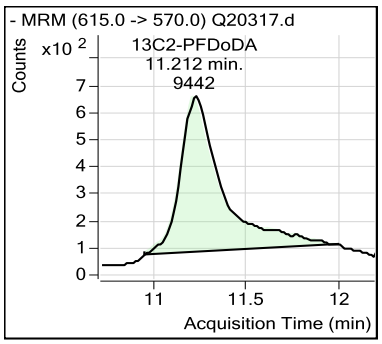


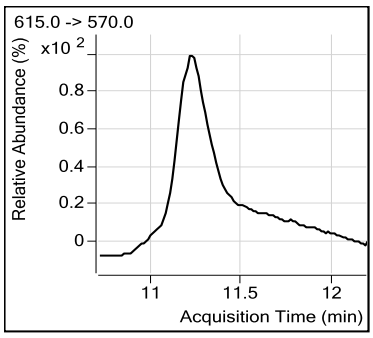


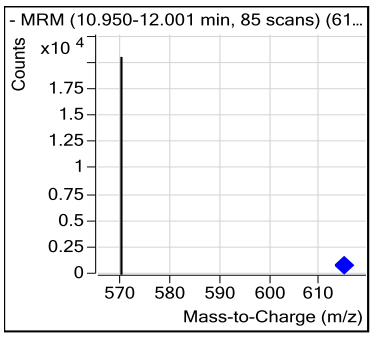


Perfluorinated Compounds by LC/MS/MS.

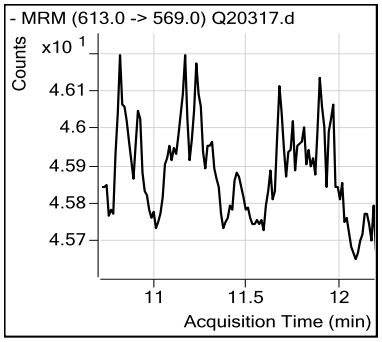
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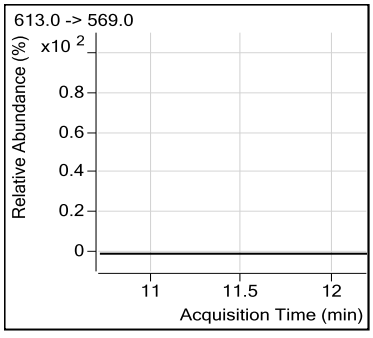


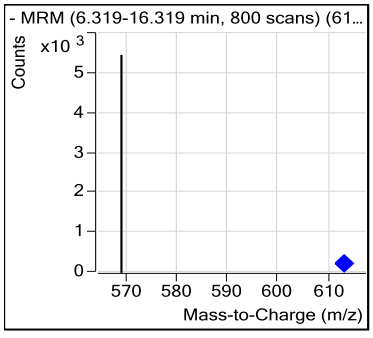




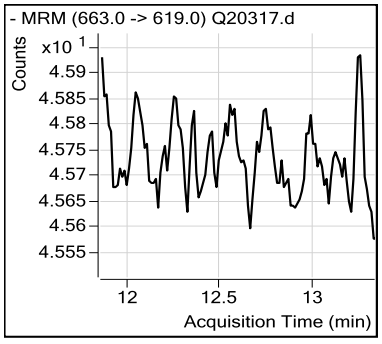
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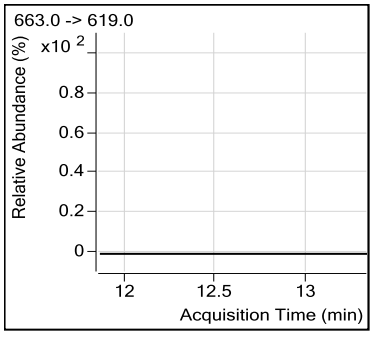


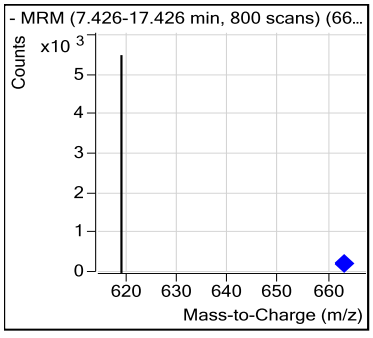




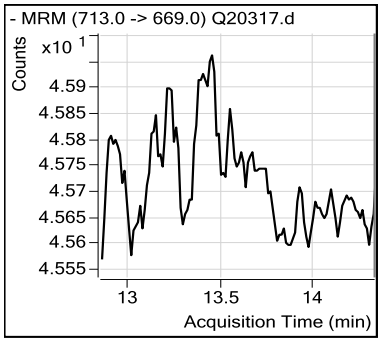
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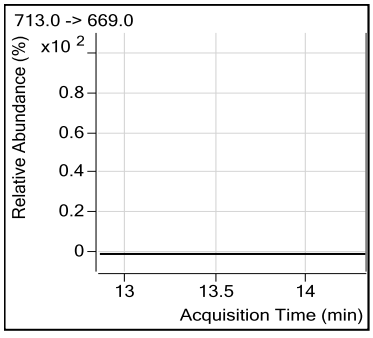


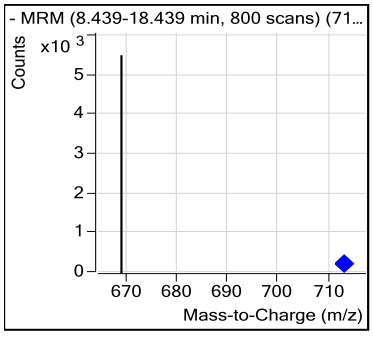




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-4	**Method:**	EPA 537 MOD
Lab FileID:	Q20317.D	**Analyst approved:**	04/14/16 16:25 Nancy Saunders
Injection Time:	04/13/16 16:06	**Supervisor approved:**	04/14/16 17:16 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluorooctanoic acid	335-67-1		6.53	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.18	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:16

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20359.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 11:55
Sample Name	:	FA32826-4
Vial	:	Vial 8
Sample Info	:	OP59984,SQ609,120,,,1,1000,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28

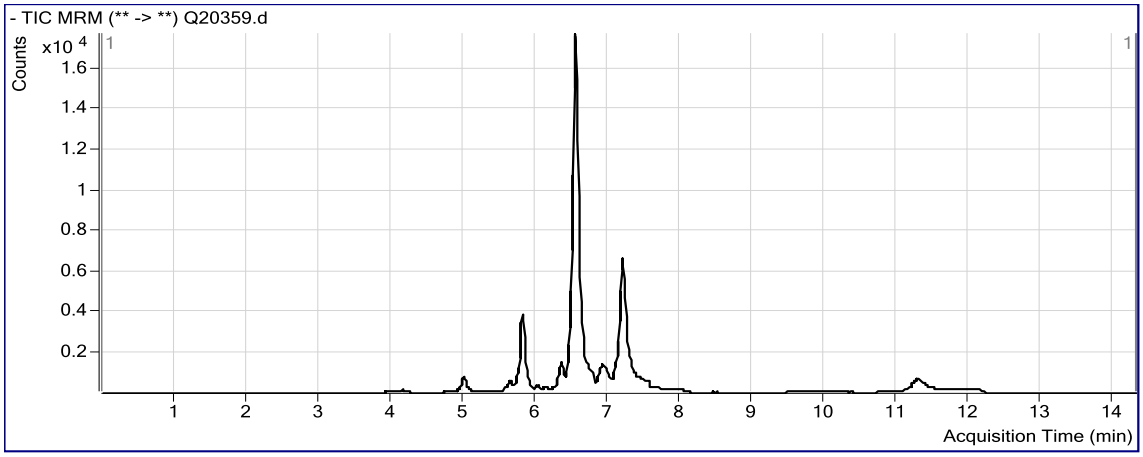
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.550	415.0 -> 370.0	32050	20.000	µg/L		0.013
d3-MeFOSAA	7.186	573.0 -> 419.0	10808	40.000	µg/L		0.000
13C4-PFOS	7.189	503.0 -> 80.0	17497	20.000	µg/L		0.000
13C2-PFDoDA	11.263	615.0 -> 570.0	9962	20.000	µg/L		-0.050
System Monitoring Compounds							
d5-EtFOSAA	7.296	589.0 -> 419.0	285	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFHxA	4.996	313.0 -> 269.0	3684	8.952	µg/L		99
PFHxS	5.805	399.0 -> 80.0	11408	22.143	µg/L	m	86
PFHpA	5.810	363.0 -> 319.0	2552	3.337	µg/L	#	70
PFOA	6.539	413.0 -> 369.0	63448	42.543	µg/L	m	79
MeFOSAA	7.188	570.0 -> 419.0	203	0.000	µg/L		100
PFOS	7.191	499.0 -> 80.0	16768	18.558	µg/L	m	99
EtFOSAA	7.322	584.0 -> 419.0	313	0.000	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

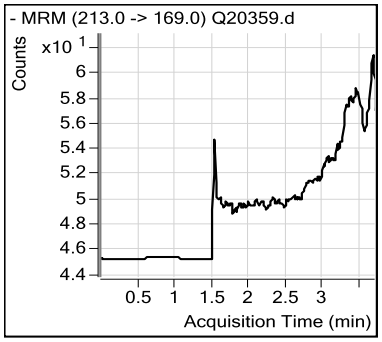
7.1.6
7

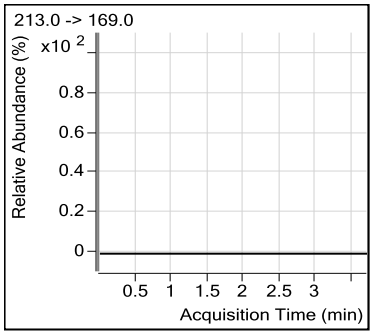
Perfluorinated Compounds by LC/MS/MS.

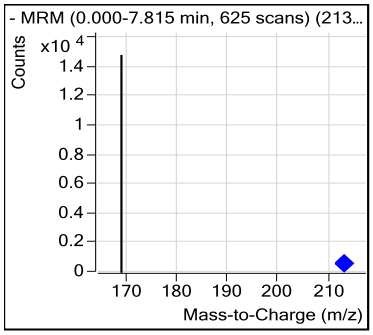
Data File	:	Q20359.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 11:55
Sample Name	:	FA32826-4
Vial	:	Vial 8
Sample Info	:	OP59984,SQ609,120,,,1,1000,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28



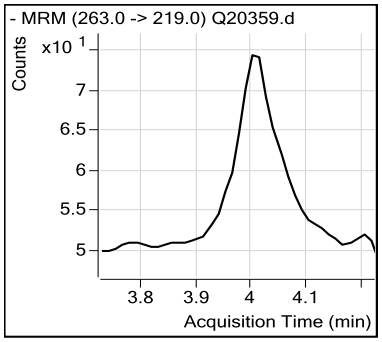
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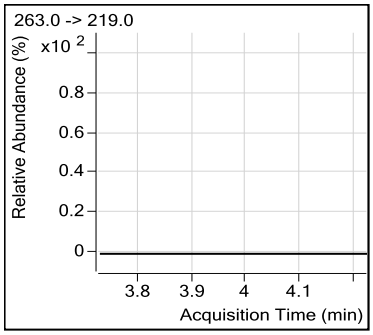


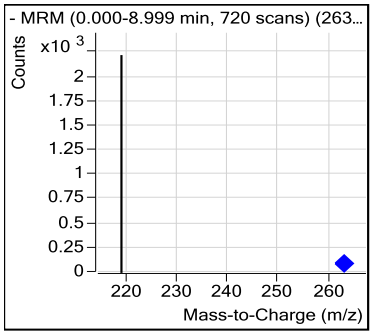




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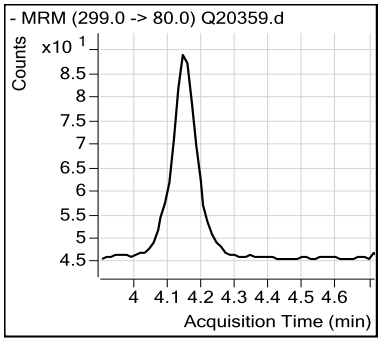


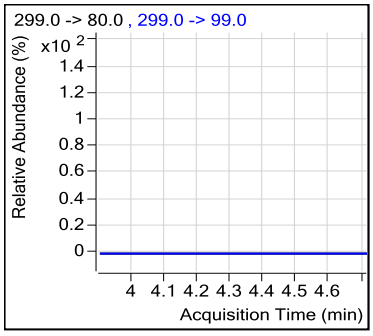


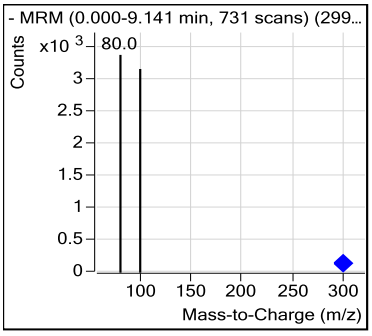


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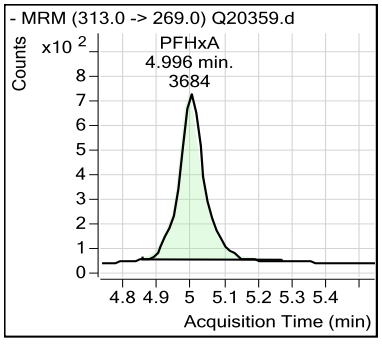
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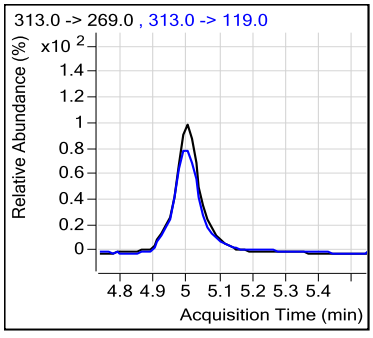


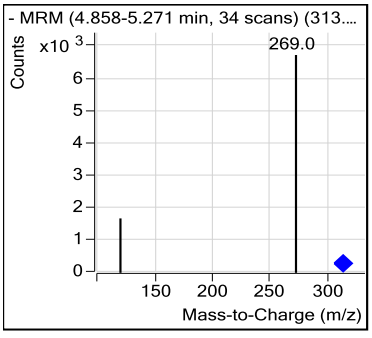




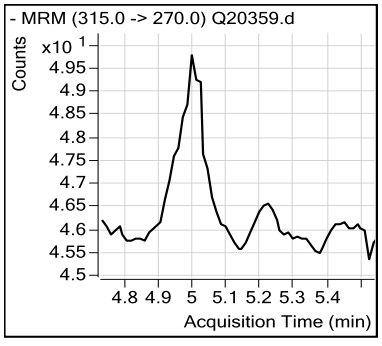
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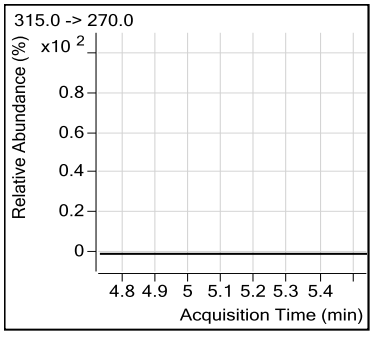


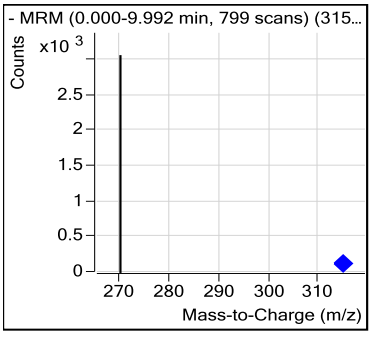




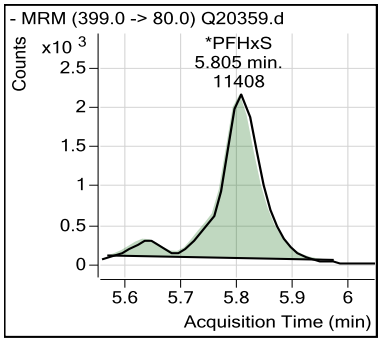
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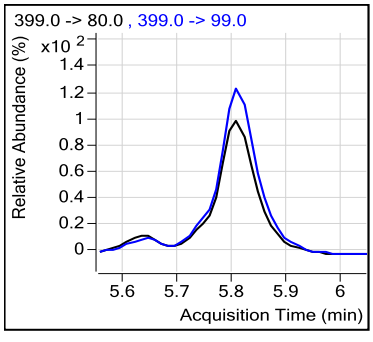


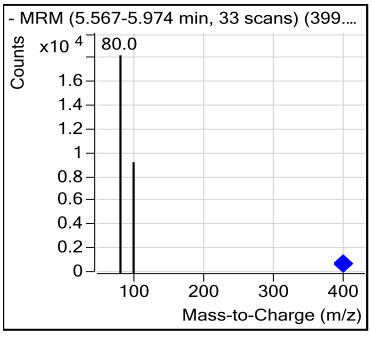




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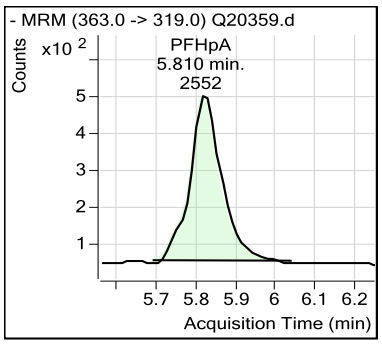


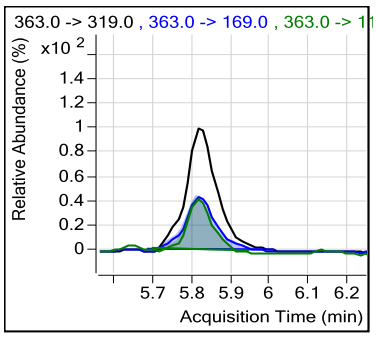


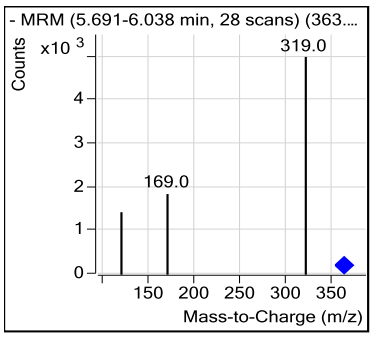
7.1.6

Perfluorinated Compounds by LC/MS/MS.

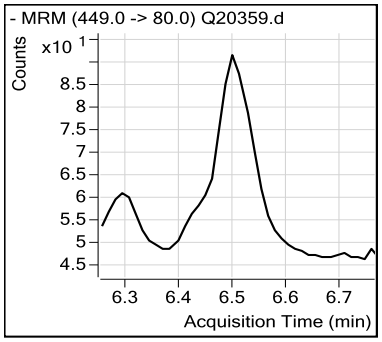
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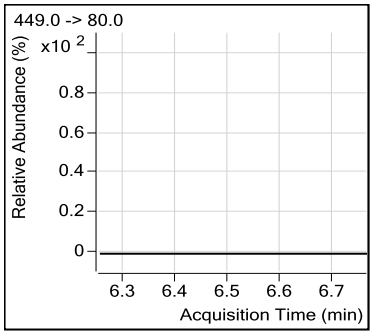


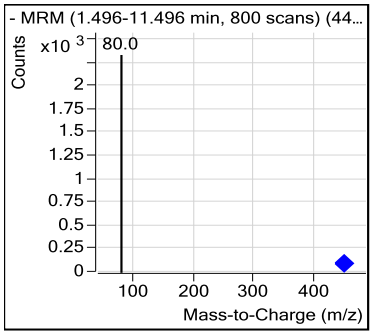




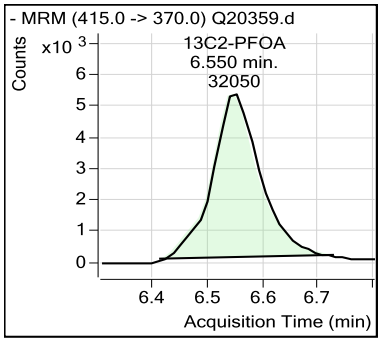
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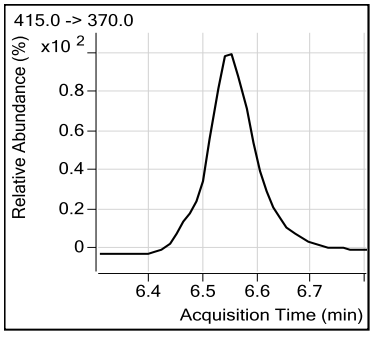


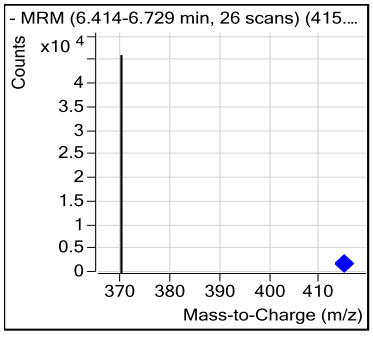




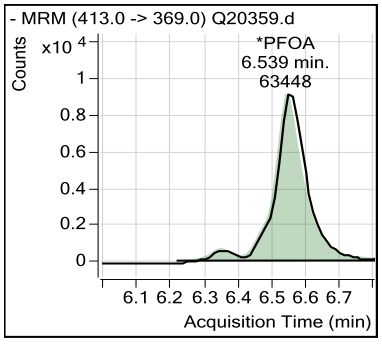
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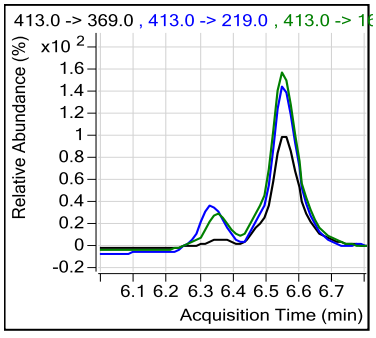


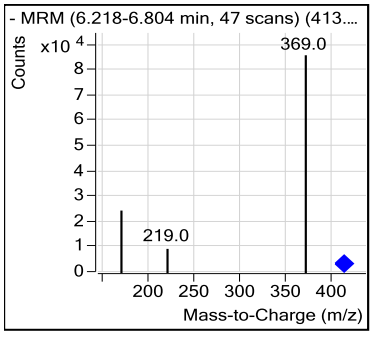




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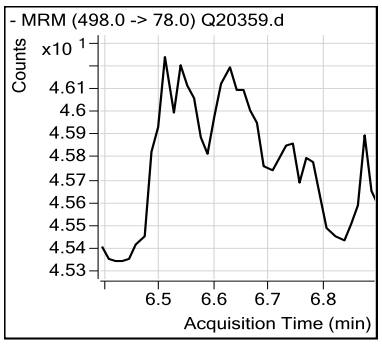


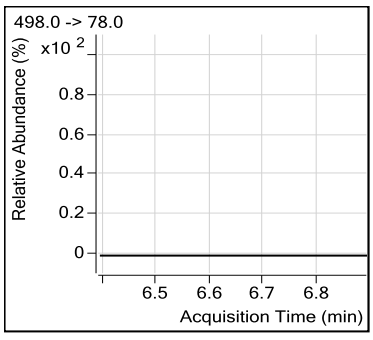


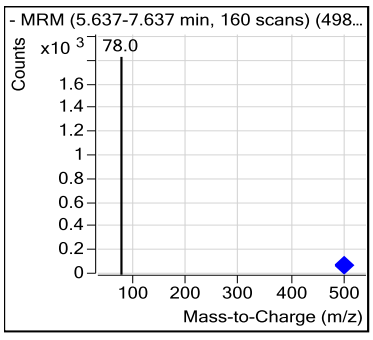


Perfluorinated Compounds by LC/MS/MS.

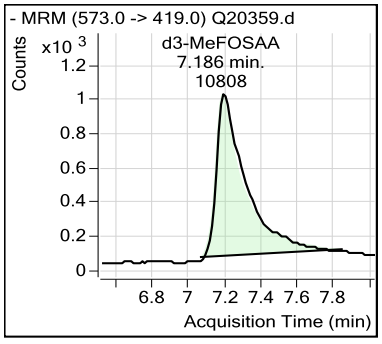
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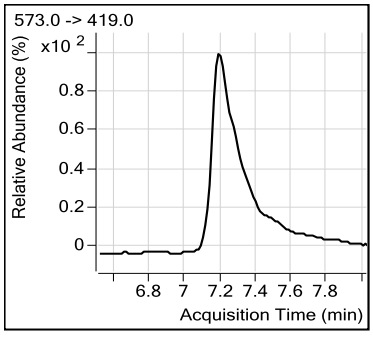


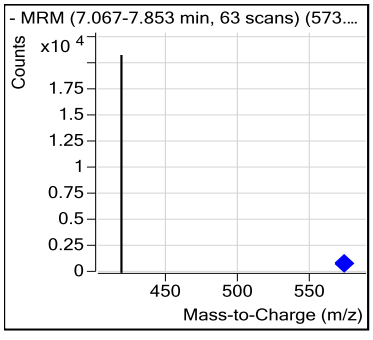




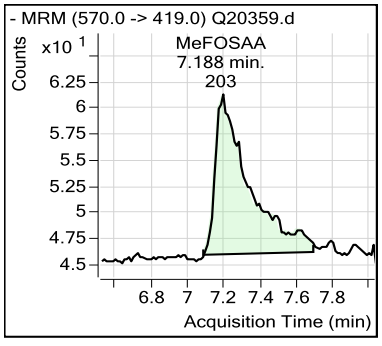
d3-MeFOSAA

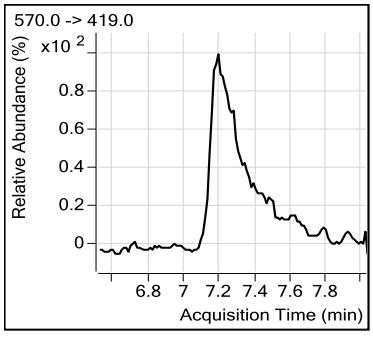


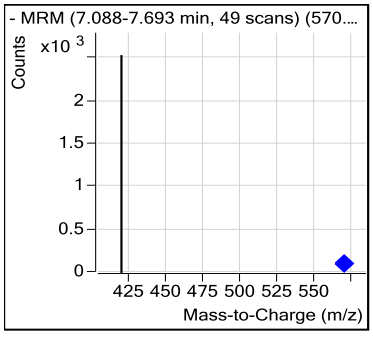




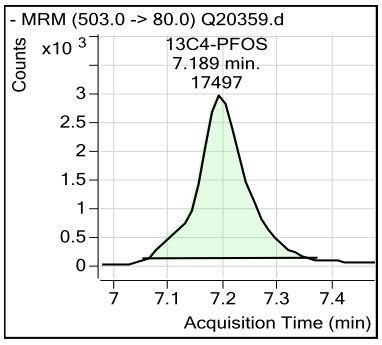
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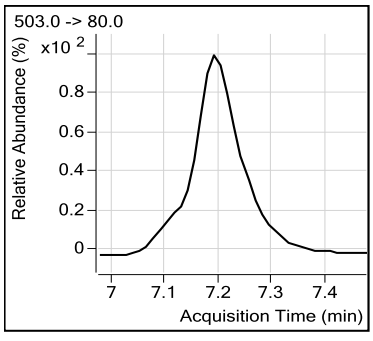


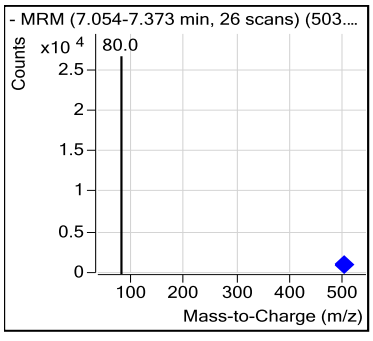




13C4-PFOS

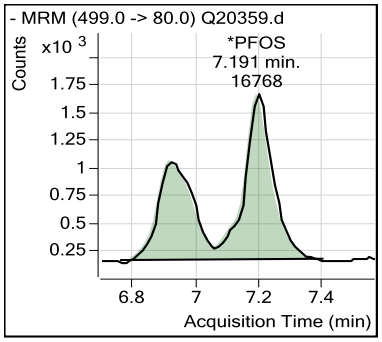


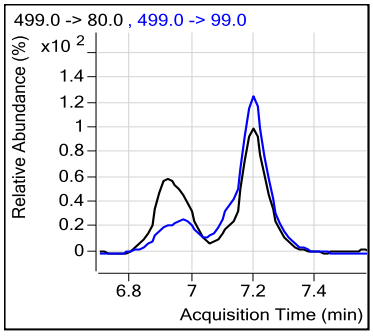


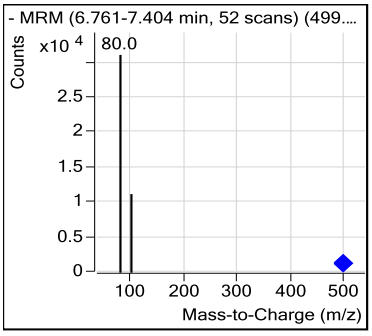


Perfluorinated Compounds by LC/MS/MS.

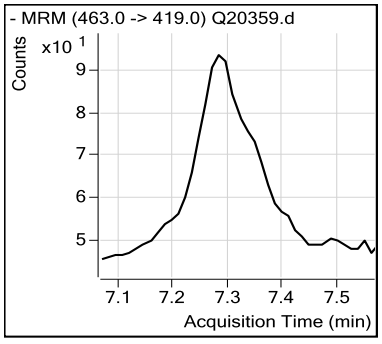
PFOS

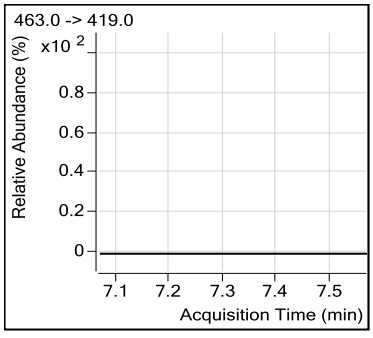


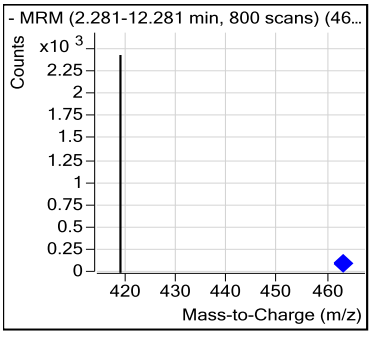




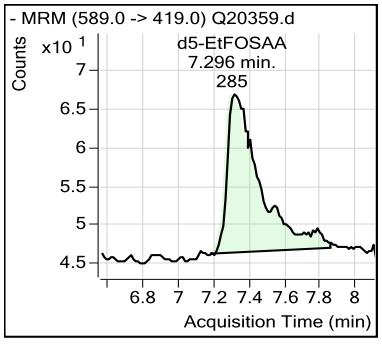
PFNA

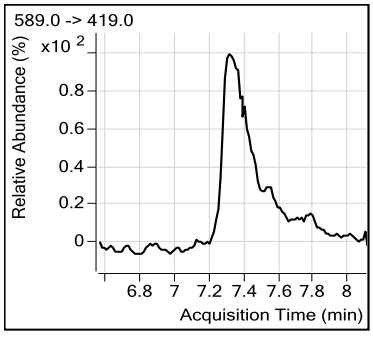


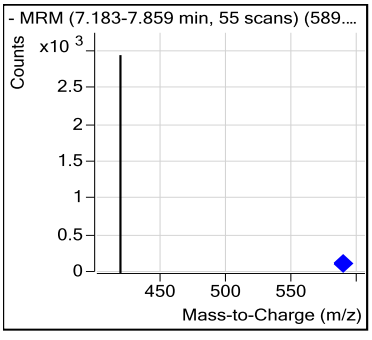




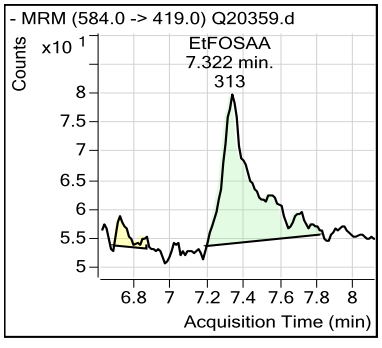
d5-EtFOSAA

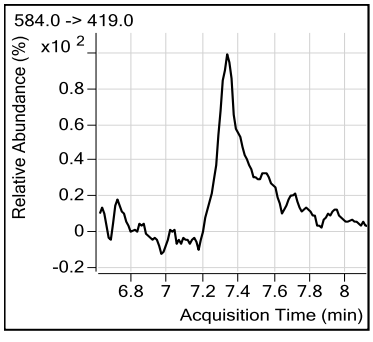


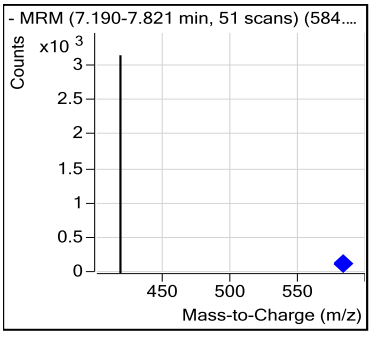




EtFOSAA

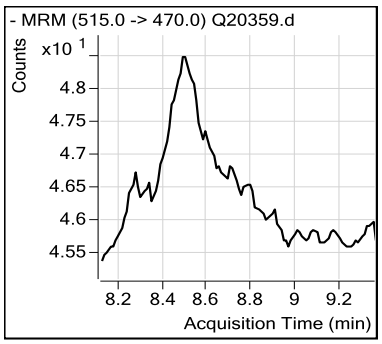


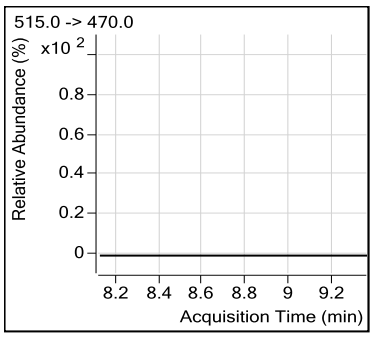


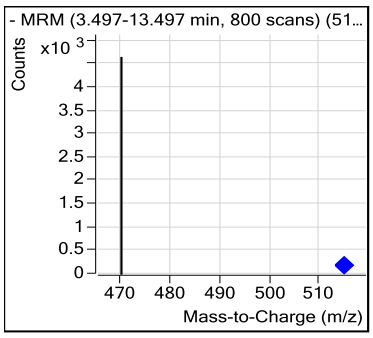


Perfluorinated Compounds by LC/MS/MS.

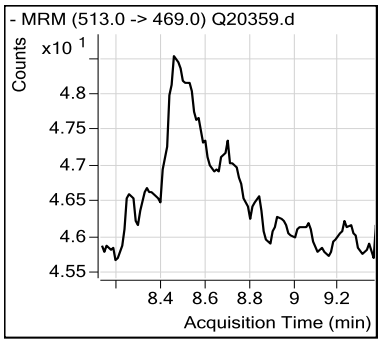
13C2-PFDA

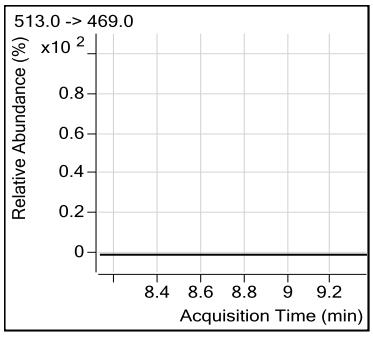


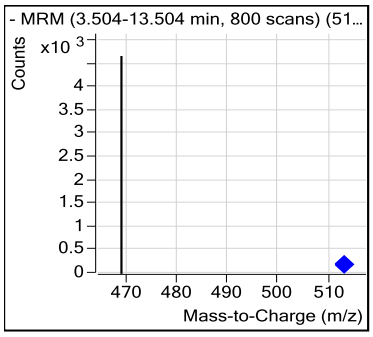




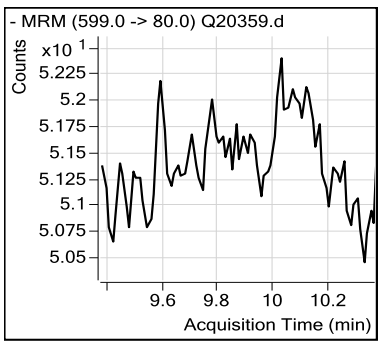
PFDA

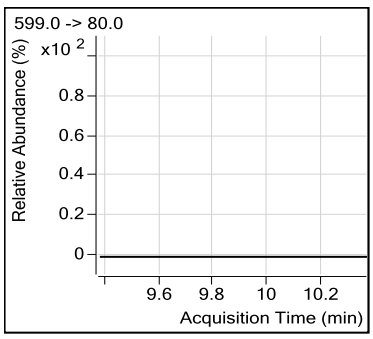


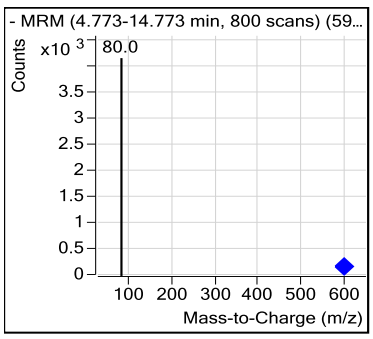




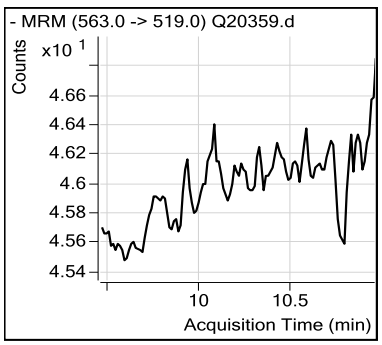
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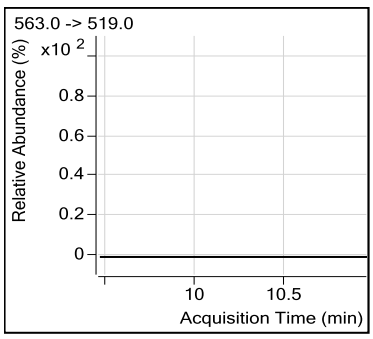


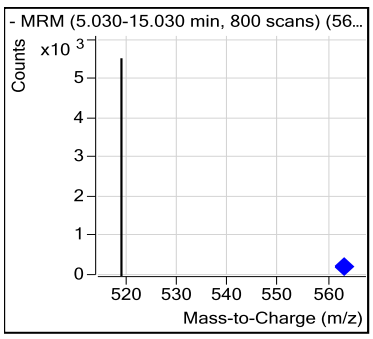




PFUnDA

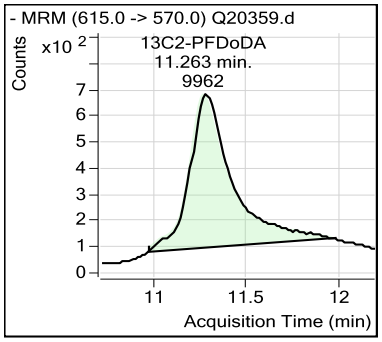


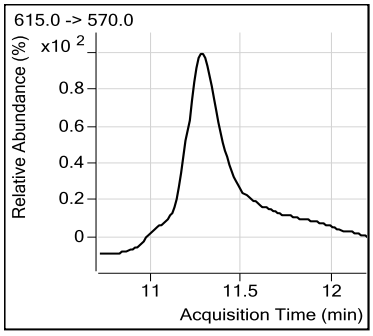


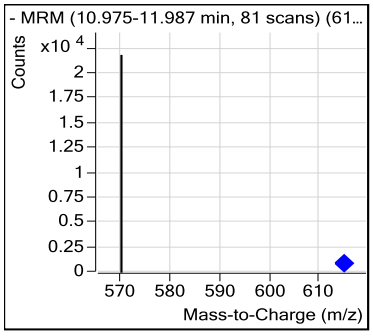


Perfluorinated Compounds by LC/MS/MS.

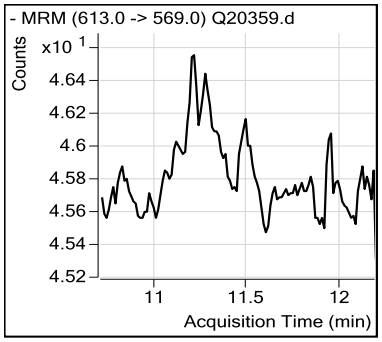
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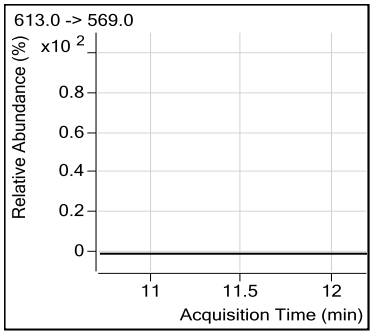


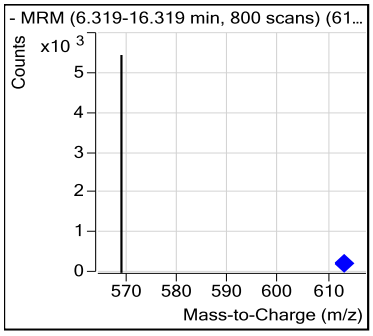




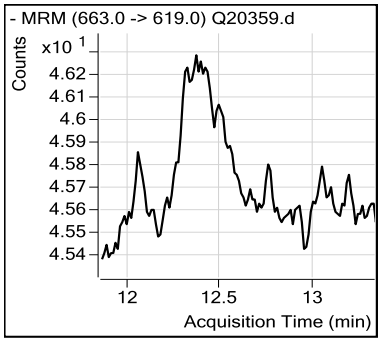
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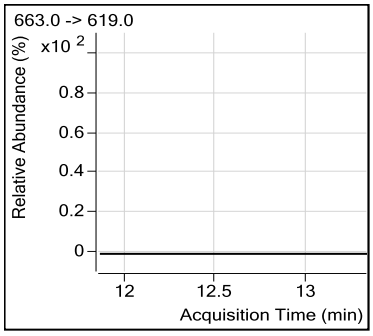


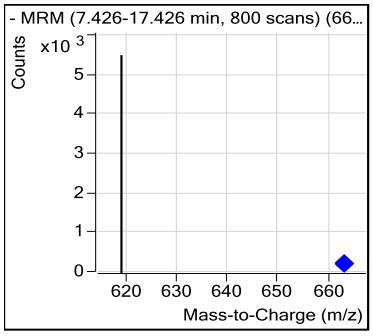




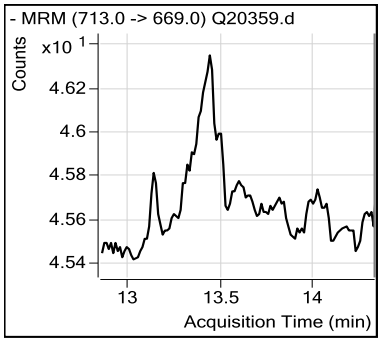
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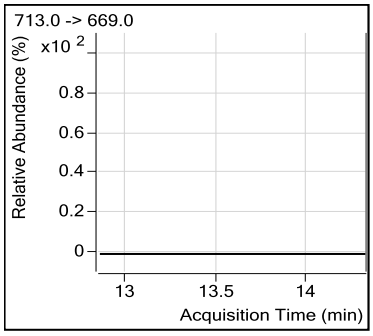


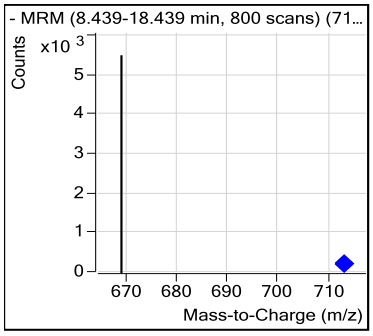




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-4	**Method:**	EPA 537 MOD
Lab FileID:	Q20359.D	**Analyst approved:**	04/14/16 16:25 Nancy Saunders
Injection Time:	04/14/16 11:55	**Supervisor approved:**	04/14/16 17:16 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.80	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.19	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

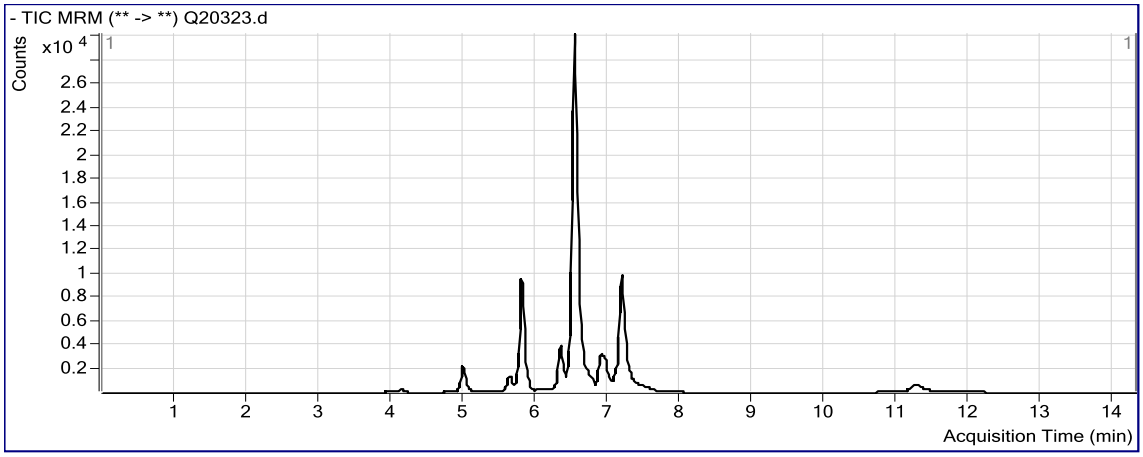
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 18:14
Sample Name	:	FA32826-5
Vial	:	Vial 17
Sample Info	:	OP59984,SQ608,125,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	28460	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	10133	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	14994	20.000	µg/L		-0.012
13C2-PFDoDA	11.250	615.0 -> 570.0	10139	20.000	µg/L		-0.062
System Monitoring Compounds							
d5-EtFOSAA	7.308	589.0 -> 419.0	225	0.00	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFPeA	3.999	263.0 -> 219.0	750	5.682	µg/L		100
PFBS	4.141	299.0 -> 80.0	817	3.231	µg/L		96
PFHxA	4.983	313.0 -> 269.0	10710	29.304	µg/L		99
PFHxS	5.793	399.0 -> 80.0	28044	63.515	µg/L	m	83
PFHpA	5.810	363.0 -> 319.0	6508	9.583	µg/L	#	69
PFHpS	6.483	449.0 -> 80.0	530	1.103	µg/L		100
PFOA	6.539	413.0 -> 369.0	127955	96.616	µg/L	# m	76
PFOS	7.178	499.0 -> 80.0	44823	57.886	µg/L	m	95
MeFOSAA	7.188	570.0 -> 419.0	242	0.000	µg/L		100
PFNA	7.282	463.0 -> 419.0	647	1.003	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	301	0.000	µg/L		100

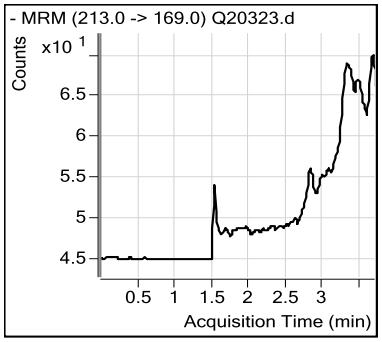
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

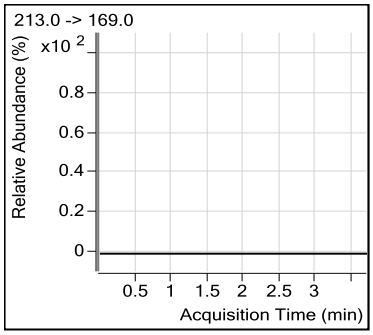
Perfluorinated Compounds by LC/MS/MS.

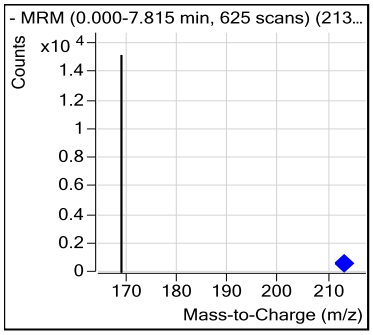
Data File	:	Q20323.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 18:14
Sample Name	:	FA32826-5
Vial	:	Vial 17
Sample Info	:	OP59984,SQ608,125,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



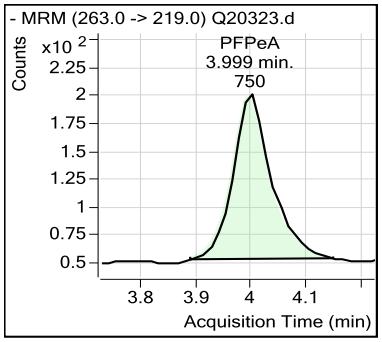
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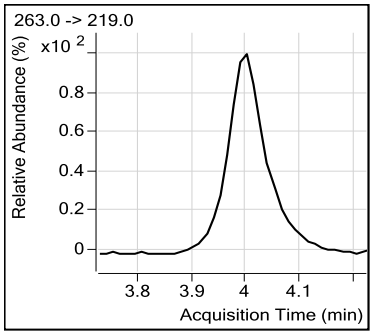


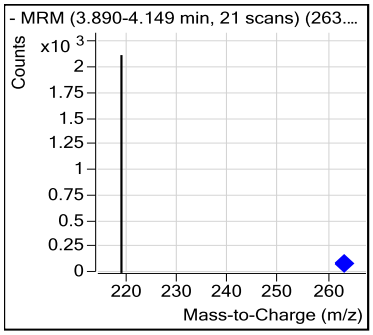




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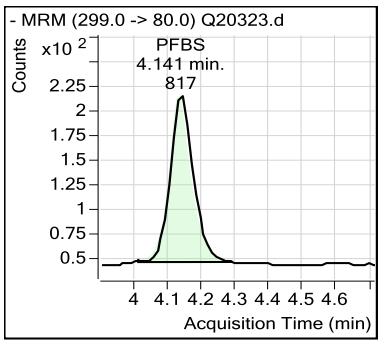


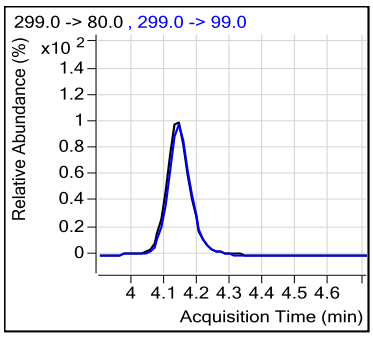


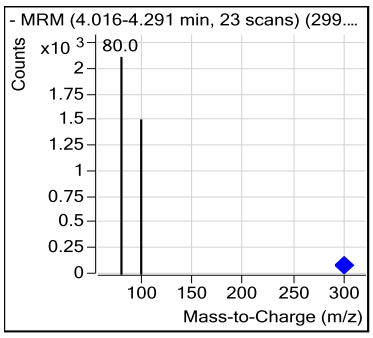


Perfluorinated Compounds by LC/MS/MS.

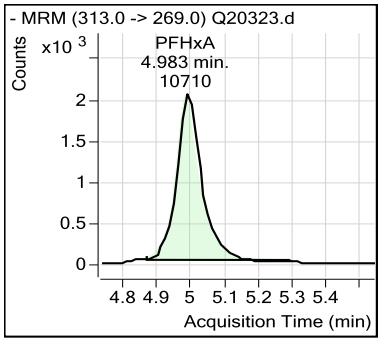
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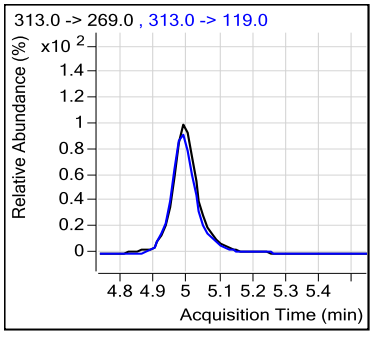


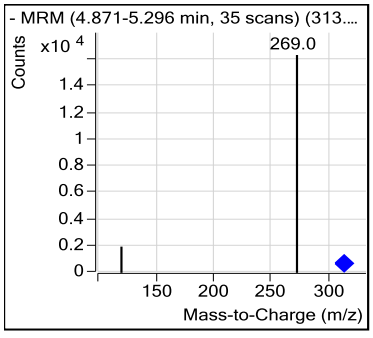




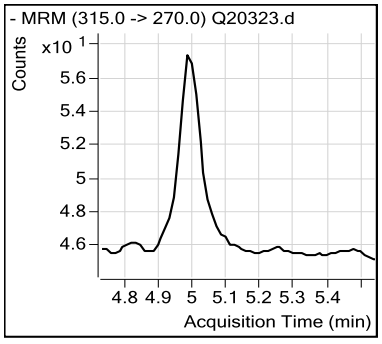
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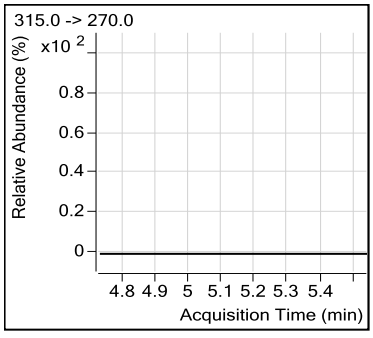


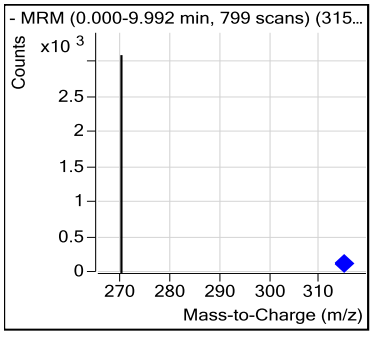




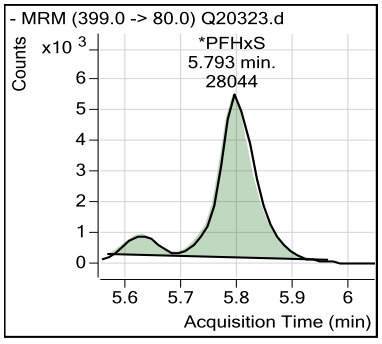
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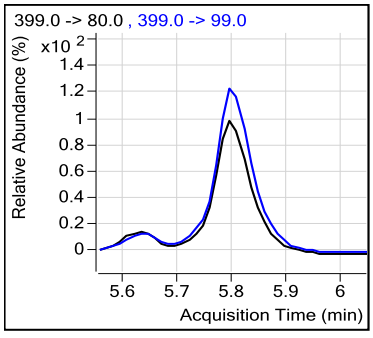


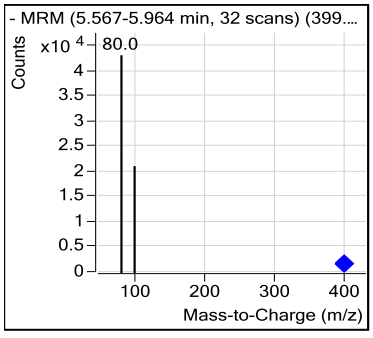




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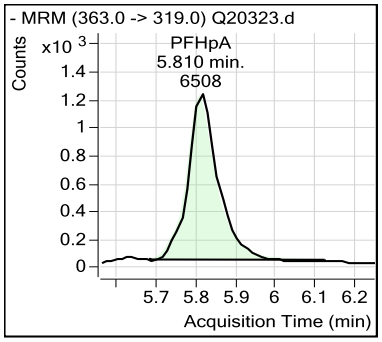


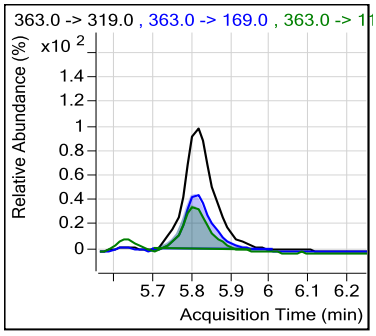


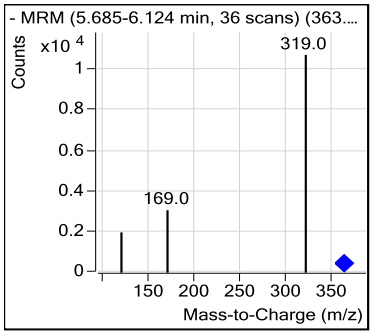


Perfluorinated Compounds by LC/MS/MS.

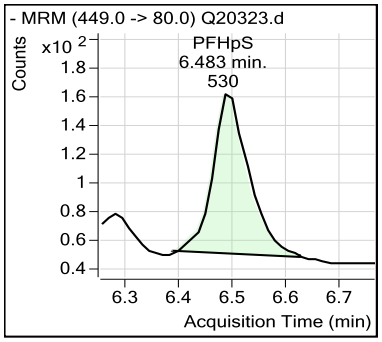
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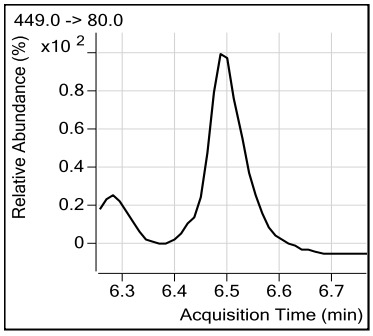


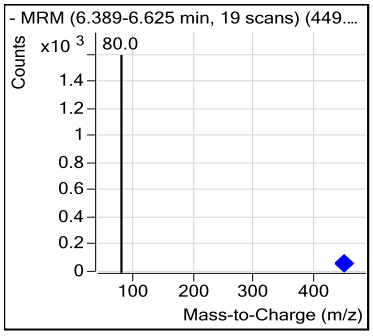




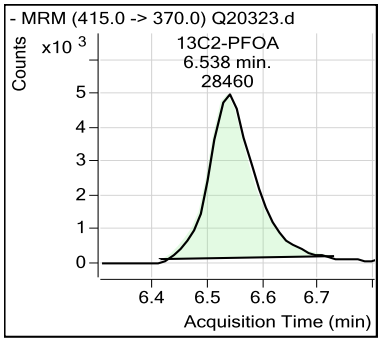
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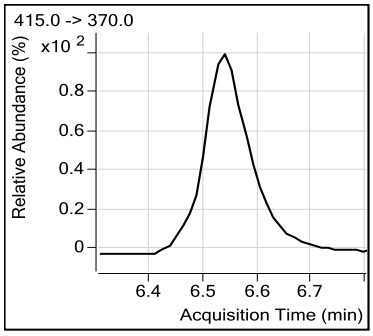


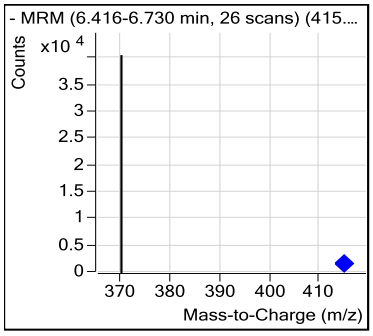




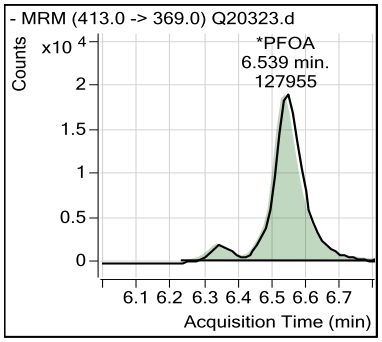
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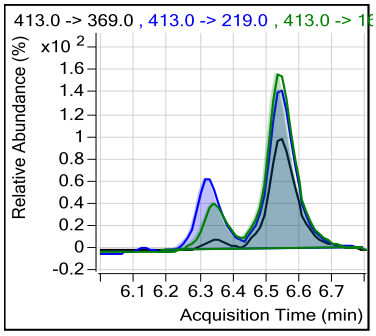


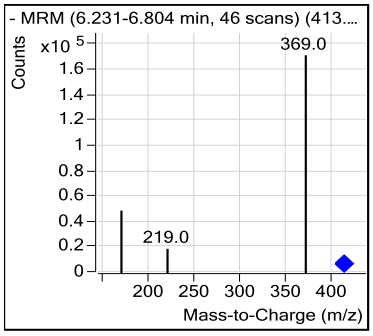




PFOA

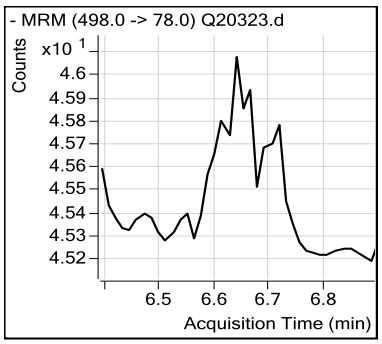


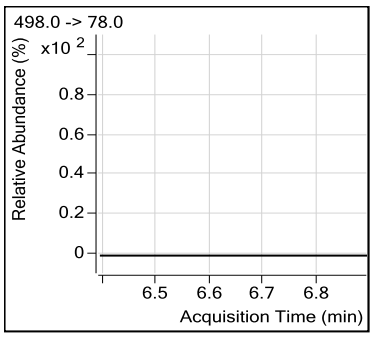


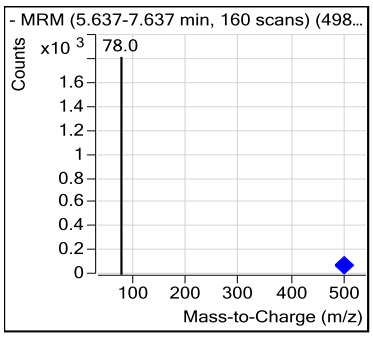


Perfluorinated Compounds by LC/MS/MS.

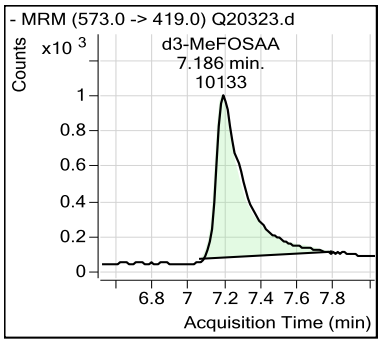
PFOSA

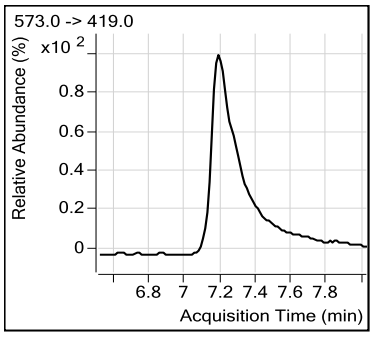


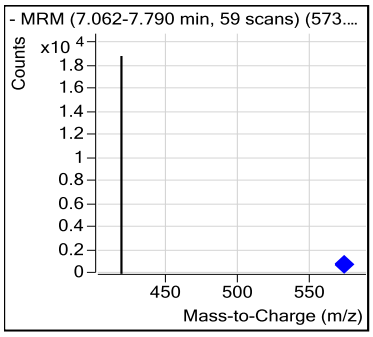




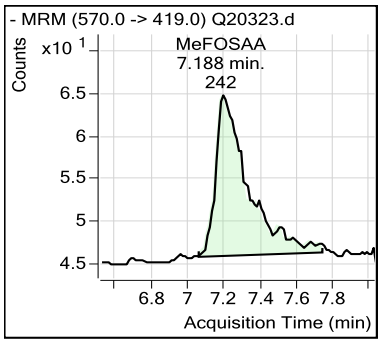
d3-MeFOSAA

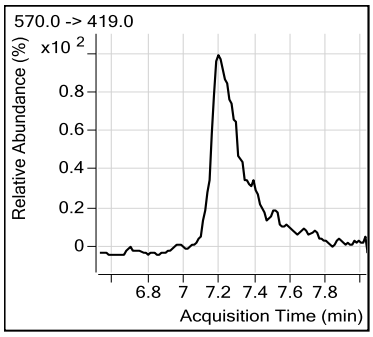


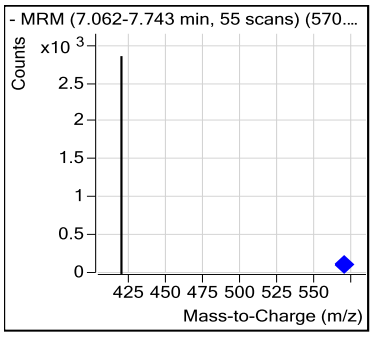




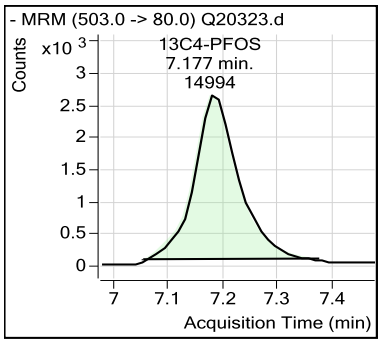
MeFOSAA

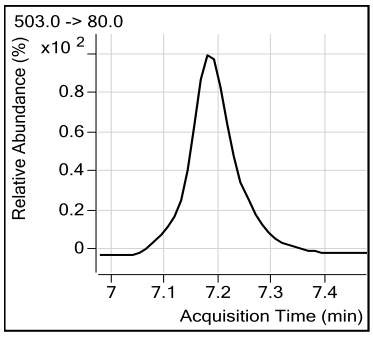


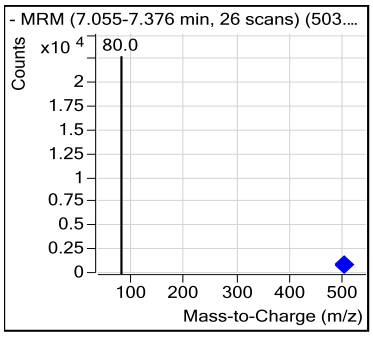




13C4-PFOS

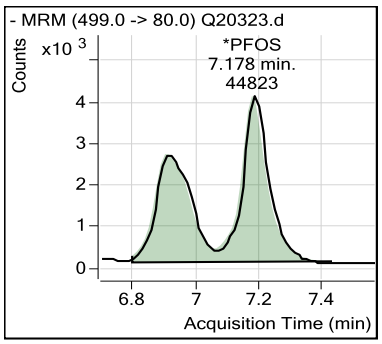


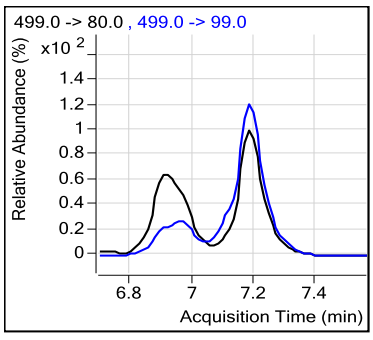


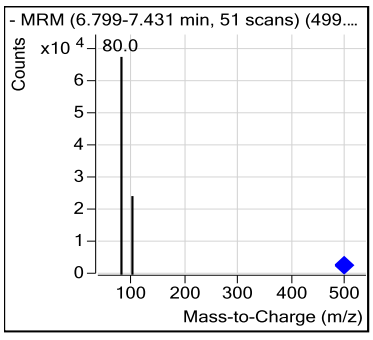


Perfluorinated Compounds by LC/MS/MS.

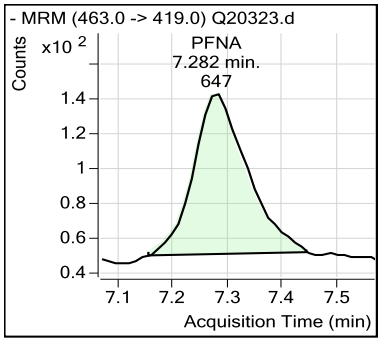
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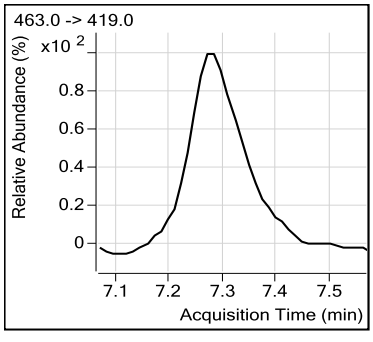


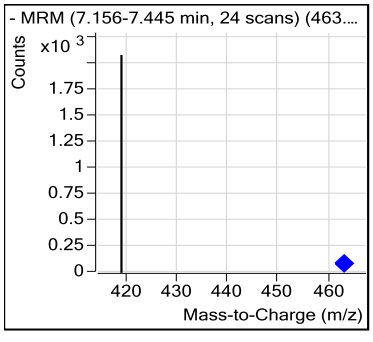




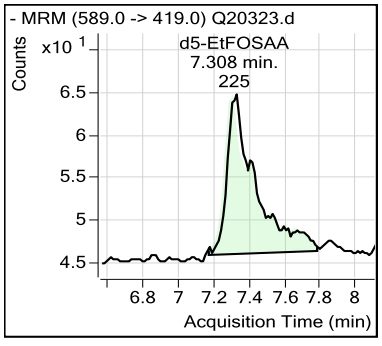
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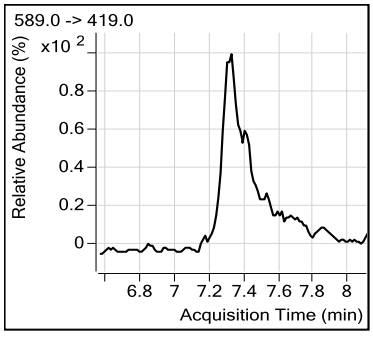


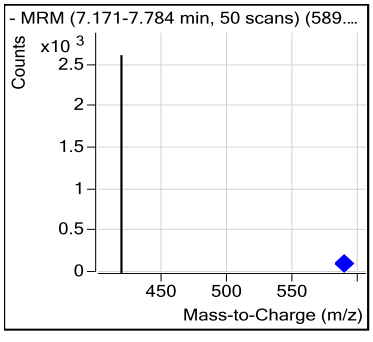




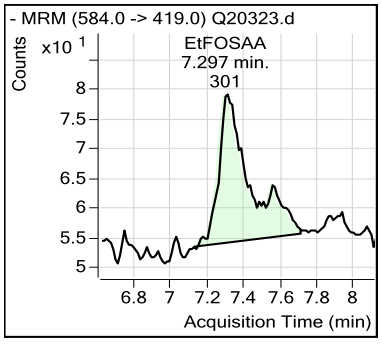
d5-EtFOSAA

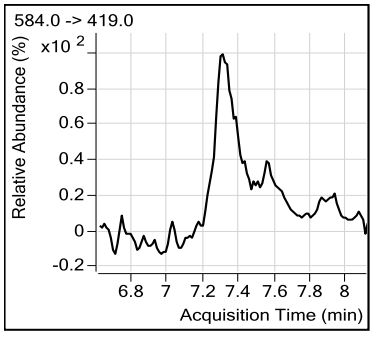


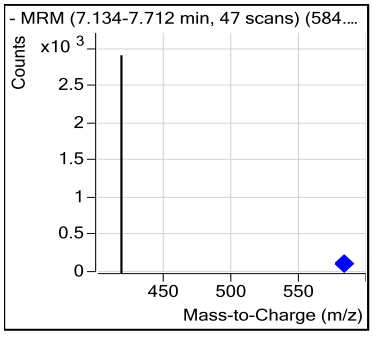




EtFOSAA

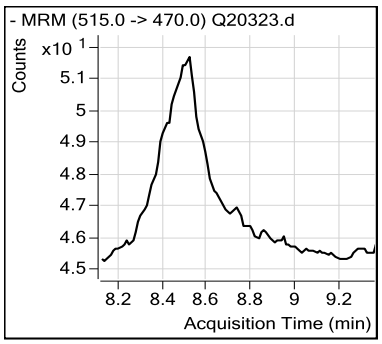


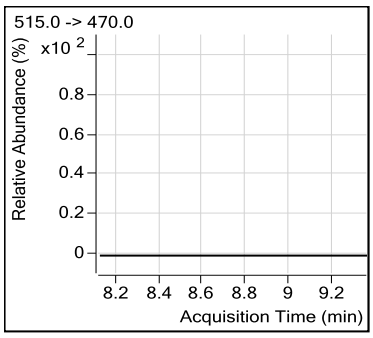


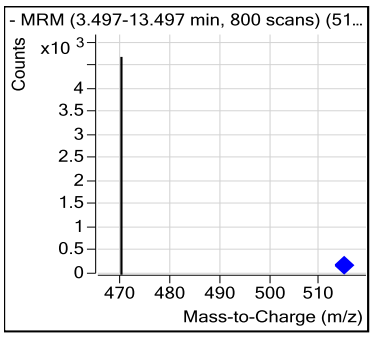


Perfluorinated Compounds by LC/MS/MS.

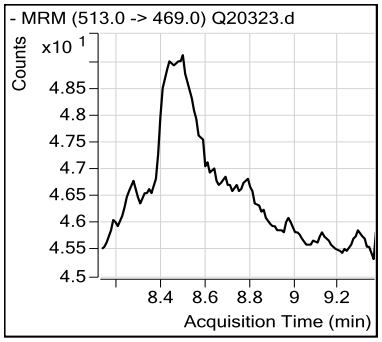
13C2-PFDA

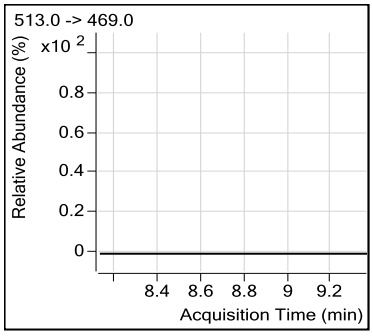


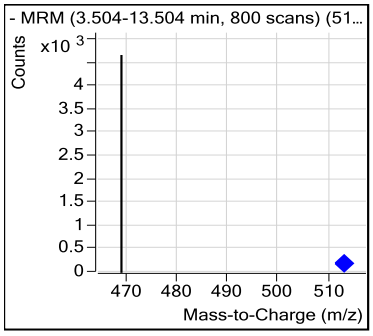




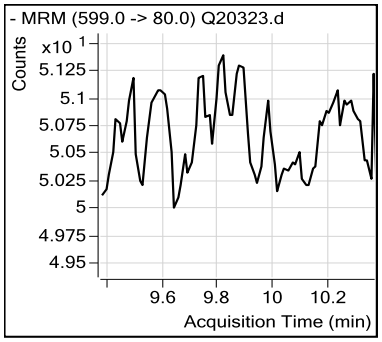
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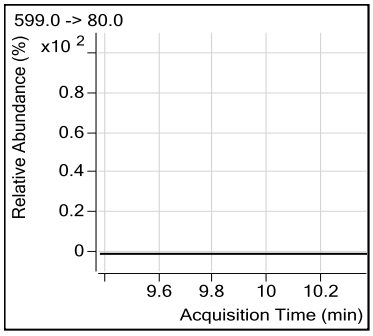


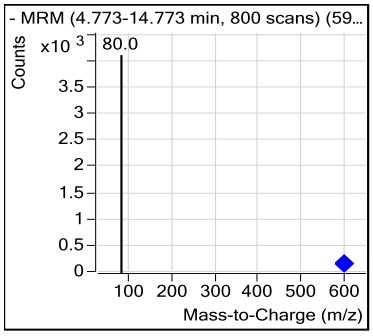




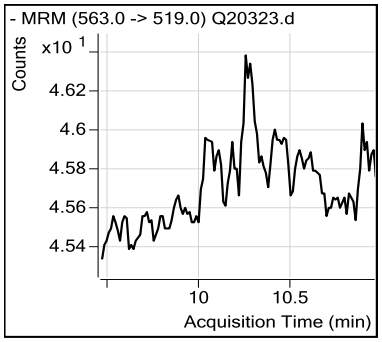
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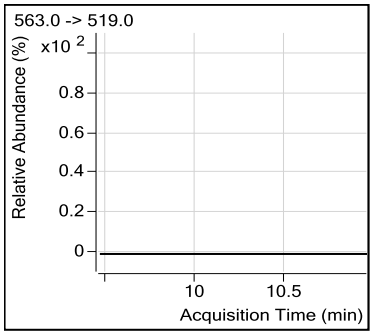


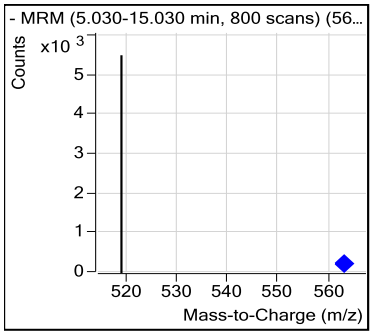




PFUnDA





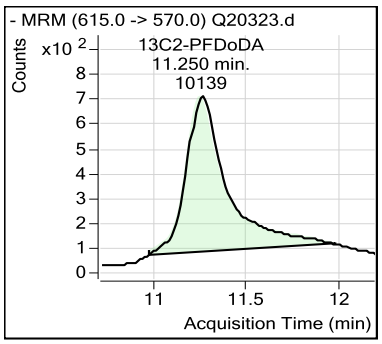


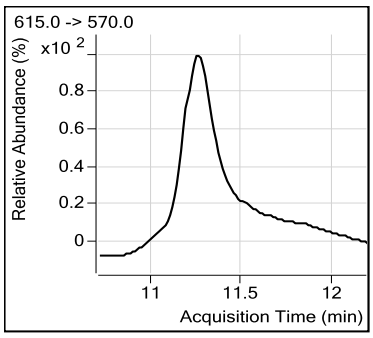
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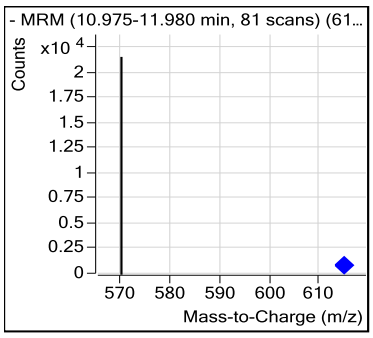
7

Perfluorinated Compounds by LC/MS/MS.

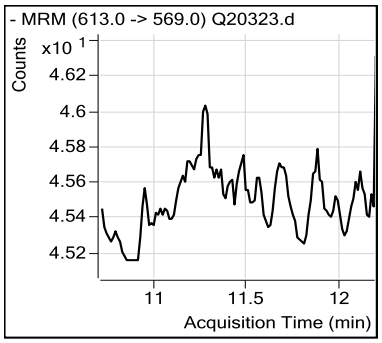
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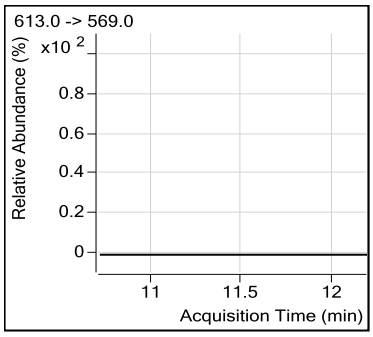


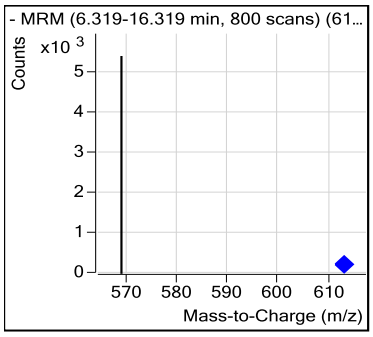




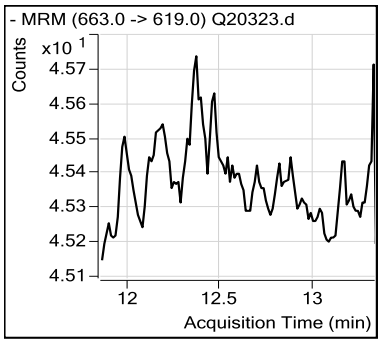
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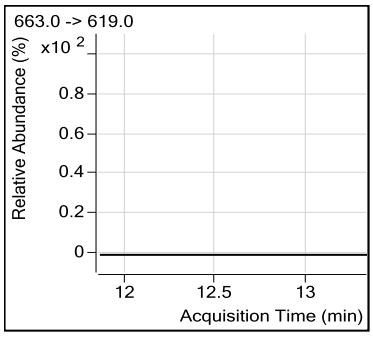


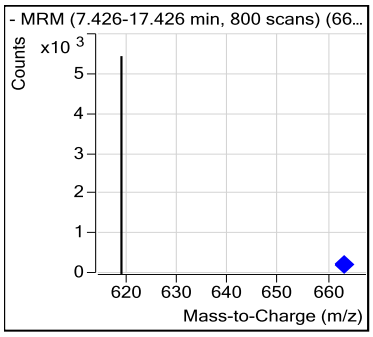




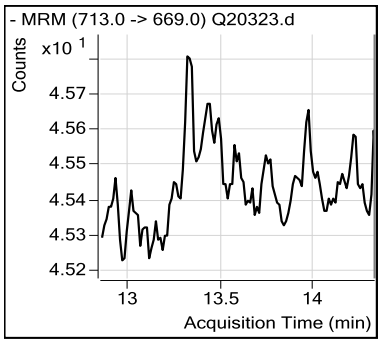
PFTrDA

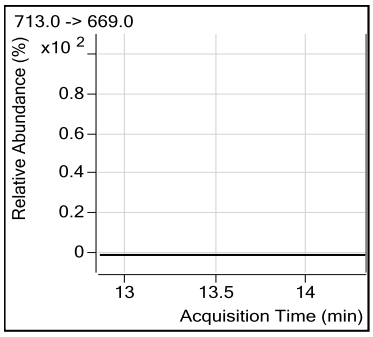


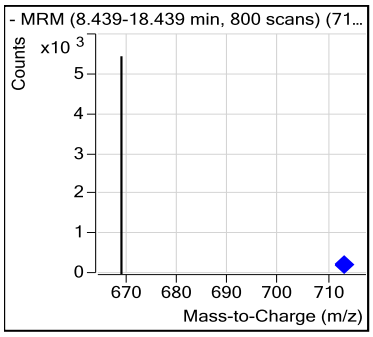




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-5	**Method:**	EPA 537 MOD
Lab FileID:	Q20323.D	**Analyst approved:**	04/14/16 13:33 Nancy Saunders
Injection Time:	04/13/16 18:14	**Supervisor approved:**	04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.18	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

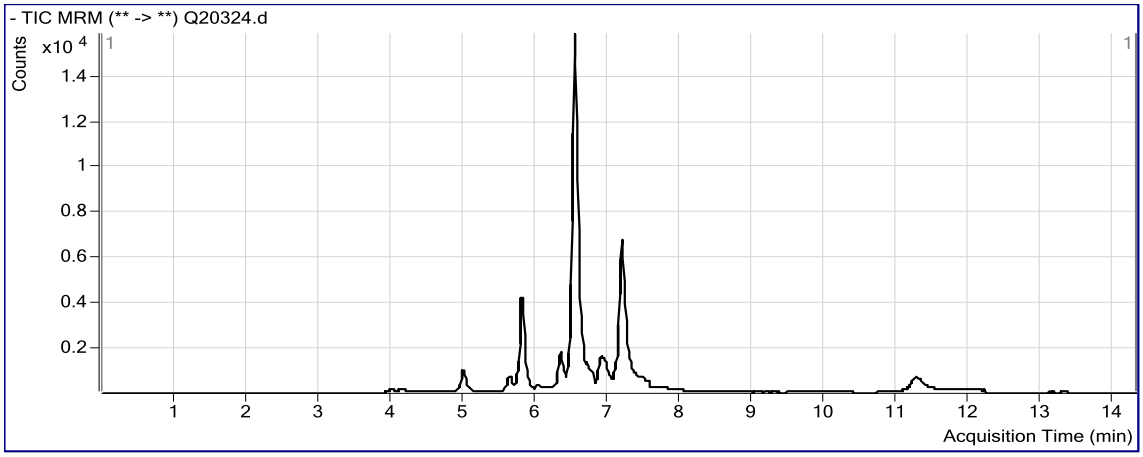
Data File	:	Q20324.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 18:36
Sample Name	:	FA32826-5
Vial	:	Vial 18
Sample Info	:	OP59984,SQ608,125,,,1.0,500,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	28756	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	11464	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	15885	20.000	µg/L		-0.012
13C2-PFDoDA	11.250	615.0 -> 570.0	10015	20.000	µg/L		-0.062
System Monitoring Compounds							
d5-EtFOSAA	7.321	589.0 -> 419.0	171	0.00	µg/L		0.025
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFPeA	3.999	263.0 -> 219.0	307	2.303	µg/L		100
PFBS	4.141	299.0 -> 80.0	374	1.396	µg/L		94
PFHxA	4.983	313.0 -> 269.0	4806	13.015	µg/L		98
PFHxS	5.793	399.0 -> 80.0	13622	29.122	µg/L	m	93
PFHpA	5.810	363.0 -> 319.0	2692	3.924	µg/L	#	70
PFOA	6.539	413.0 -> 369.0	50500	37.739	µg/L	# m	72
PFOS	7.178	499.0 -> 80.0	18974	23.129	µg/L	m	97
MeFOSAA	7.200	570.0 -> 419.0	176	0.000	µg/L		100
EtFOSAA	7.322	584.0 -> 419.0	258	0.000	µg/L		100

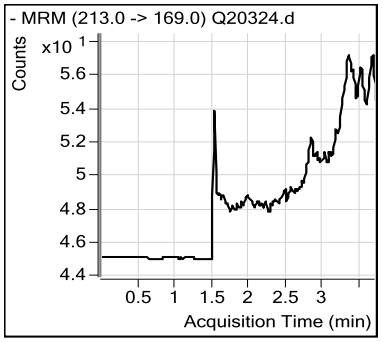
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

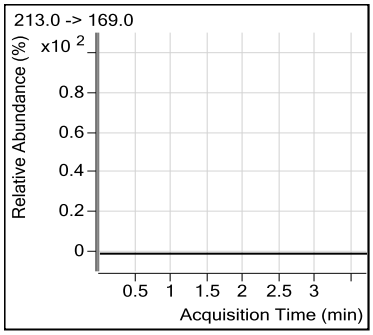
Perfluorinated Compounds by LC/MS/MS.

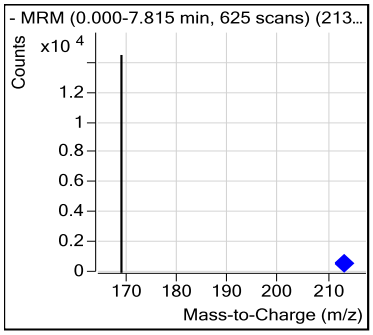
Data File	:	Q20324.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 18:36
Sample Name	:	FA32826-5
Vial	:	Vial 18
Sample Info	:	OP59984,SQ608,125,,,1.0,500,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



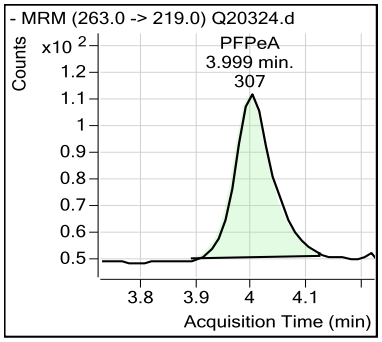
PFBA

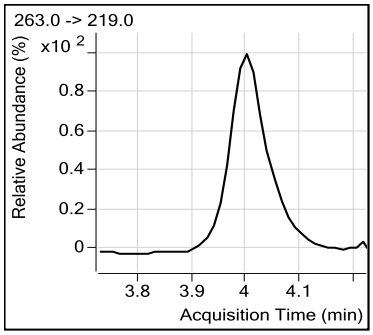


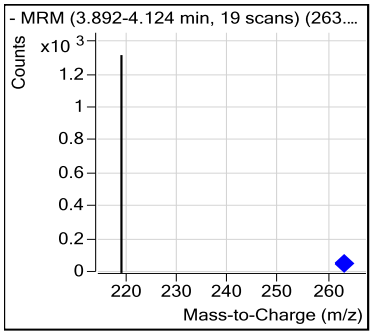




PFPeA

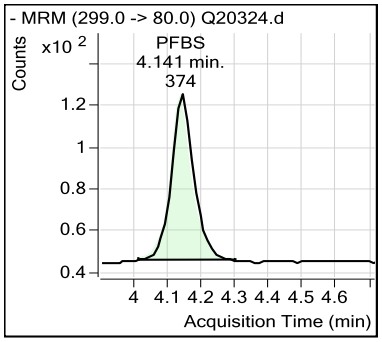


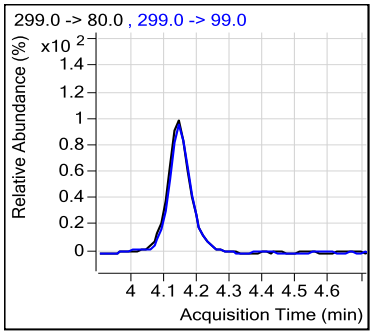


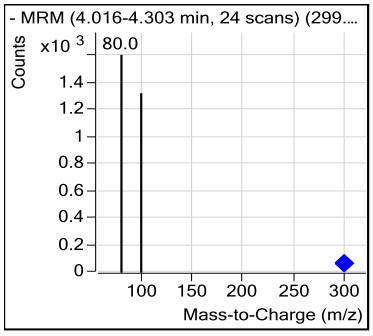


Perfluorinated Compounds by LC/MS/MS.

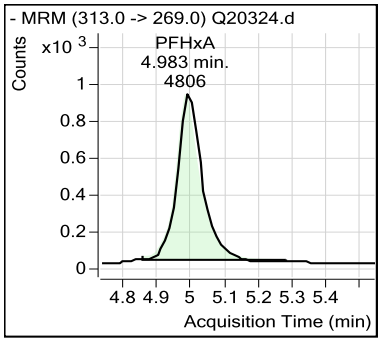
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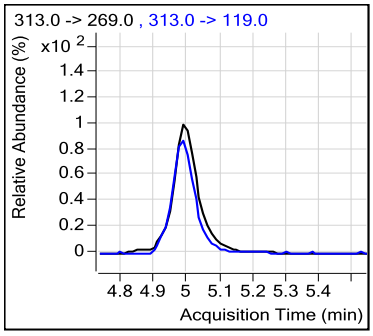


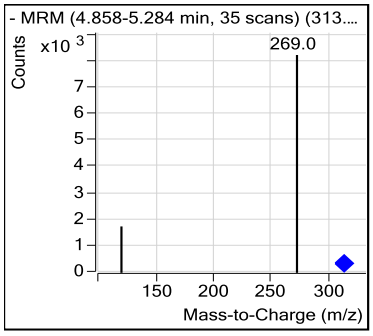




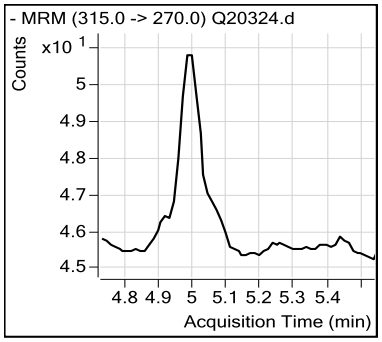
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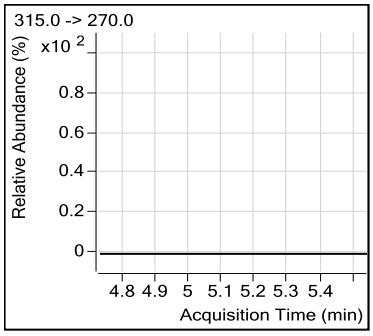


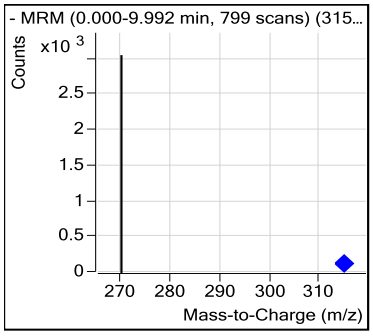




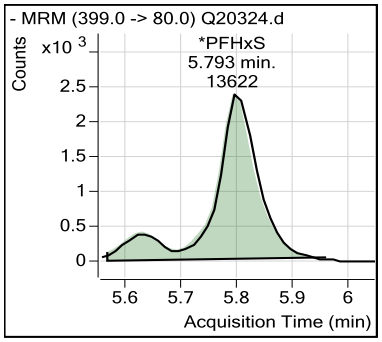
13C2-PFHxA

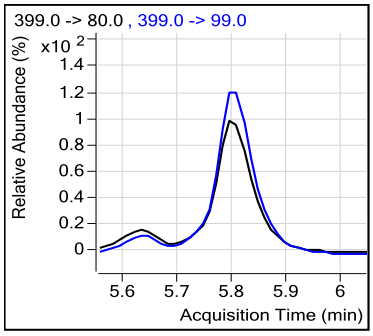


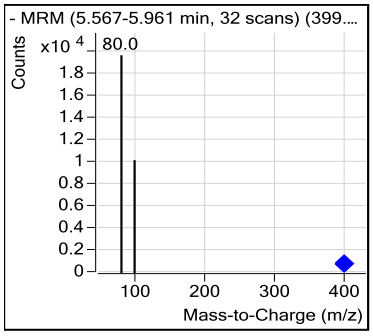




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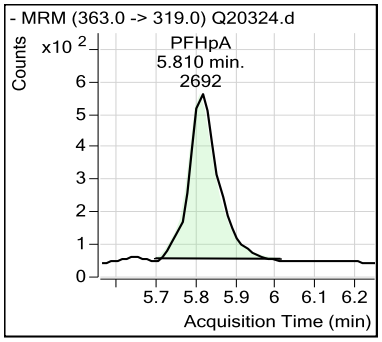


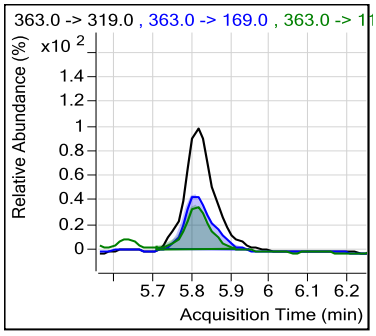


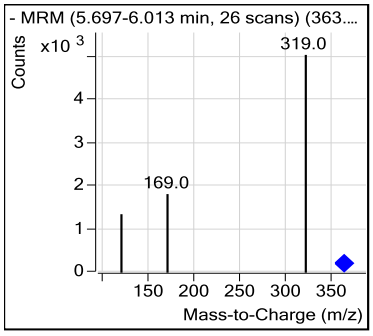


Perfluorinated Compounds by LC/MS/MS.

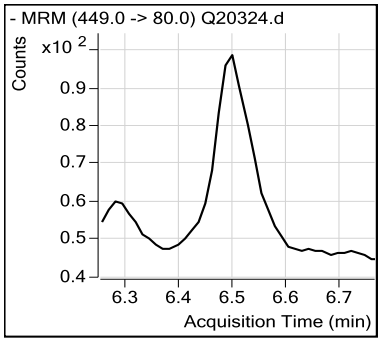
PFHpA

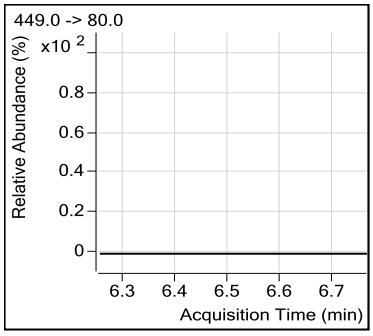


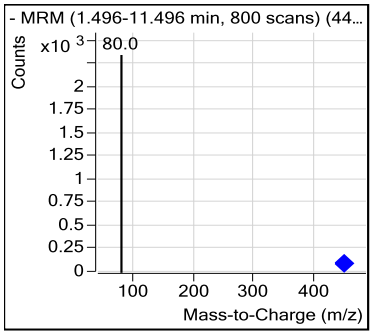




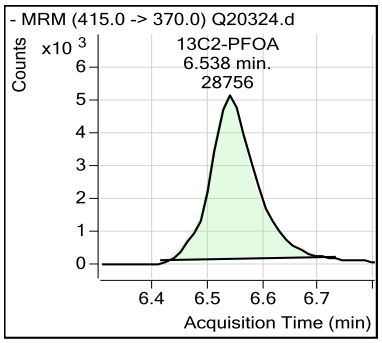
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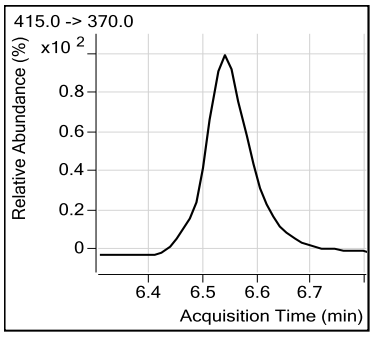


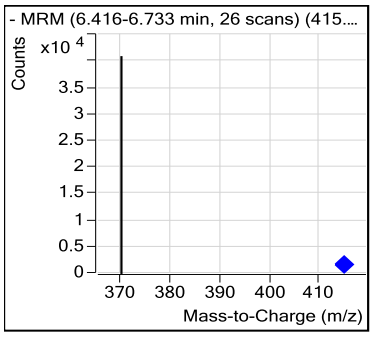




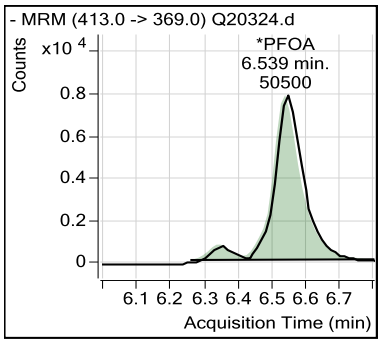
13C2-PFOA

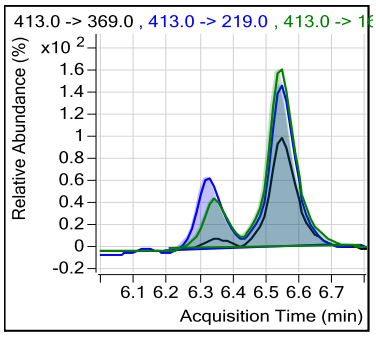


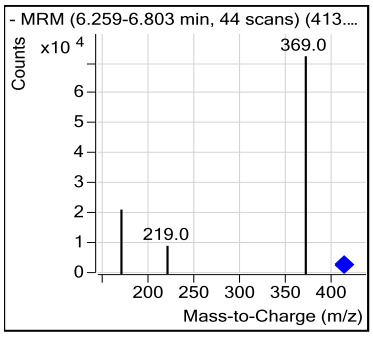




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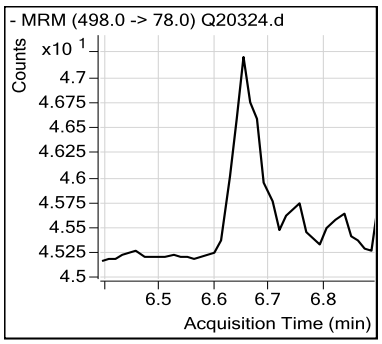


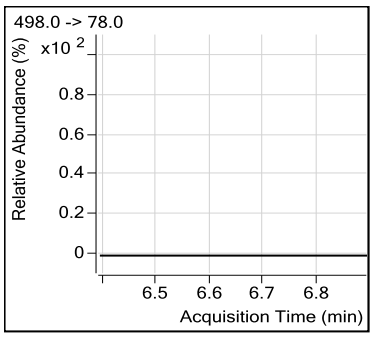


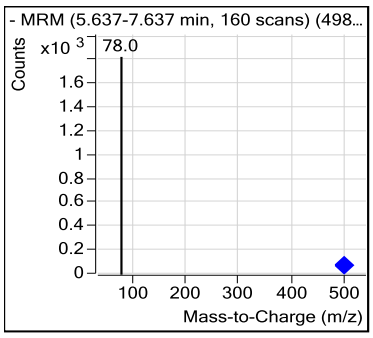


Perfluorinated Compounds by LC/MS/MS.

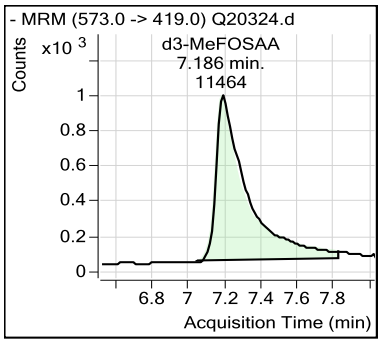
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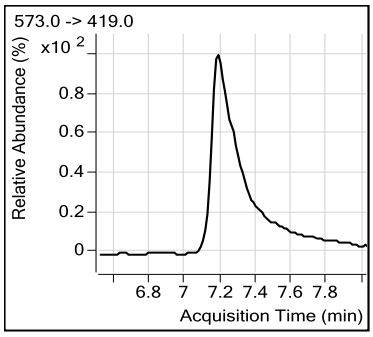


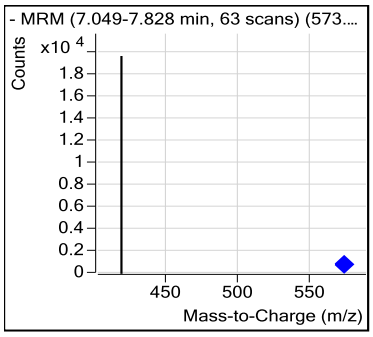




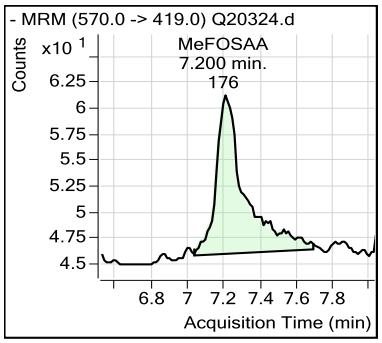
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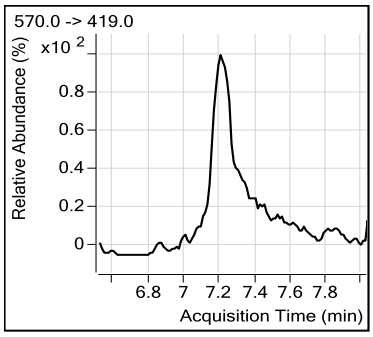


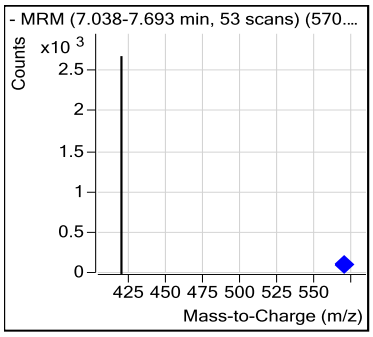




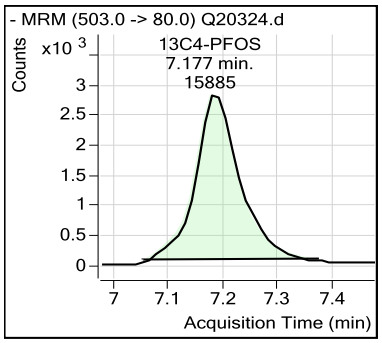
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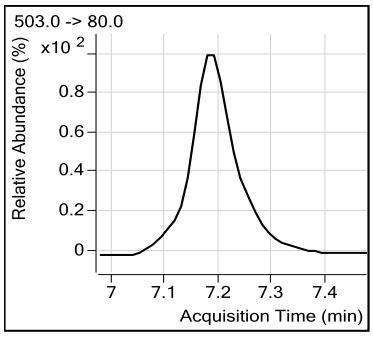


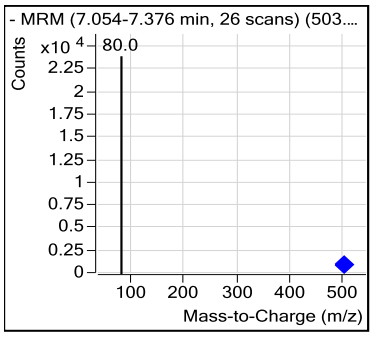




13C4-PFOS





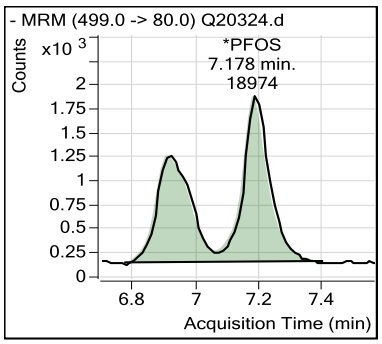


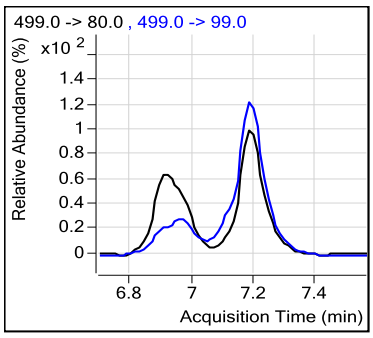
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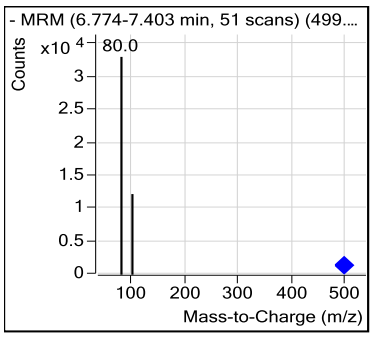
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Perfluorinated Compounds by LC/MS/MS.

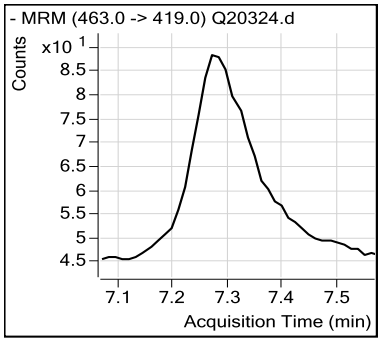
PFOS

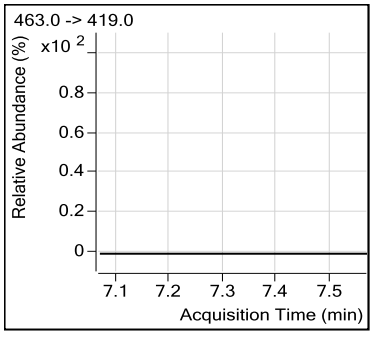


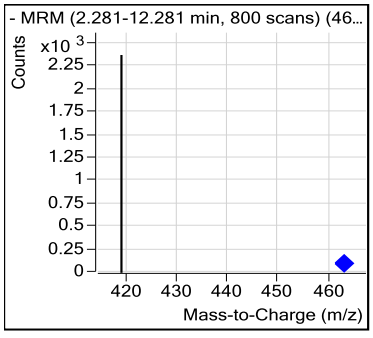




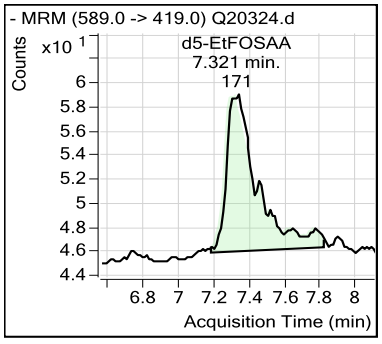
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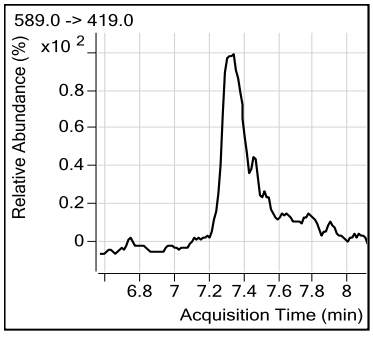


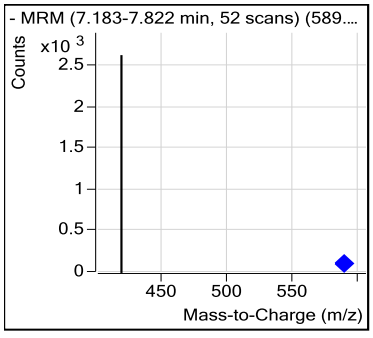




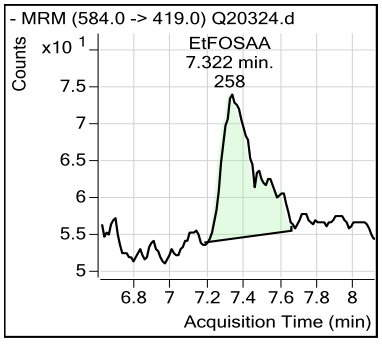
d5-EtFOSAA

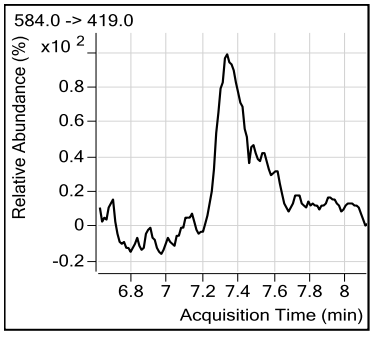


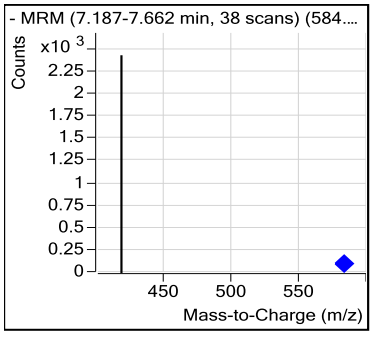




EtFOSAA





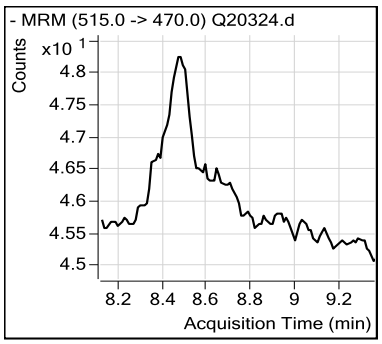


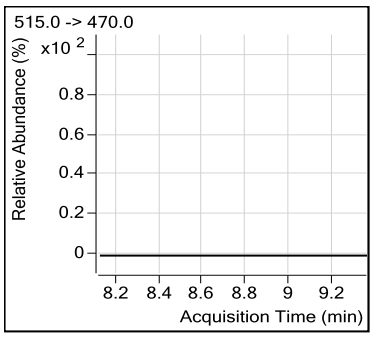
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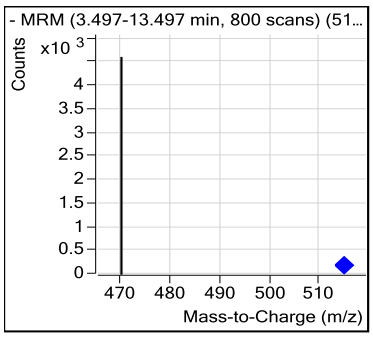
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Perfluorinated Compounds by LC/MS/MS.

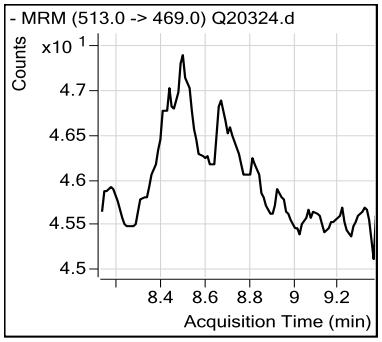
13C2-PFDA

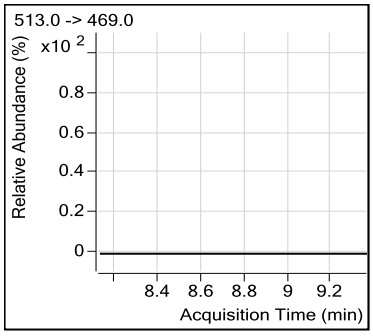


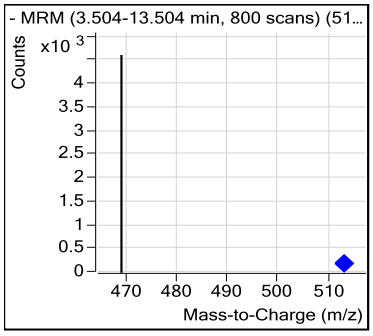




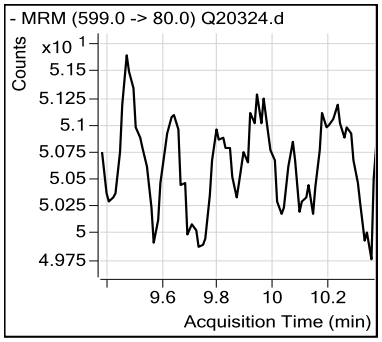
PFDA

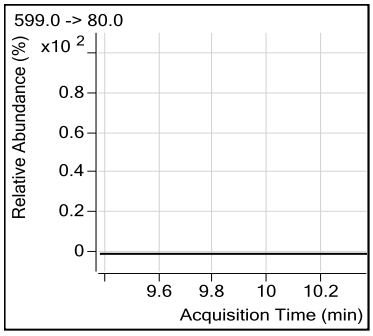


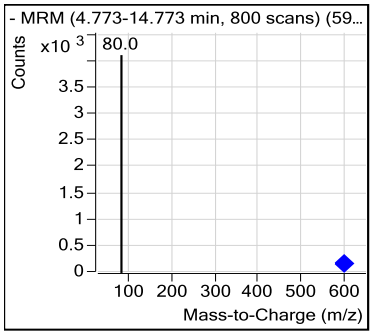




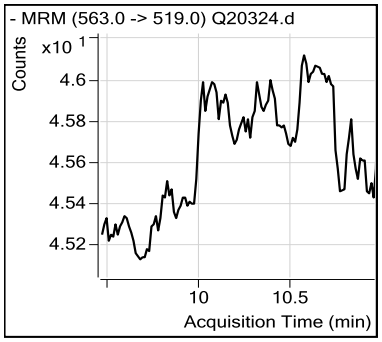
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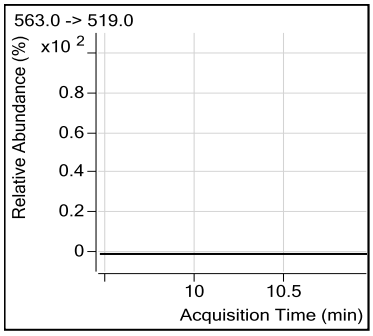


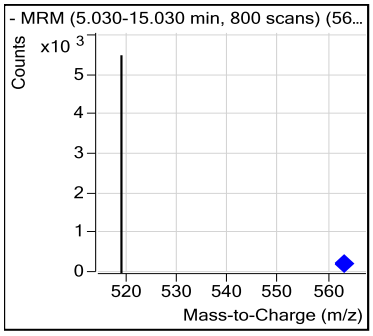




PFUnDA

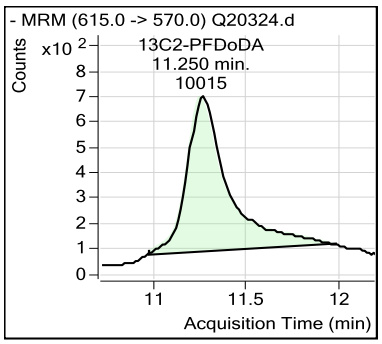


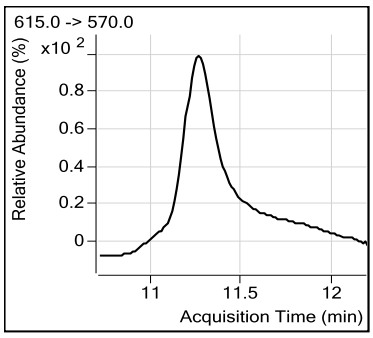


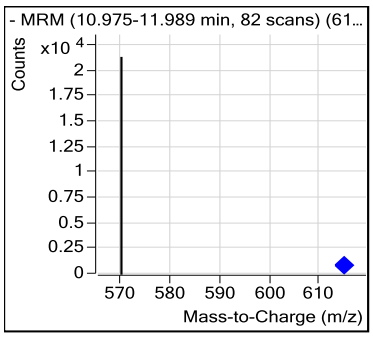


Perfluorinated Compounds by LC/MS/MS.

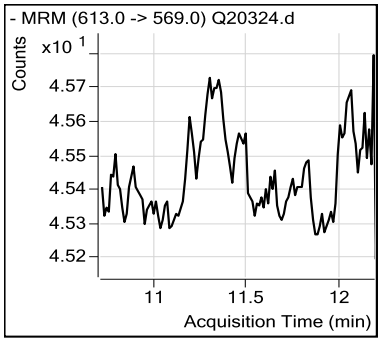
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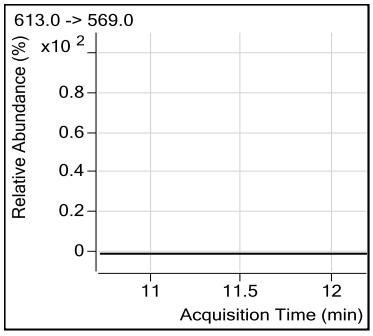


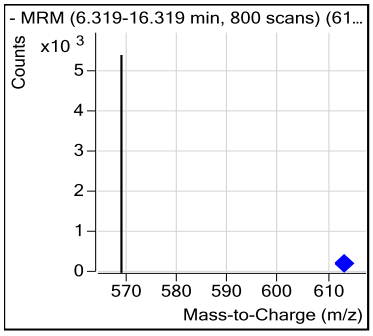




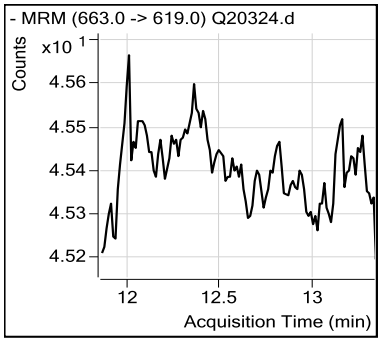
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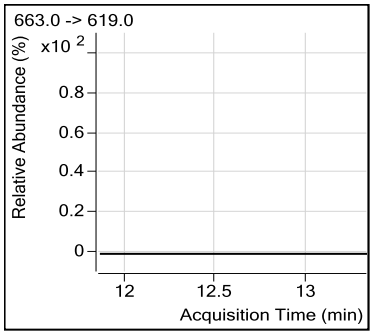


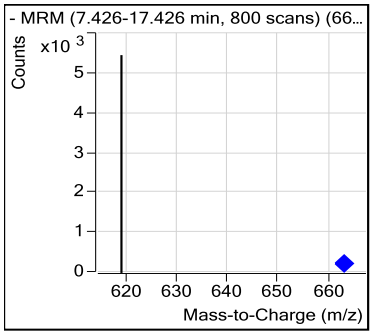




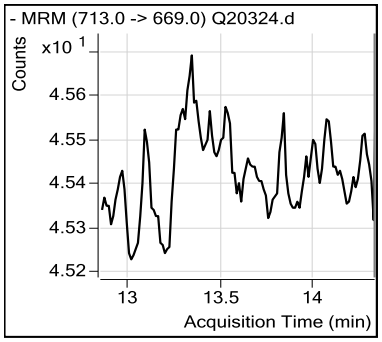
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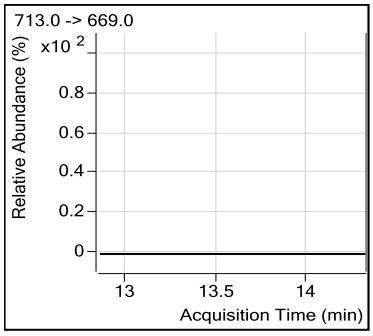


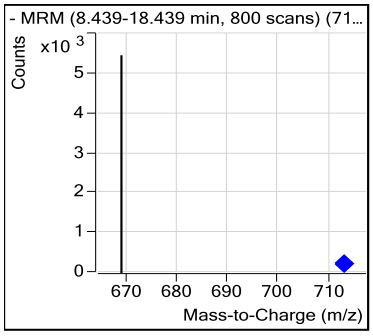




PFTeDA







7.1.8

7

Manual Integration Approval Summary

Sample Number:	FA32826-5	**Method:**	EPA 537 MOD
Lab FileID:	Q20324.D	**Analyst approved:**	04/14/16 13:33 Nancy Saunders
Injection Time:	04/13/16 18:36	**Supervisor approved:**	04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.18	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20325.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 18:57
Sample Name	:	FA32826-6
Vial	:	Vial 19
Sample Info	:	OP59984,SQ608,130,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

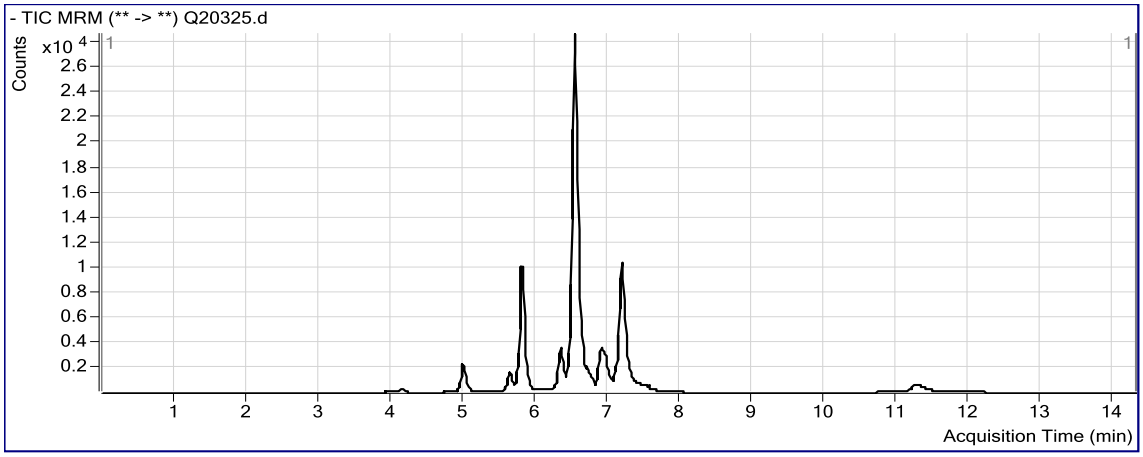
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	29085	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	10343	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	15855	20.000	µg/L		-0.012
13C2-PFDoDA	11.263	615.0 -> 570.0	10025	20.000	µg/L		-0.050
System Monitoring Compounds							
d5-EtFOSAA	7.321	589.0 -> 419.0	135	0.00	µg/L		0.025
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFBA	3.315	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	3.999	263.0 -> 219.0	706	5.234	µg/L		100
PFBS	4.141	299.0 -> 80.0	827	3.093	µg/L		97
PFHxA	4.983	313.0 -> 269.0	11064	29.625	µg/L		98
PFHxS	5.793	399.0 -> 80.0	30427	65.169	µg/L	m	85
PFHpA	5.810	363.0 -> 319.0	6721	9.685	µg/L	#	69
PFHpS	6.496	449.0 -> 80.0	580	1.142	µg/L		100
PFOA	6.539	413.0 -> 369.0	119009	87.931	µg/L	# m	76
PFOS	7.178	499.0 -> 80.0	45420	55.472	µg/L	m	100
MeFOSAA	7.200	570.0 -> 419.0	125	0.000	µg/L		100
PFNA	7.269	463.0 -> 419.0	706	1.072	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	217	0.000	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

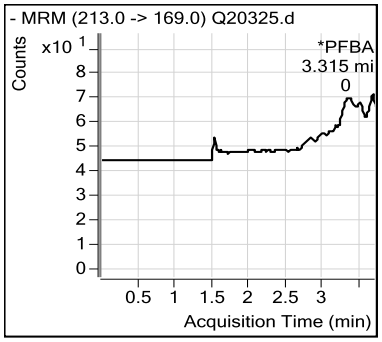
7.1.9
7

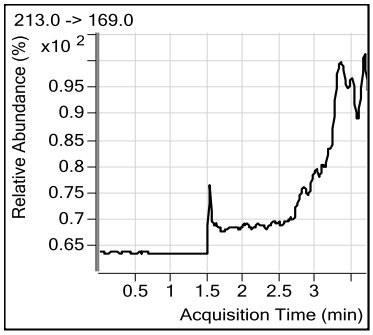
Perfluorinated Compounds by LC/MS/MS.

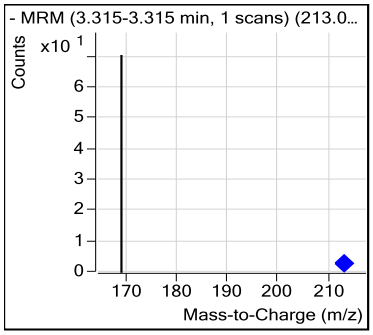
Data File	:	Q20325.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 18:57
Sample Name	:	FA32826-6
Vial	:	Vial 19
Sample Info	:	OP59984,SQ608,130,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



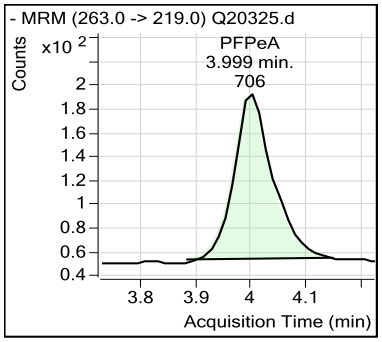
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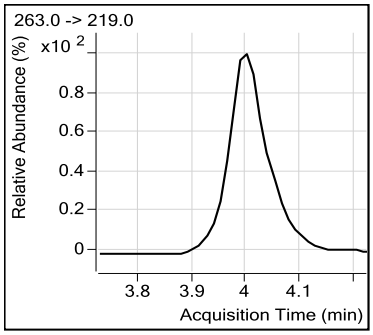


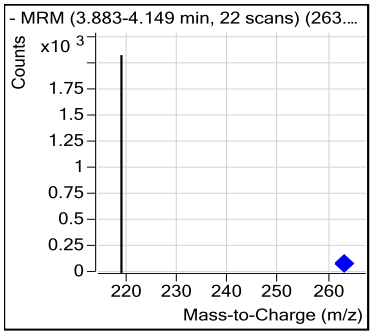




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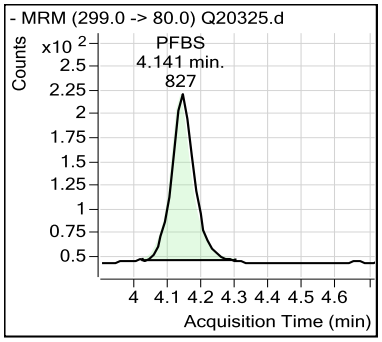


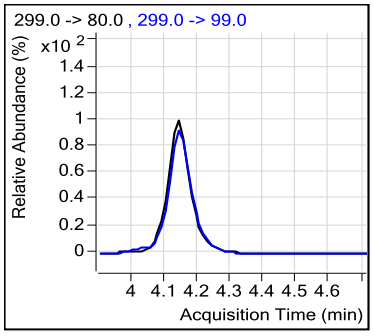


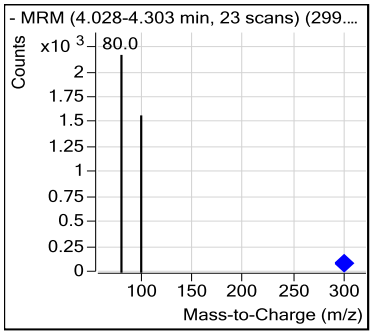


Perfluorinated Compounds by LC/MS/MS.

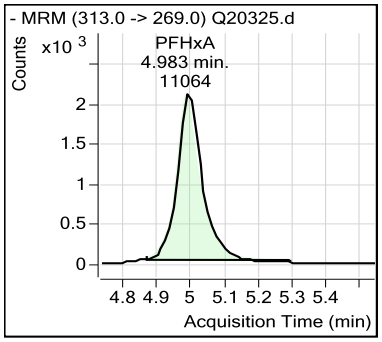
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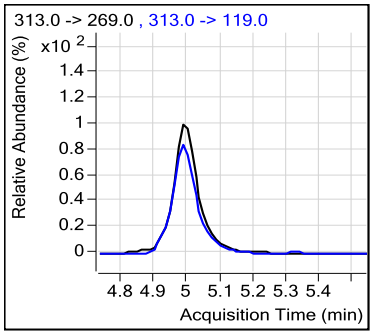


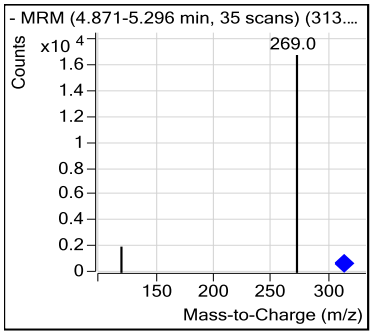




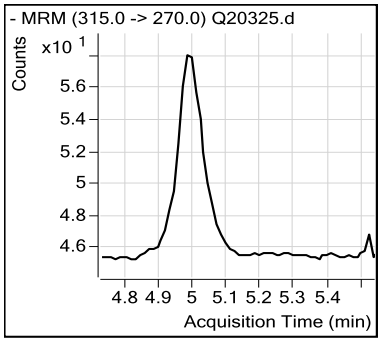
PFHxA

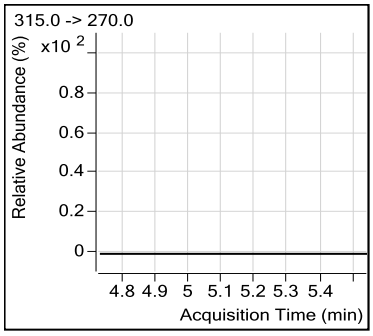


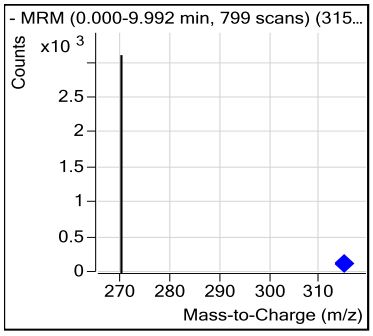




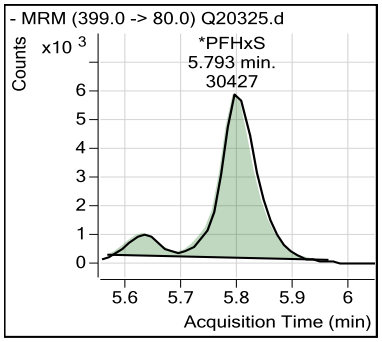
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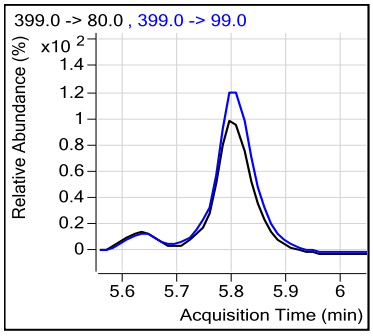


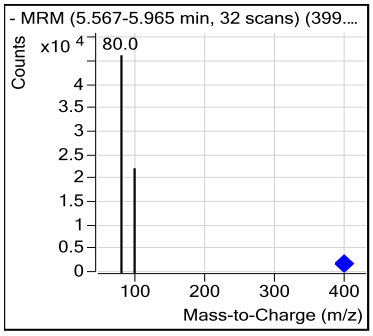




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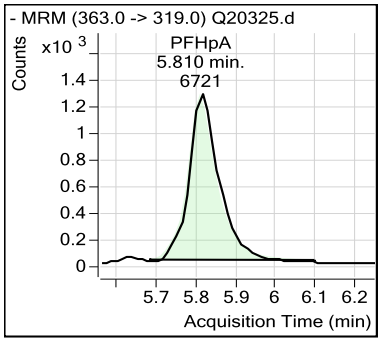


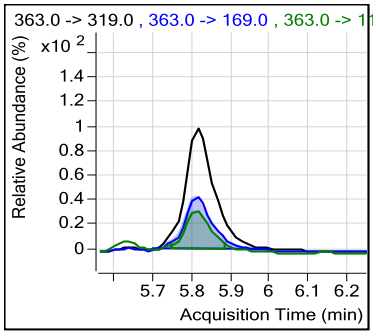


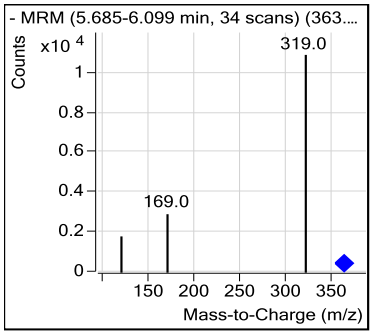


Perfluorinated Compounds by LC/MS/MS.

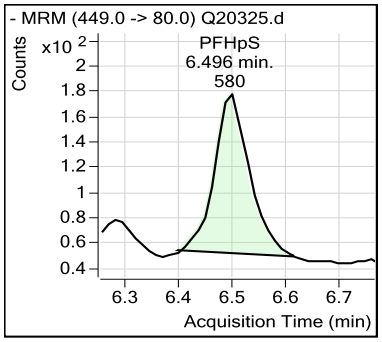
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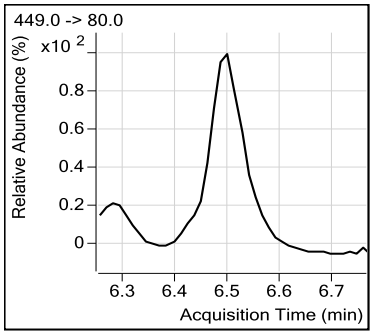


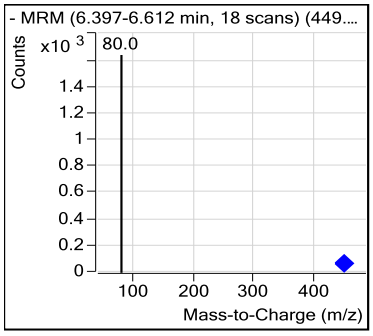




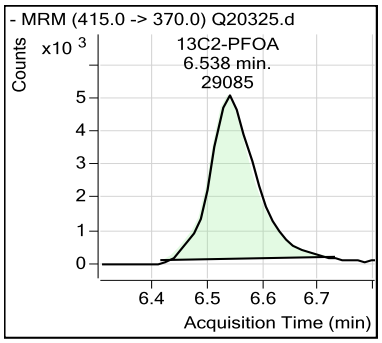
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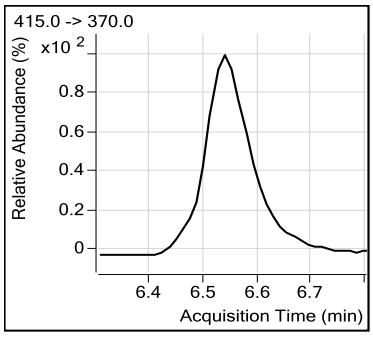


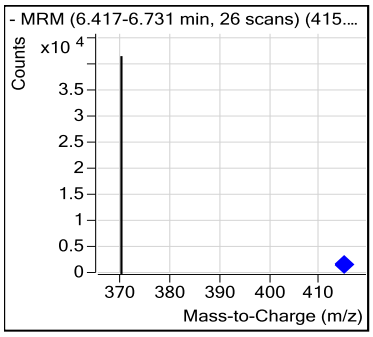




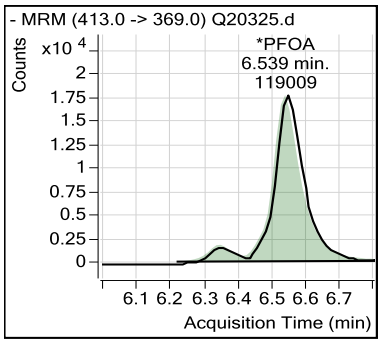
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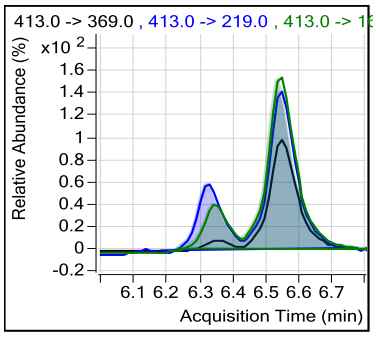


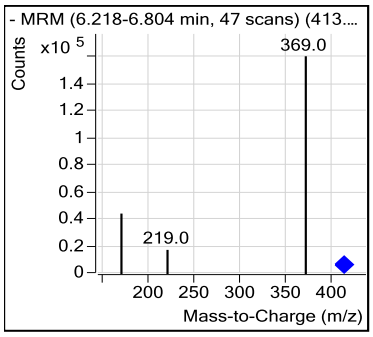




PFOA





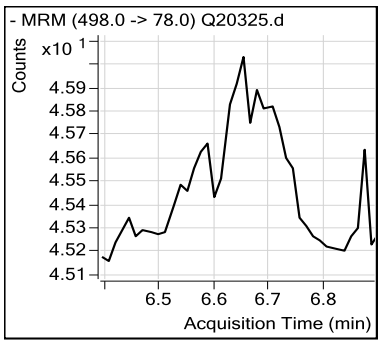


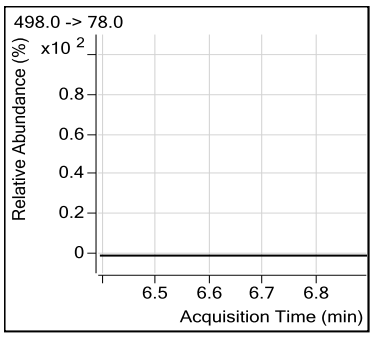
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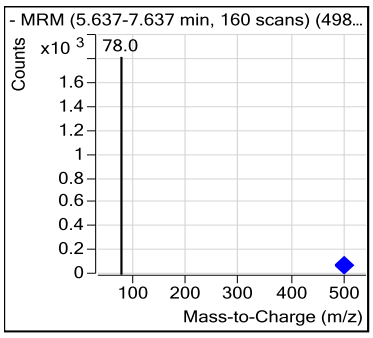
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Perfluorinated Compounds by LC/MS/MS.

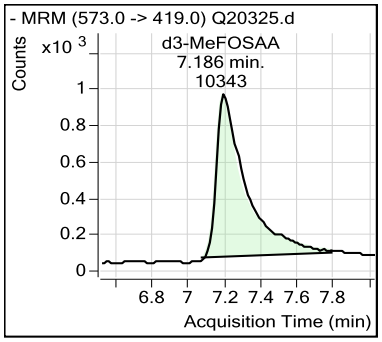
PFOSA

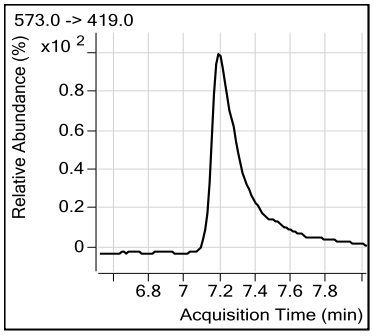


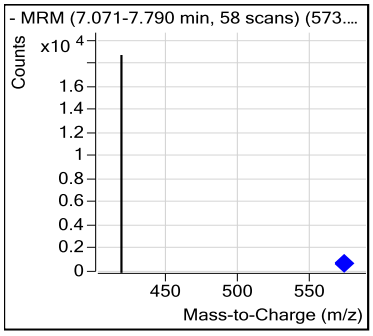




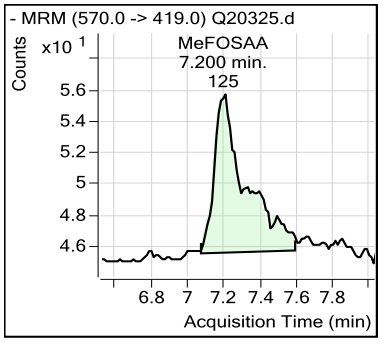
d3-MeFOSAA

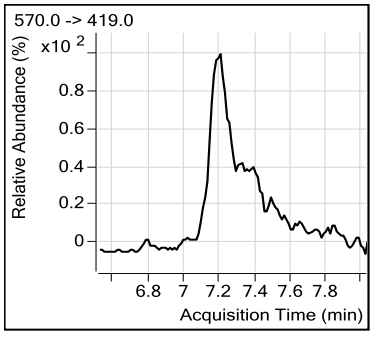


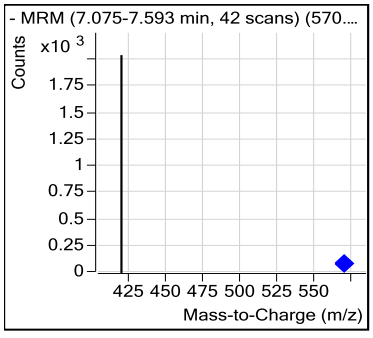




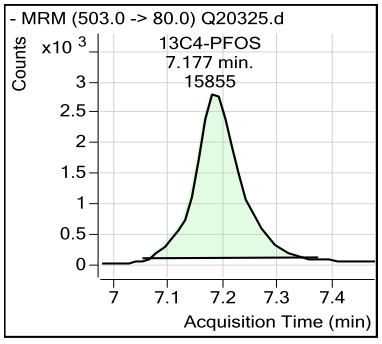
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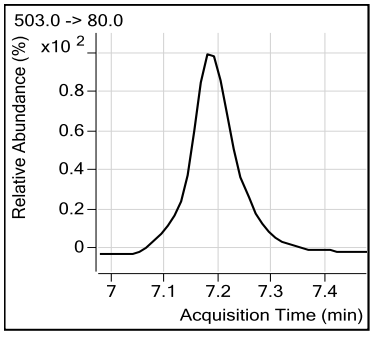


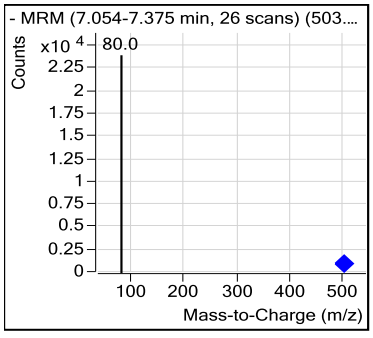




13C4-PFOS

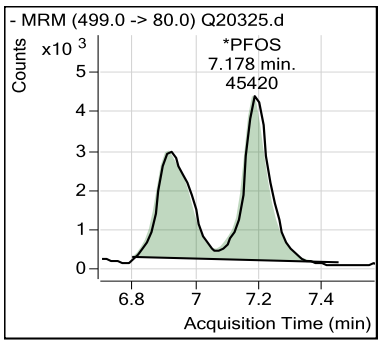


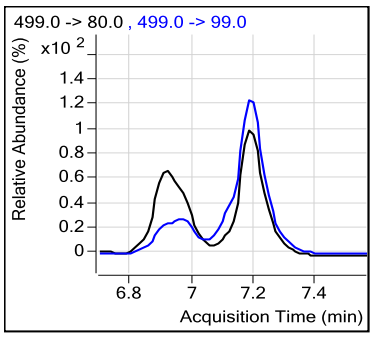


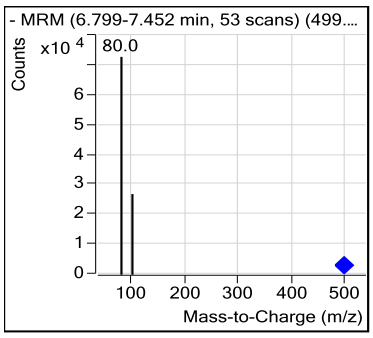


Perfluorinated Compounds by LC/MS/MS.

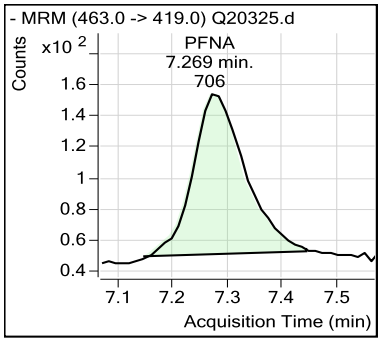
PFOS

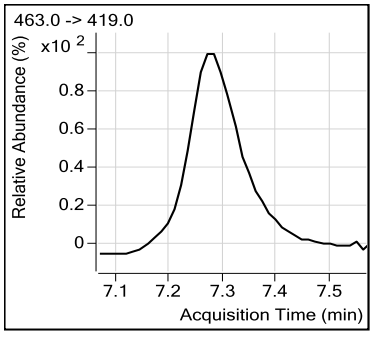


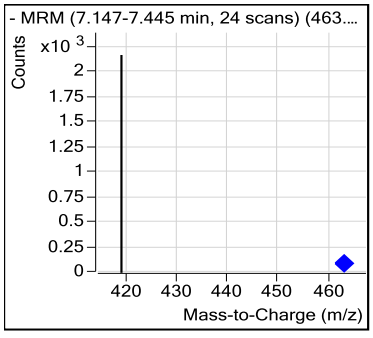




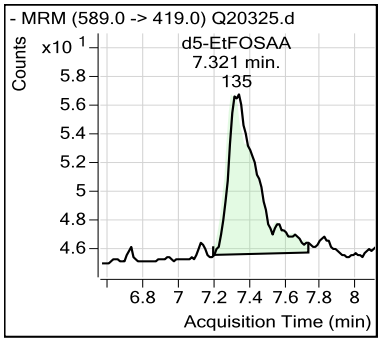
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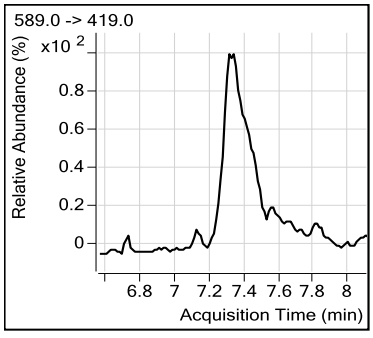


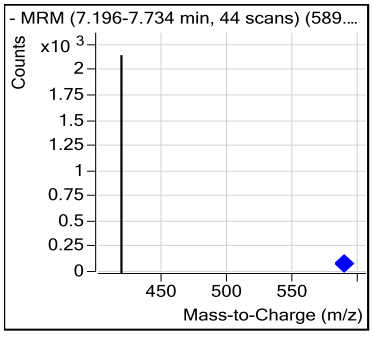




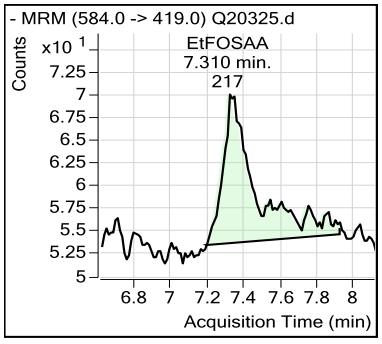
d5-EtFOSAA

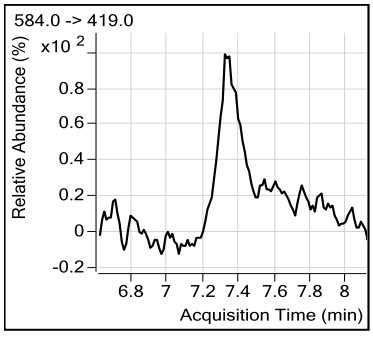


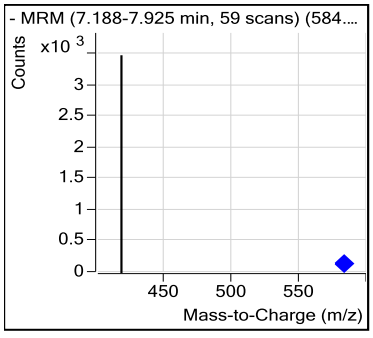




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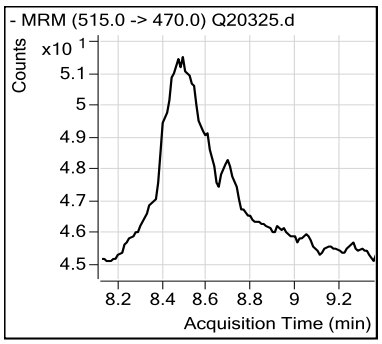


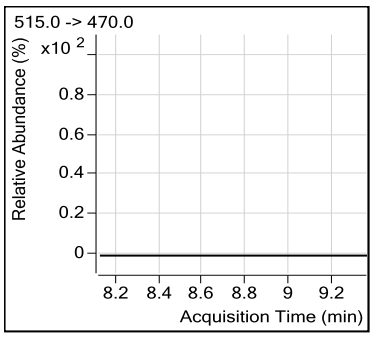


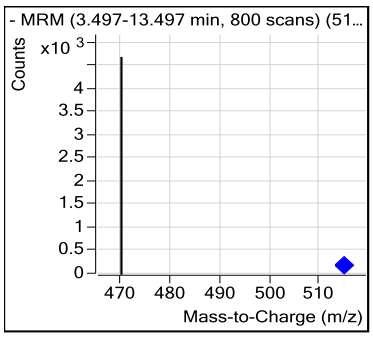


Perfluorinated Compounds by LC/MS/MS.

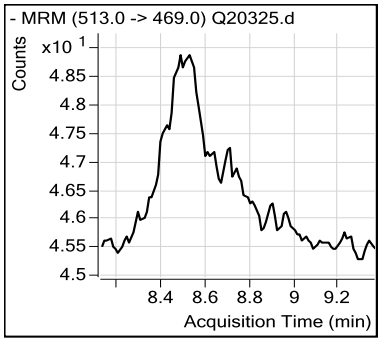
13C2-PFDA

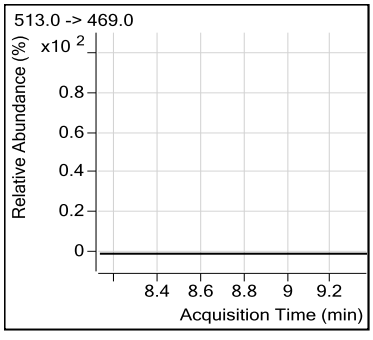


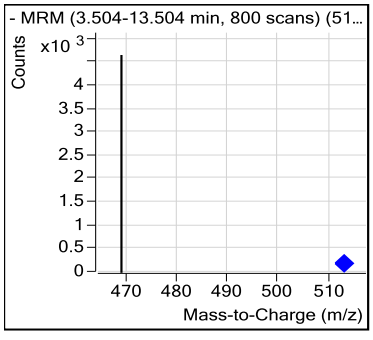




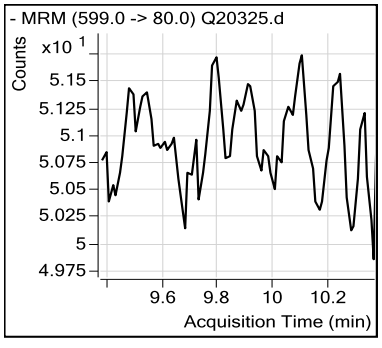
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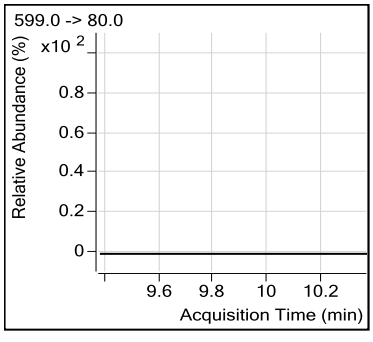


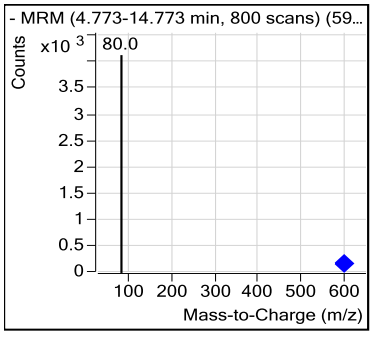




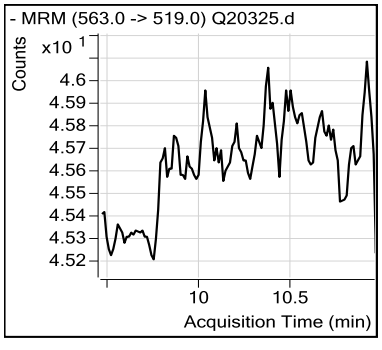
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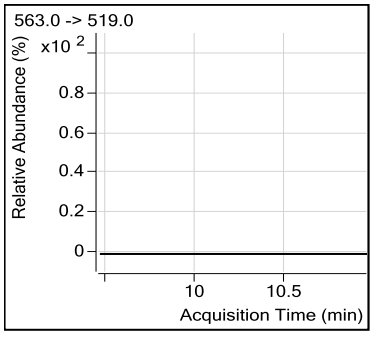


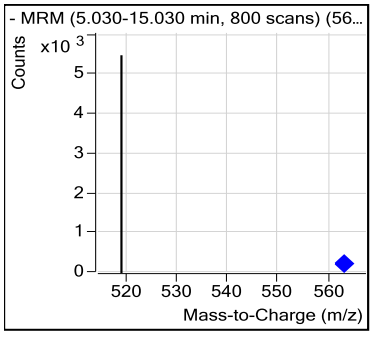




PFUnDA

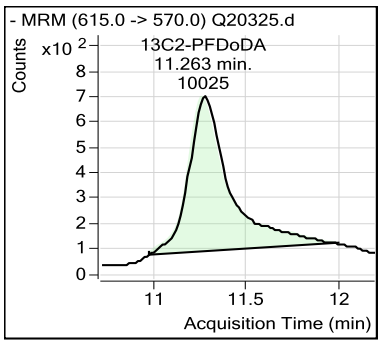


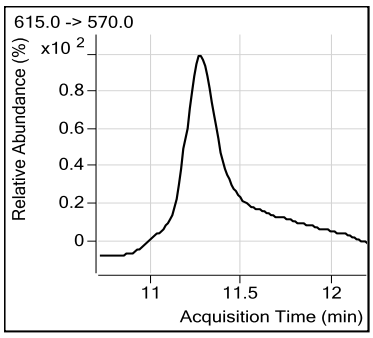


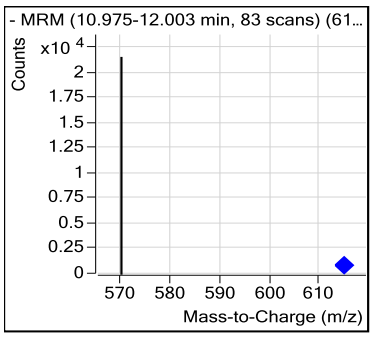


Perfluorinated Compounds by LC/MS/MS.

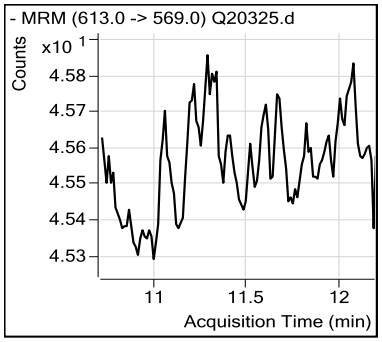
13C2-PFDoDA

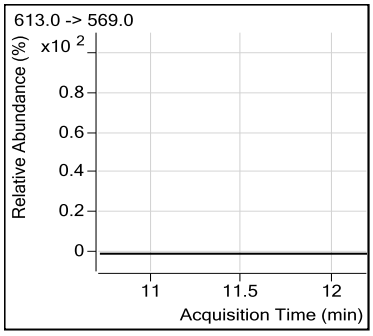


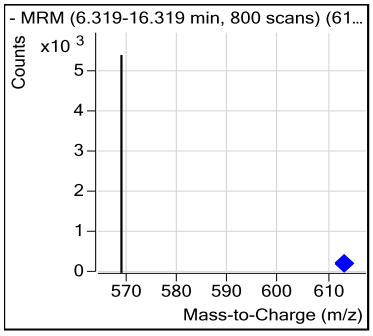




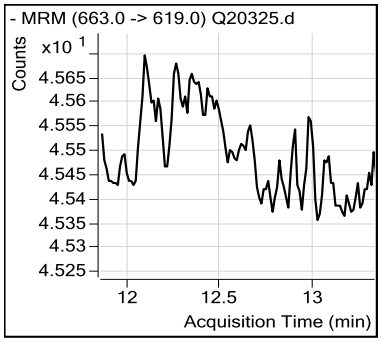
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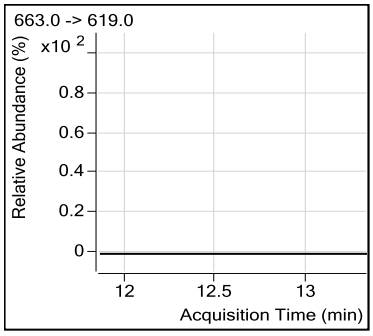


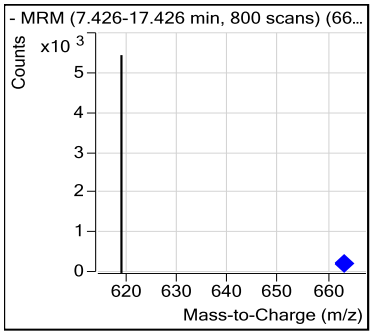




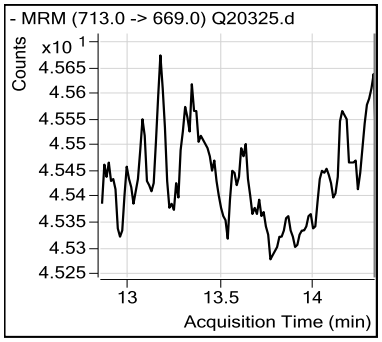
PFTrDA

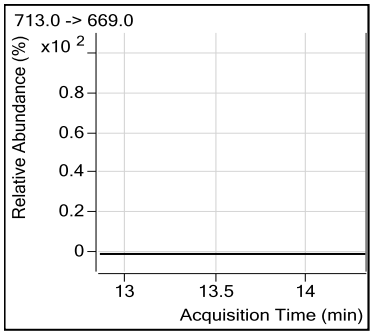


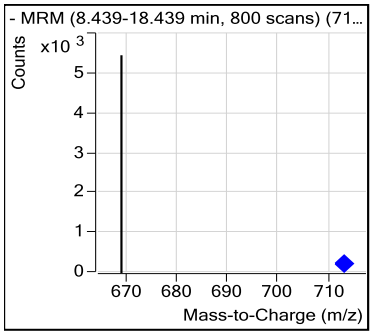




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-6	**Method:**	EPA 537 MOD
Lab FileID:	Q20325.D	**Analyst approved:**	04/14/16 13:33 Nancy Saunders
Injection Time:	04/13/16 18:57	**Supervisor approved:**	04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.18	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

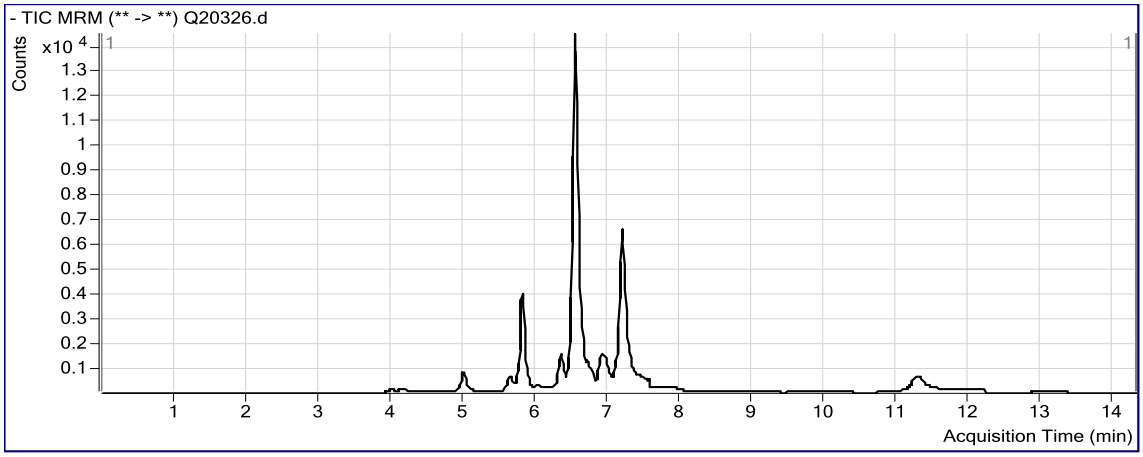
Data File	:	Q20326.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 19:18
Sample Name	:	FA32826-6
Vial	:	Vial 20
Sample Info	:	OP59984,SQ608,130,,,1.0,500,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	27547	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	11431	40.000	µg/L		0.000
13C4-PFOS	7.189	503.0 -> 80.0	15508	20.000	µg/L		0.000
13C2-PFDoDA	11.263	615.0 -> 570.0	9864	20.000	µg/L		-0.050
System Monitoring Compounds							
d5-EtFOSAA	7.296	589.0 -> 419.0	104	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFPeA	3.999	263.0 -> 219.0	231	1.806	µg/L		100
PFBS	4.141	299.0 -> 80.0	295	1.129	µg/L		96
PFHxA	4.996	313.0 -> 269.0	4056	11.467	µg/L		98
PFHxS	5.805	399.0 -> 80.0	11526	25.239	µg/L	m	86
PFHpA	5.810	363.0 -> 319.0	2449	3.726	µg/L	#	69
PFOA	6.539	413.0 -> 369.0	46683	36.417	µg/L	# m	76
MeFOSAA	7.188	570.0 -> 419.0	90	0.000	µg/L		100
PFOS	7.191	499.0 -> 80.0	18535	23.144	µg/L	m	98
EtFOSAA	7.297	584.0 -> 419.0	133	0.000	µg/L		100

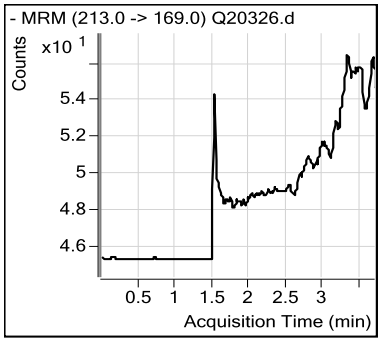
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

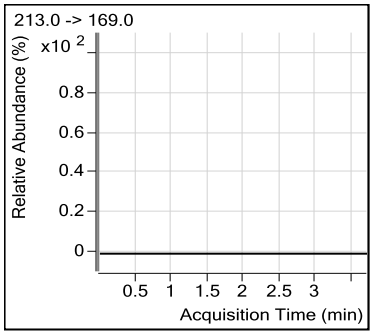
Perfluorinated Compounds by LC/MS/MS.

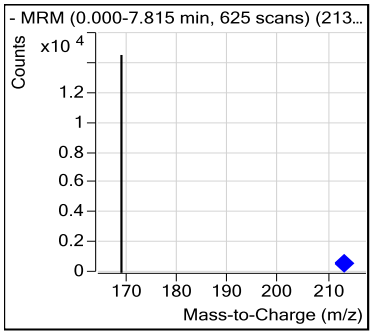
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 19:18
Sample Name	:	FA32826-6
Vial	:	Vial 20
Sample Info	:	OP59984,SQ608,130,,,1.0,500,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



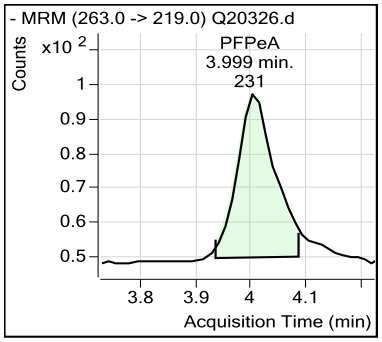
PFBA

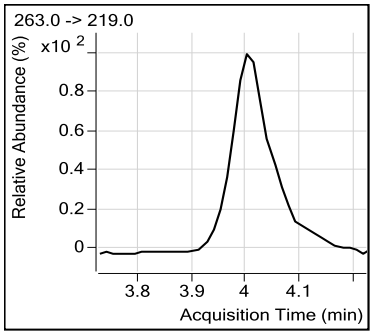


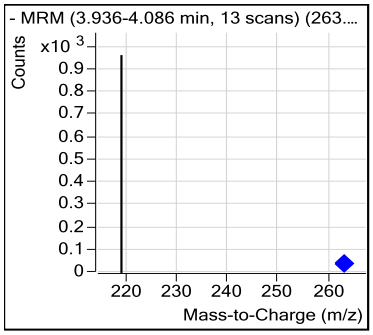




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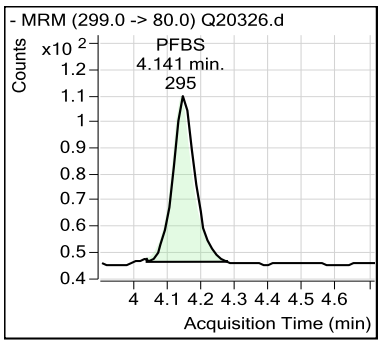


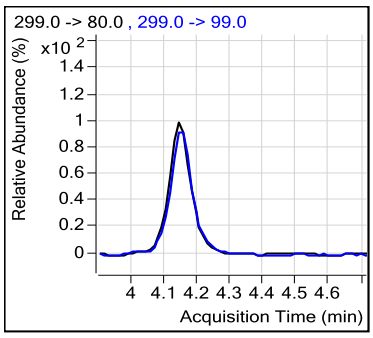


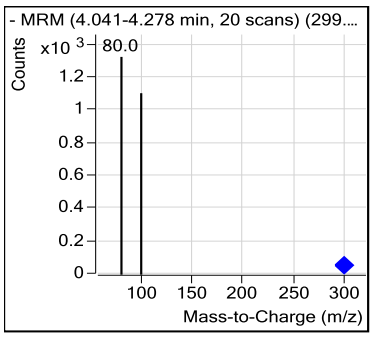


Perfluorinated Compounds by LC/MS/MS.

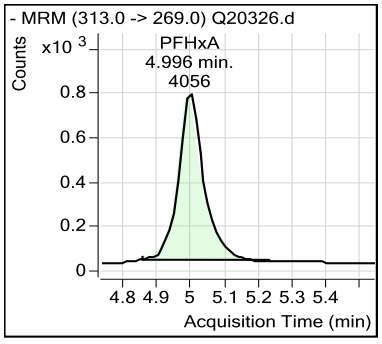
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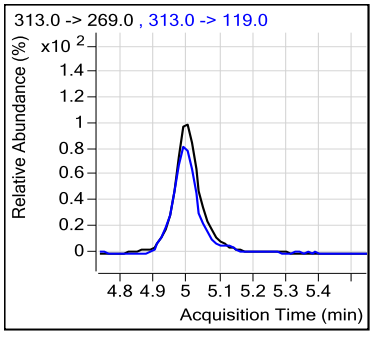


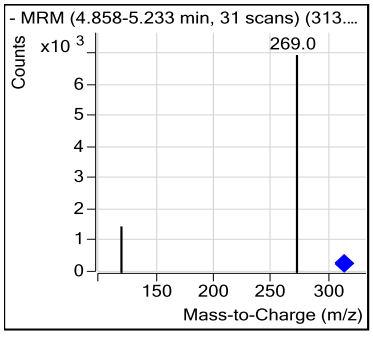




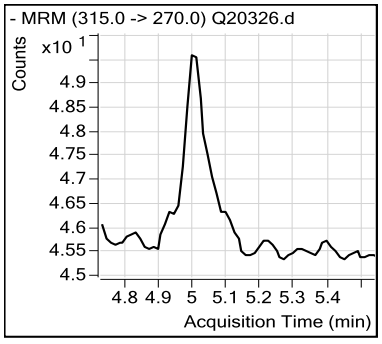
PFHxA

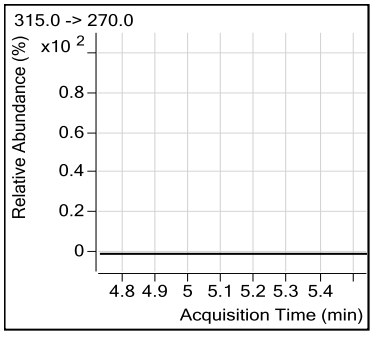


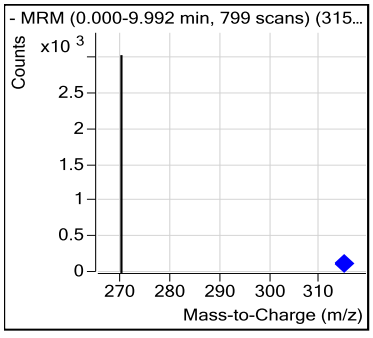




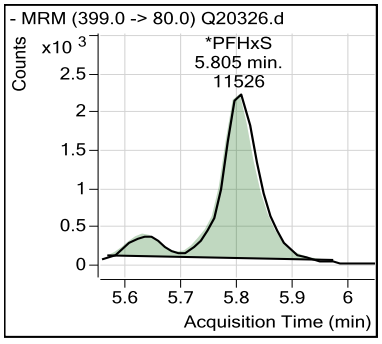
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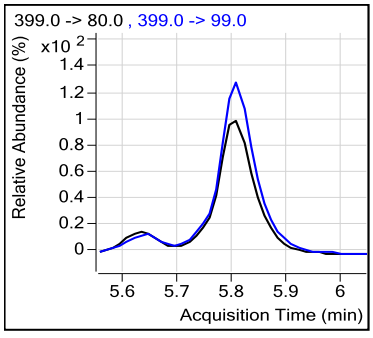


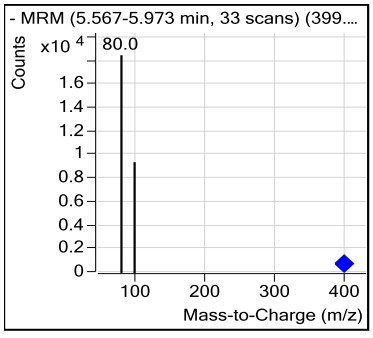




PFHxS

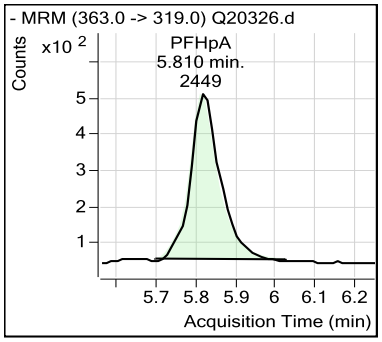


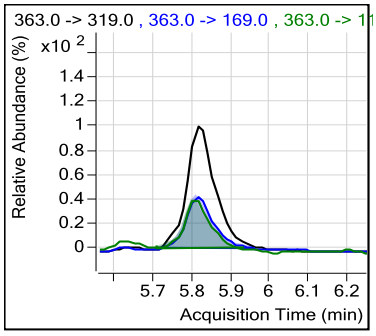


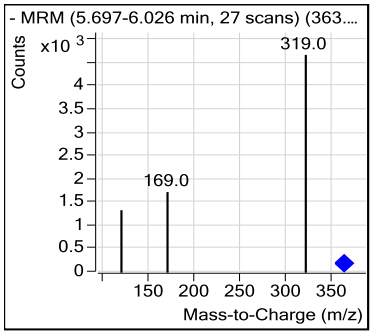


Perfluorinated Compounds by LC/MS/MS.

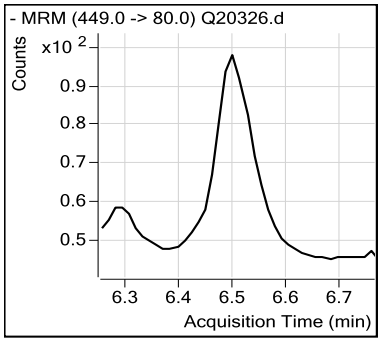
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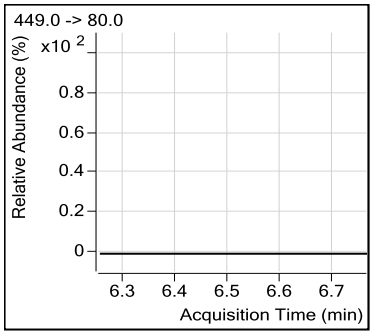


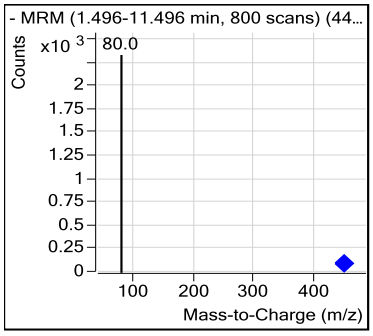




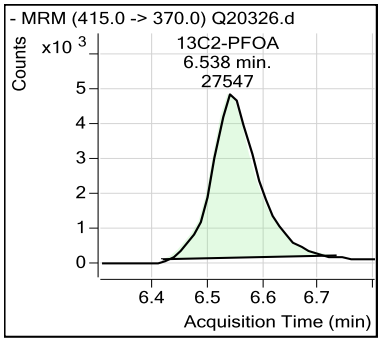
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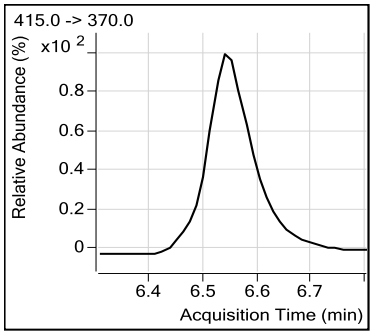


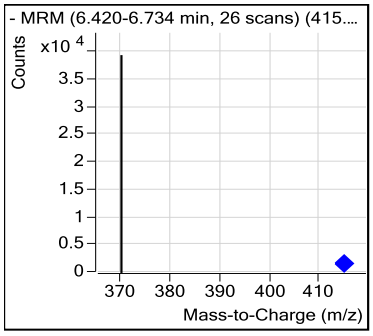




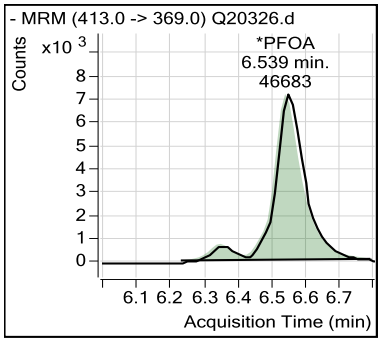
13C2-PFOA

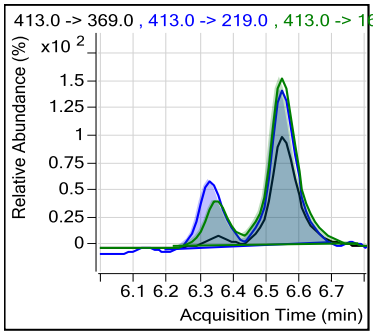


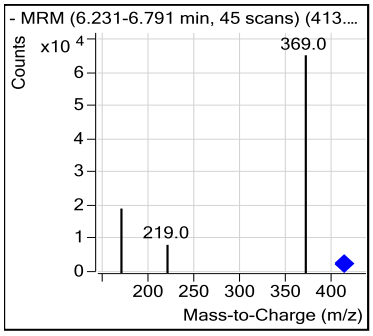




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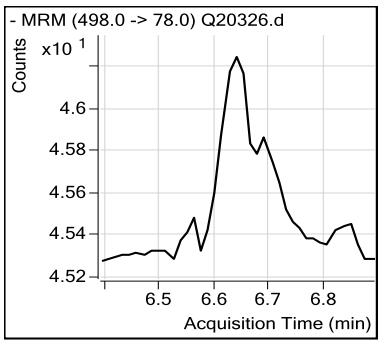


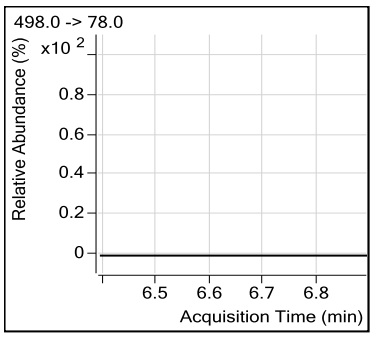


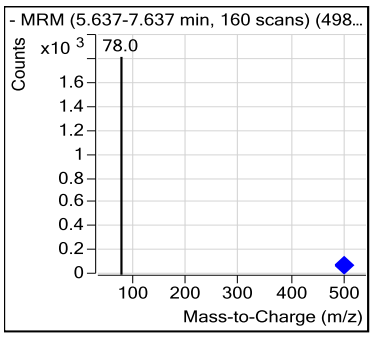


Perfluorinated Compounds by LC/MS/MS.

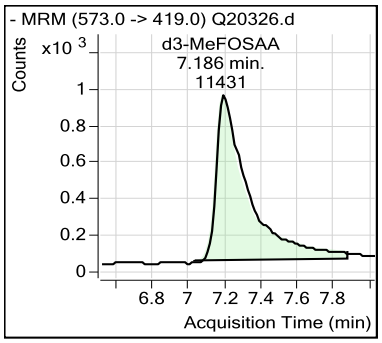
PFOSA

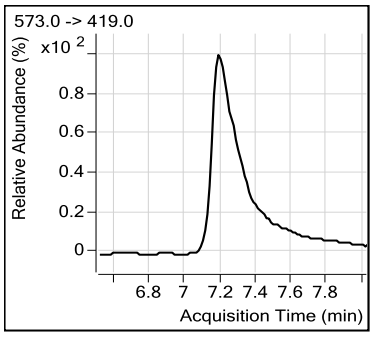


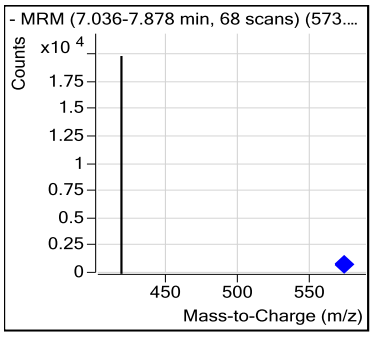




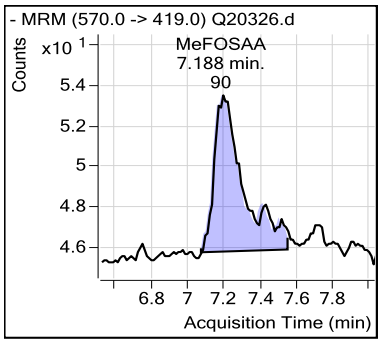
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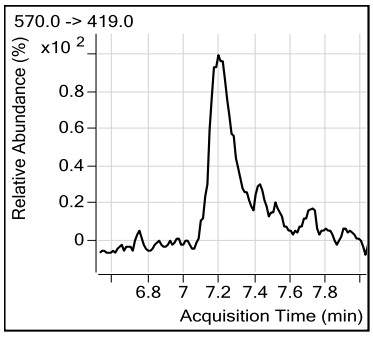


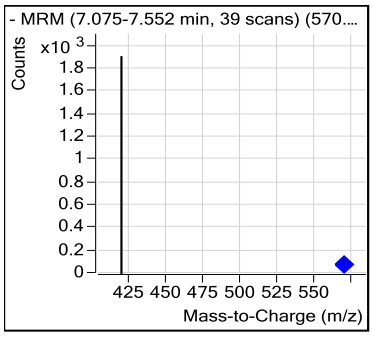




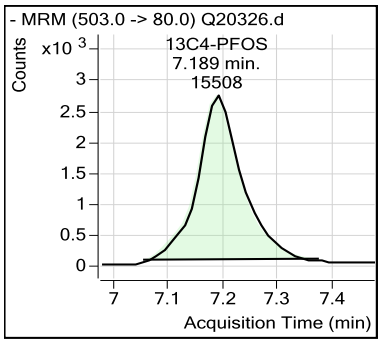
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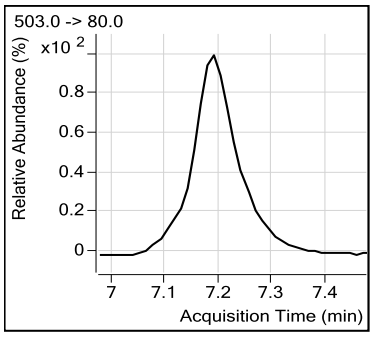


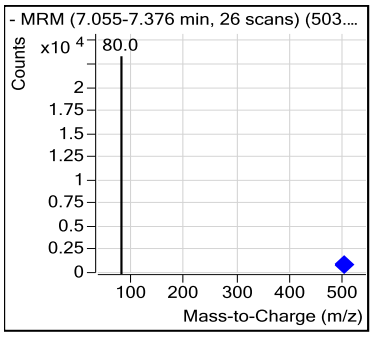




13C4-PFOS

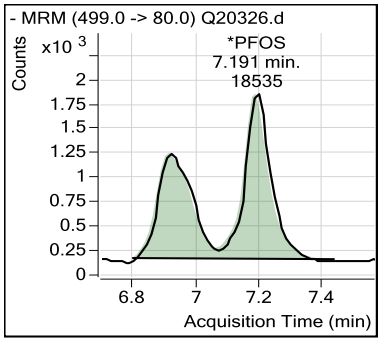


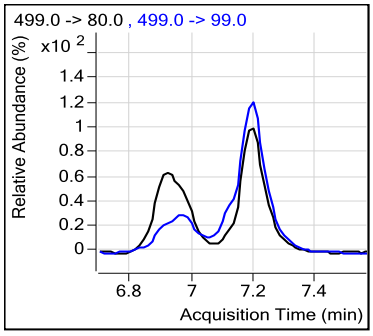


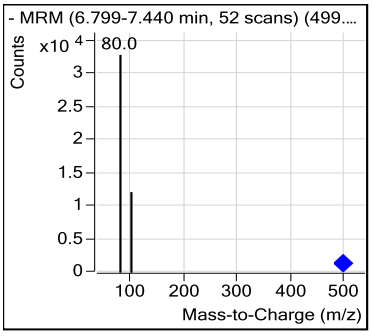


Perfluorinated Compounds by LC/MS/MS.

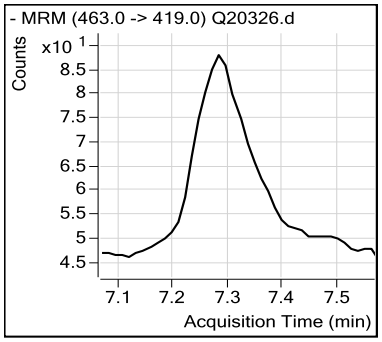
PFOS

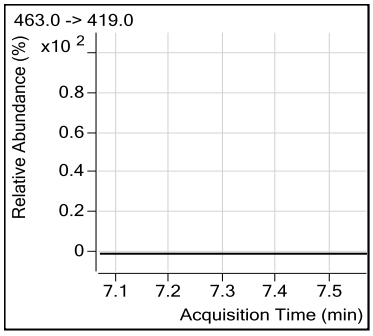


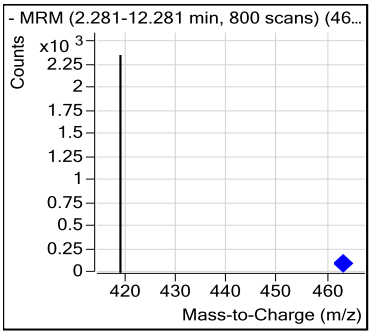




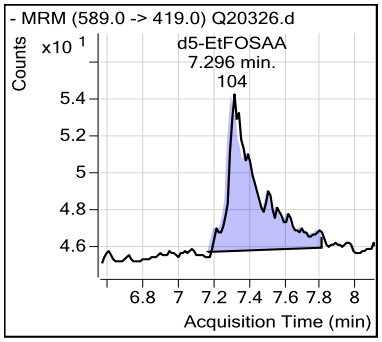
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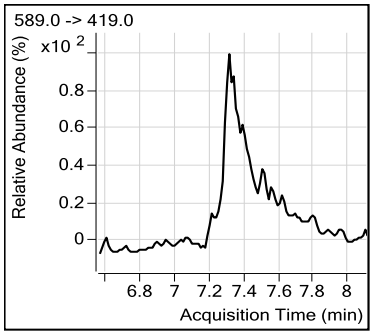


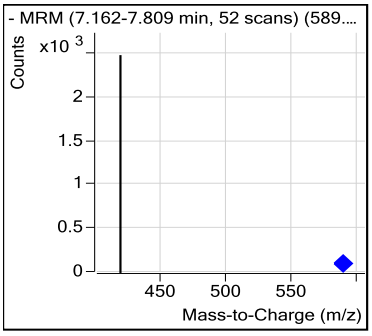




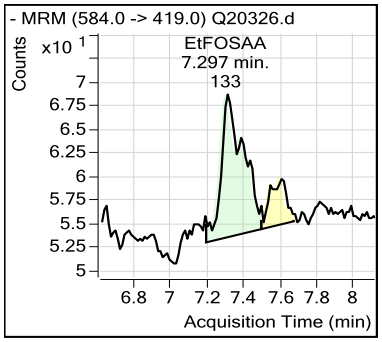
d5-EtFOSAA

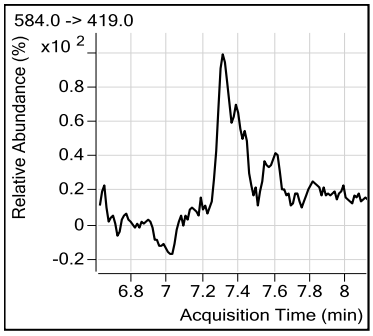


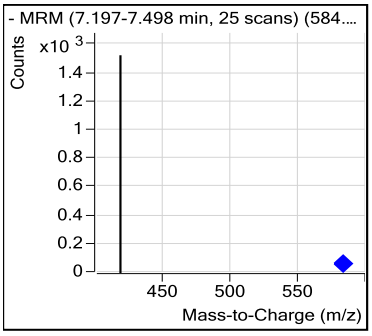




EtFOSAA

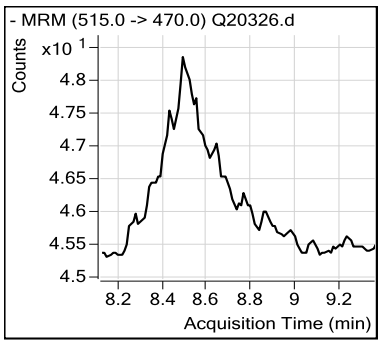


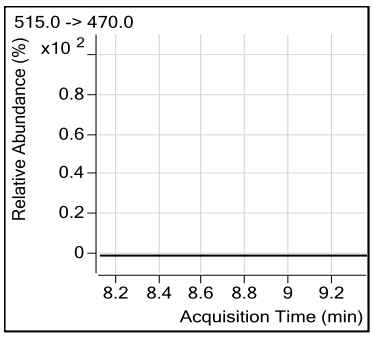


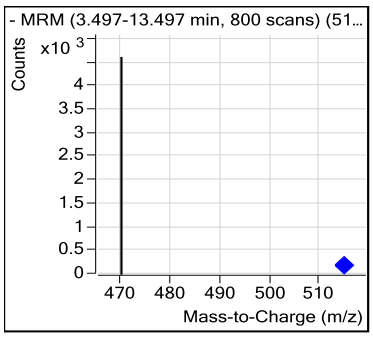


Perfluorinated Compounds by LC/MS/MS.

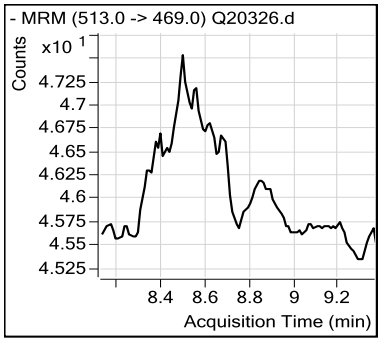
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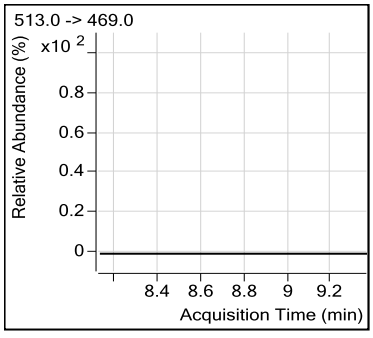


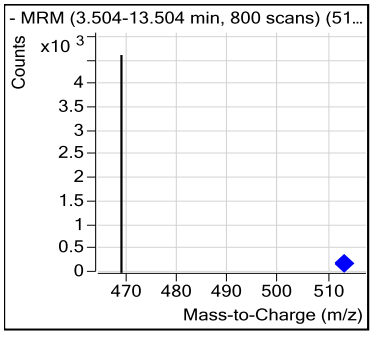




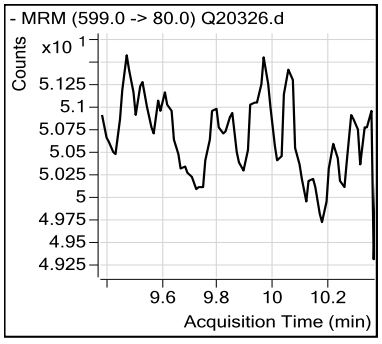
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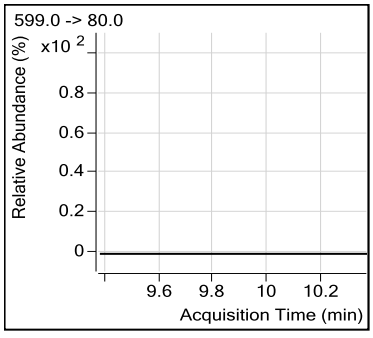


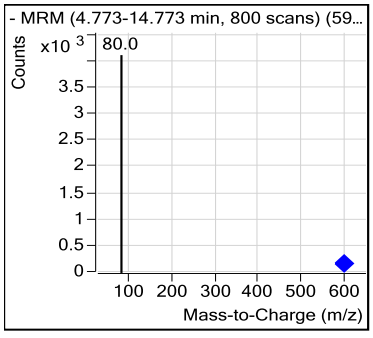




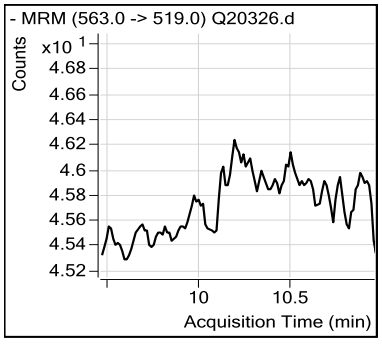
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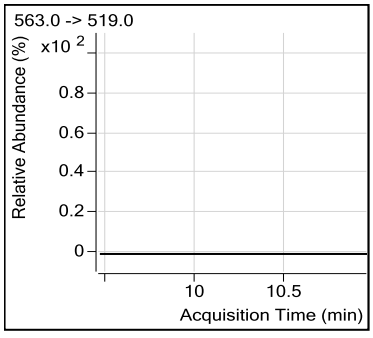


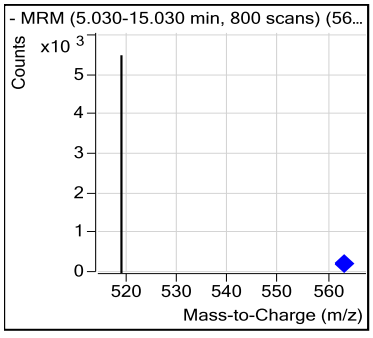




PFUnDA

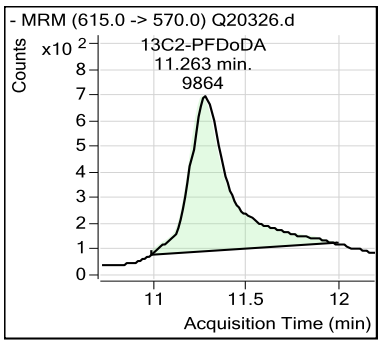


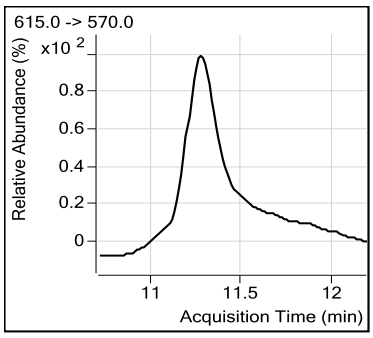


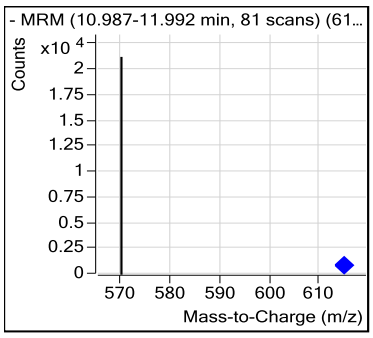


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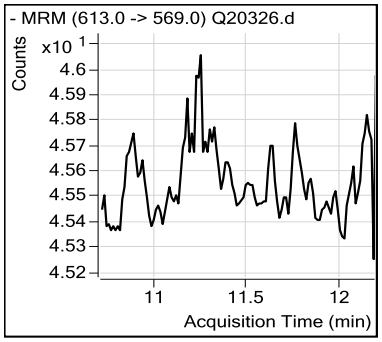
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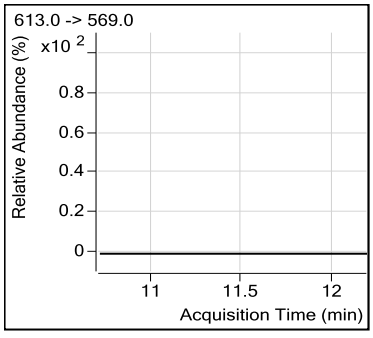


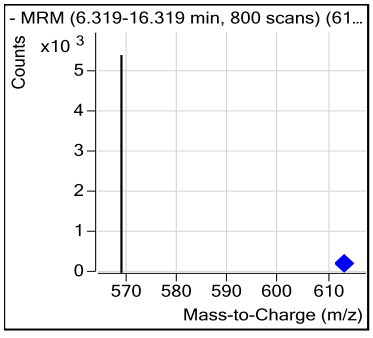




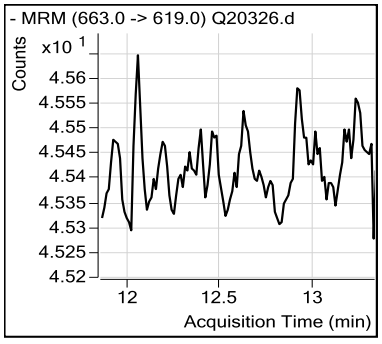
PFDoDA

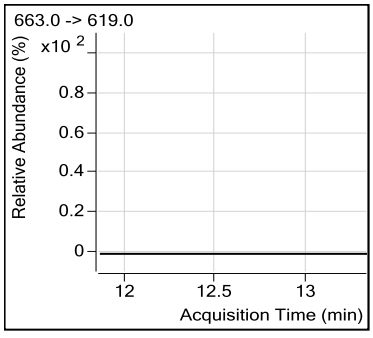


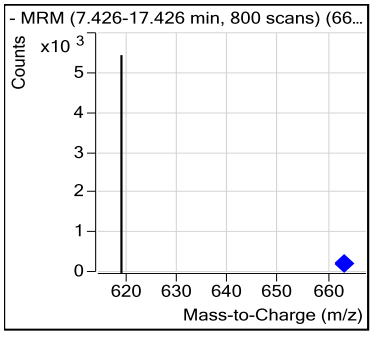




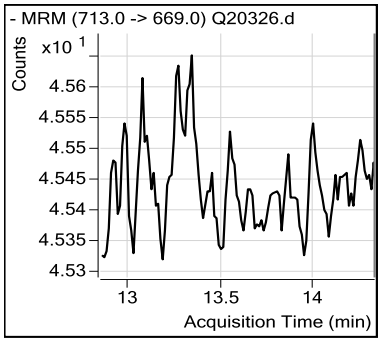
PFTrDA

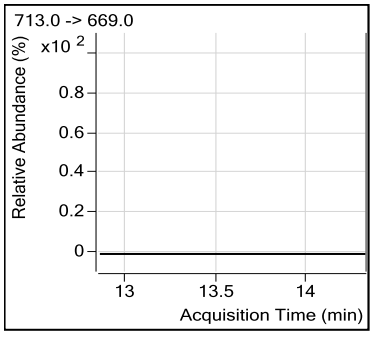


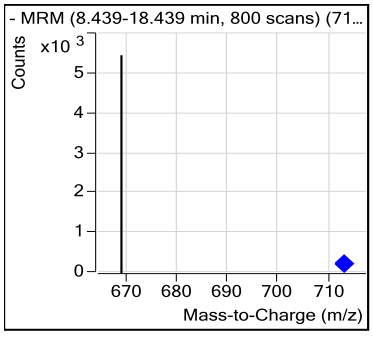




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-6	**Method:**	EPA 537 MOD
Lab FileID:	Q20326.D	**Analyst approved:**	04/14/16 13:33 Nancy Saunders
Injection Time:	04/13/16 19:18	**Supervisor approved:**	04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.80	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.19	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

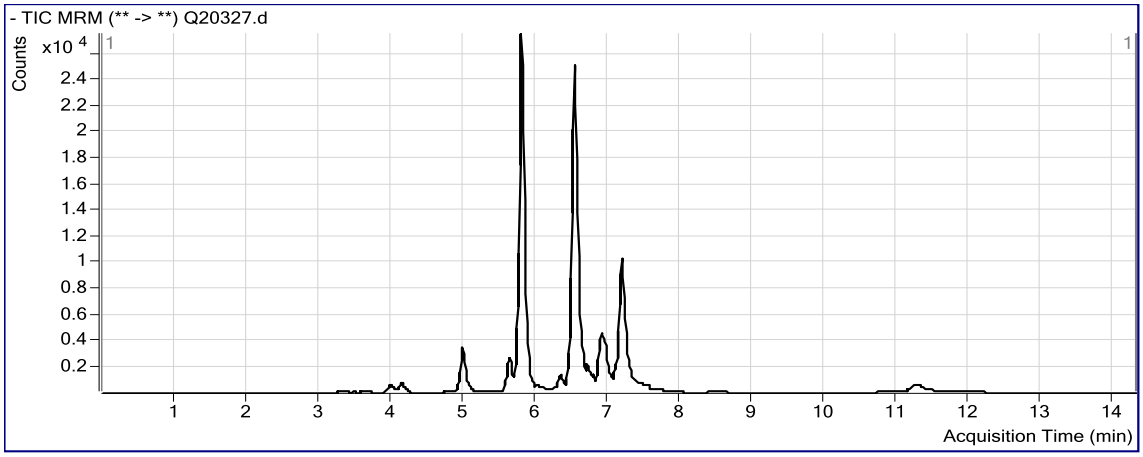
Data File	:	Q20327.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 19:39
Sample Name	:	FA32826-7
Vial	:	Vial 21
Sample Info	:	OP59984,SQ608,130,,,1.0,10,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	25787	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	10362	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	15661	20.000	µg/L		-0.012
13C2-PFDoDA	11.250	615.0 -> 570.0	9641	20.000	µg/L		-0.062
System Monitoring Compounds							
13C2-PFHxA	4.979	315.0 -> 270.0	555	1.67	µg/L		-0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 8.36%				
d5-EtFOSAA	7.283	589.0 -> 419.0	91	0.00	µg/L		-0.012
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.472	515.0 -> 470.0	1355	1.71	µg/L		-0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 8.54%				
Target Compounds							**Qvalue**
PFBA	3.340	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	3.986	263.0 -> 219.0	2322	19.419	µg/L		100
PFBS	4.128	299.0 -> 80.0	2001	7.573	µg/L		95
PFHxA	4.983	313.0 -> 269.0	16677	50.361	µg/L		98
PFHxS	5.793	399.0 -> 80.0	63379	137.432	µg/L	m	75
PFHpA	5.798	363.0 -> 319.0	43288	70.352	µg/L	#	69
PFHpS	6.496	449.0 -> 80.0	2253	4.492	µg/L	m	100
PFOA	6.539	413.0 -> 369.0	94136	78.448	µg/L	m	79
PFOS	7.178	499.0 -> 80.0	50713	62.707	µg/L	m	97
MeFOSAA	7.263	570.0 -> 419.0	73	0.000	µg/L		100
PFNA	7.269	463.0 -> 419.0	1661	2.843	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	214	0.000	µg/L		100

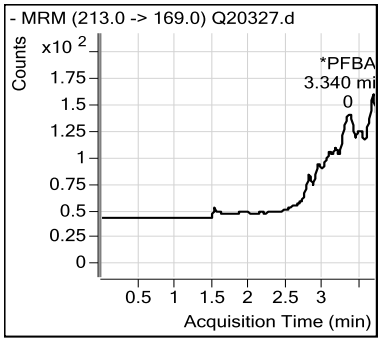
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

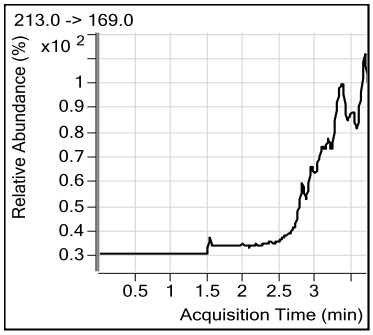
Perfluorinated Compounds by LC/MS/MS.

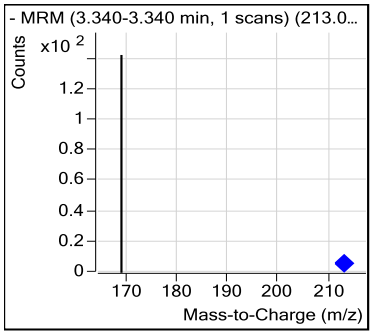
Data File	:	Q20327.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 19:39
Sample Name	:	FA32826-7
Vial	:	Vial 21
Sample Info	:	OP59984,SQ608,130,,,1.0,10,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



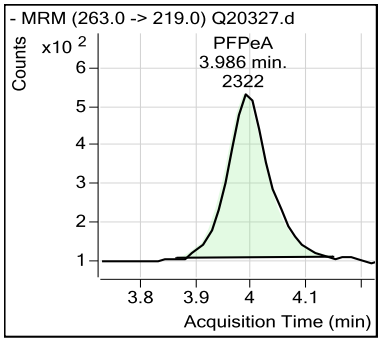
PFBA

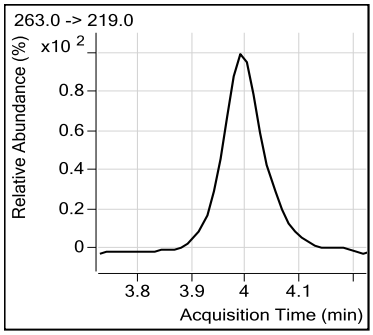


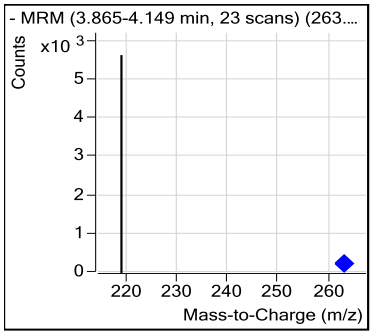




PFPeA

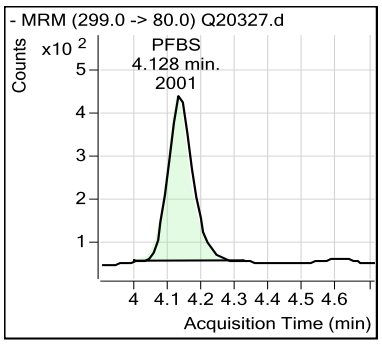


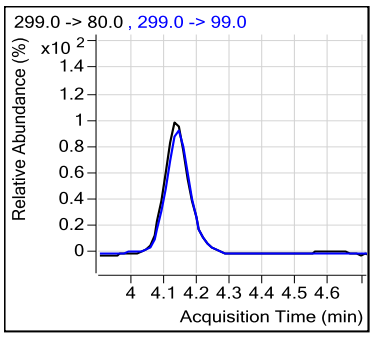


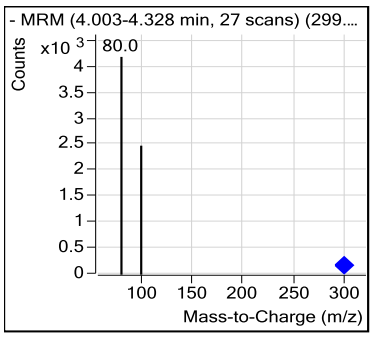


Perfluorinated Compounds by LC/MS/MS.

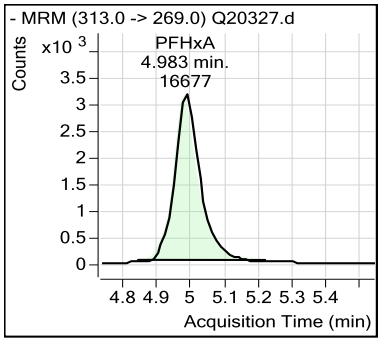
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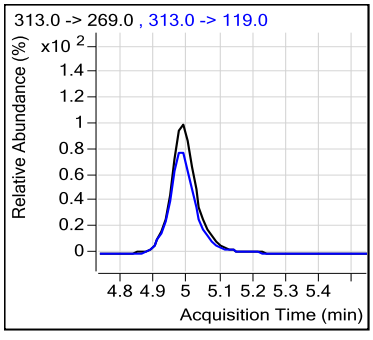


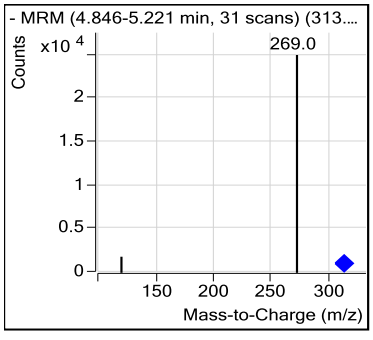




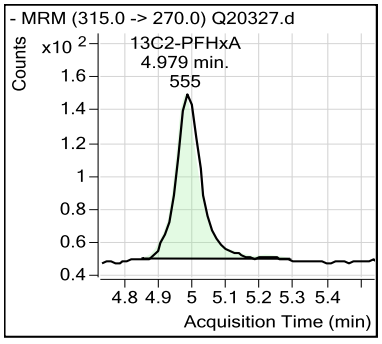
PFHxA

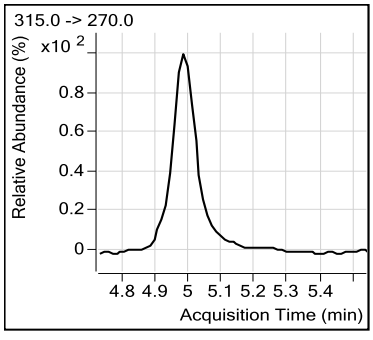


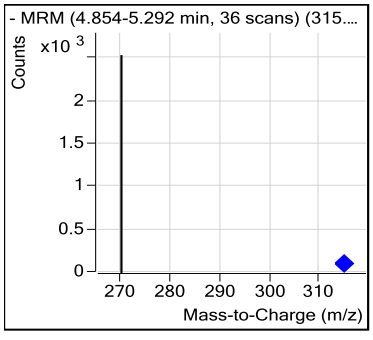




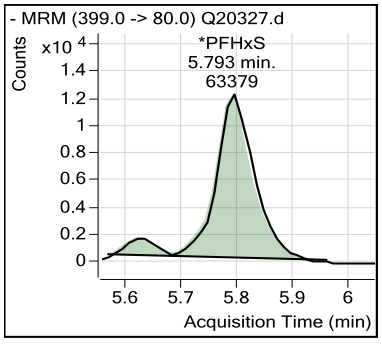
13C2-PFHxA

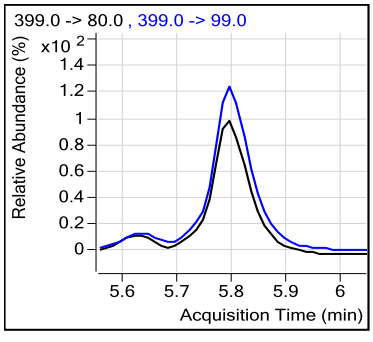


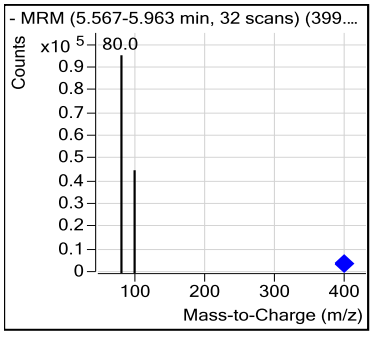




PFHxS





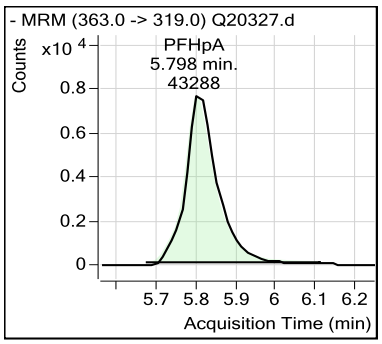


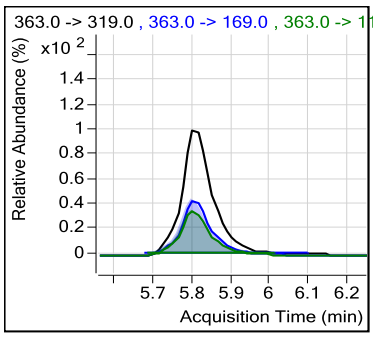
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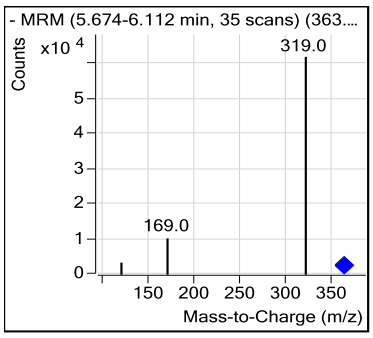
7

Perfluorinated Compounds by LC/MS/MS.

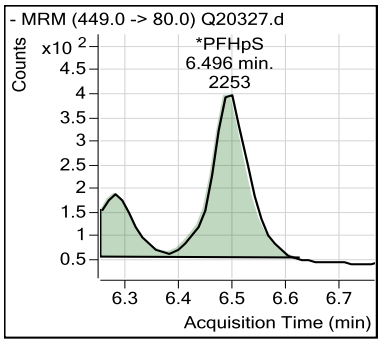
PFHpA

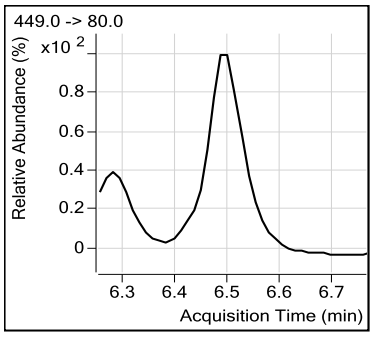


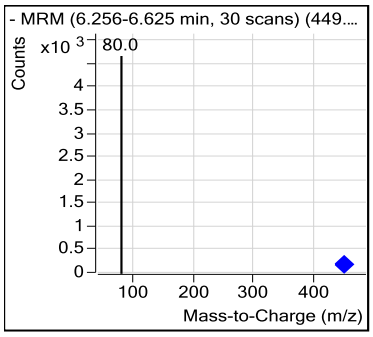




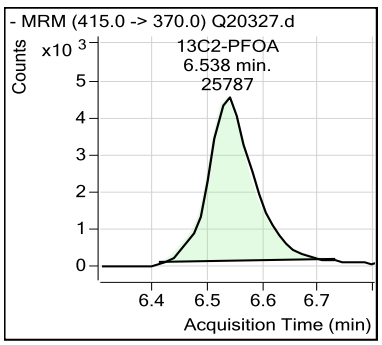
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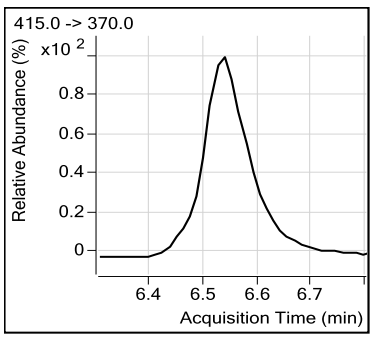


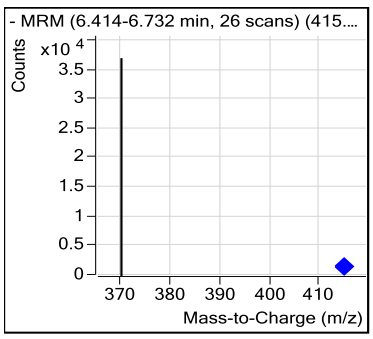




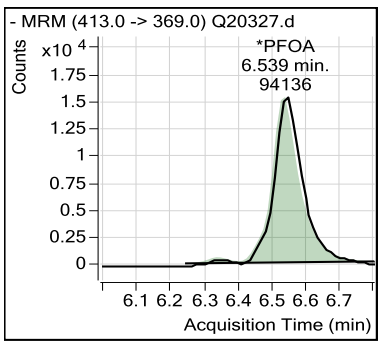
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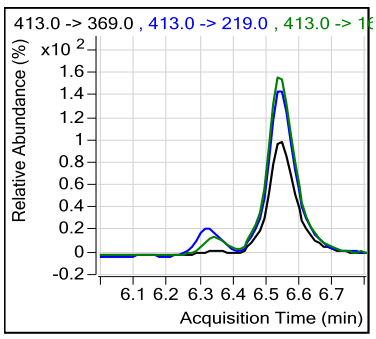


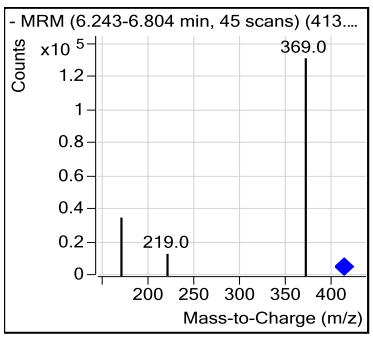




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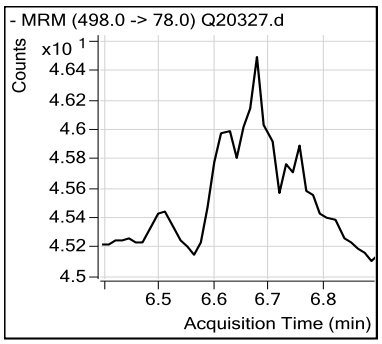


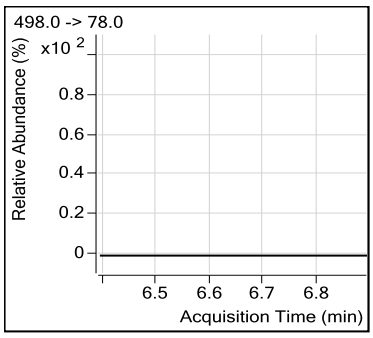
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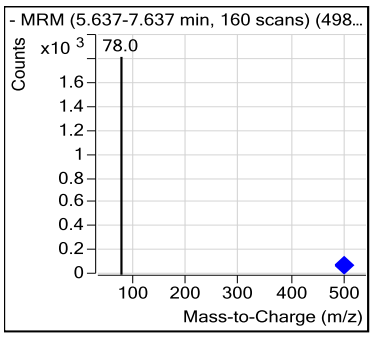
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Perfluorinated Compounds by LC/MS/MS.

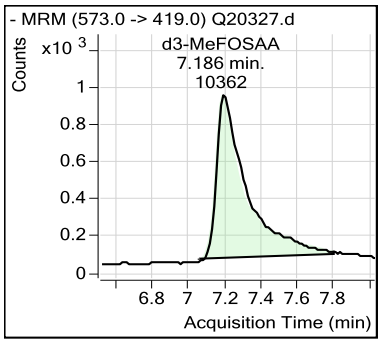
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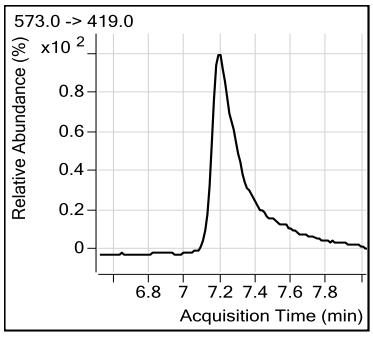


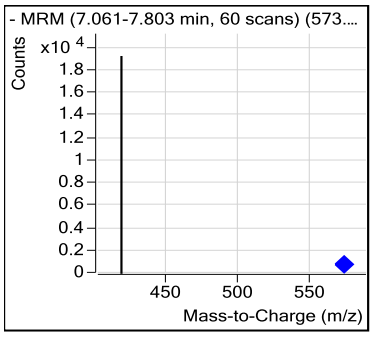




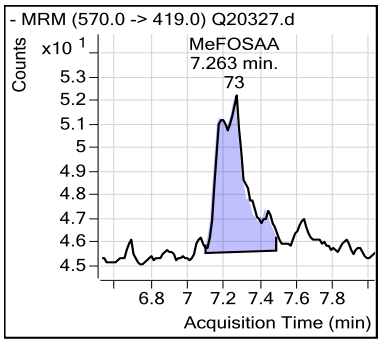
d3-MeFOSAA

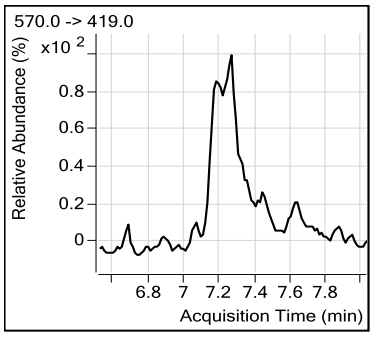


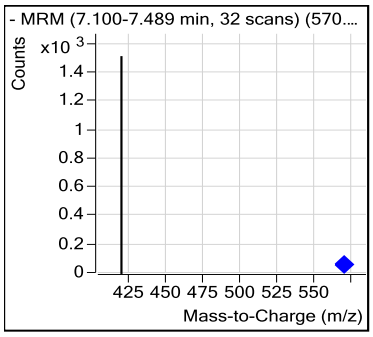




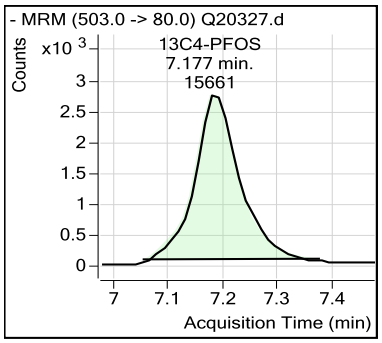
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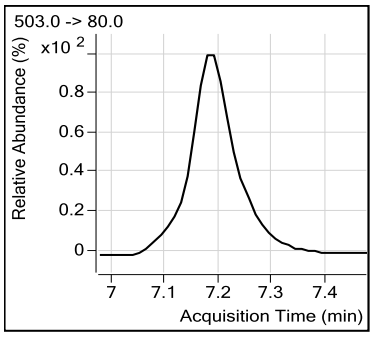


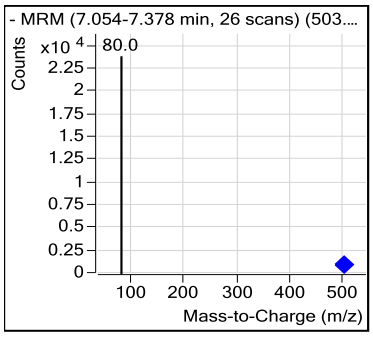




13C4-PFOS





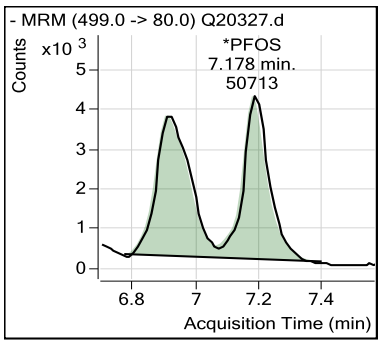


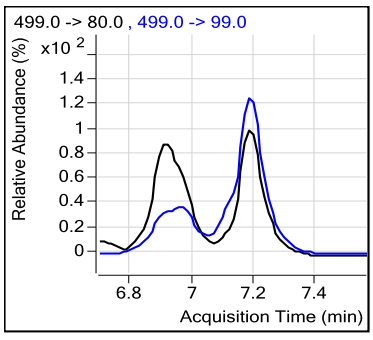
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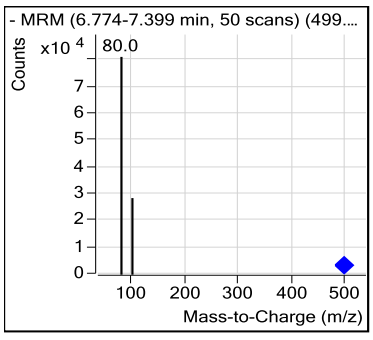
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Perfluorinated Compounds by LC/MS/MS.

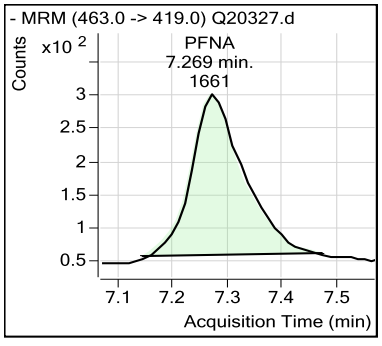
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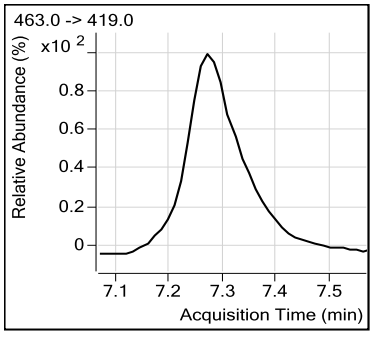


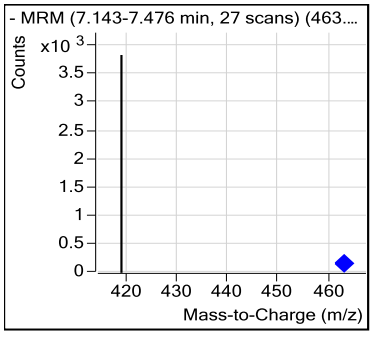




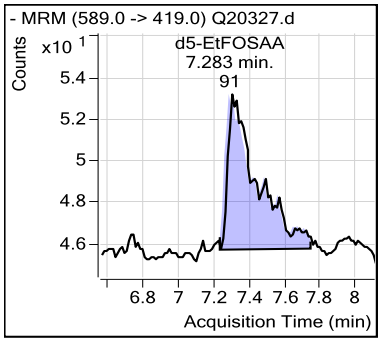
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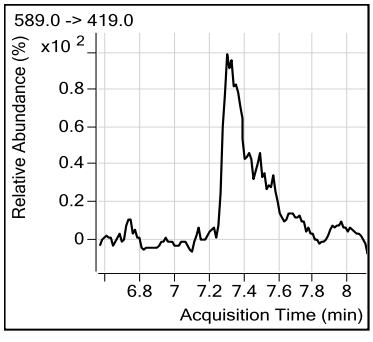


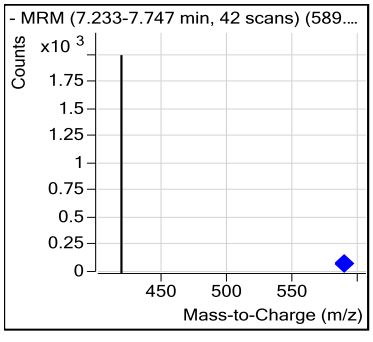




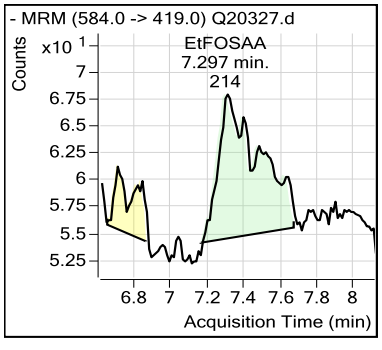
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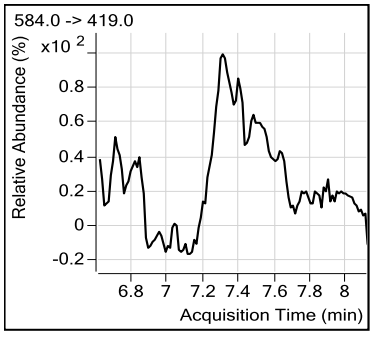


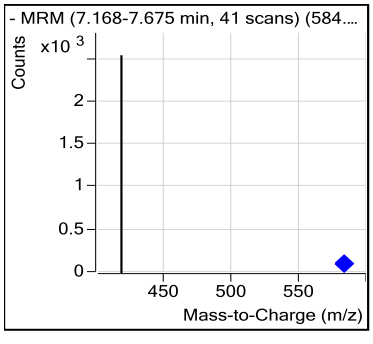




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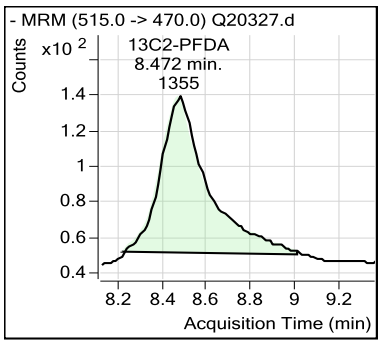


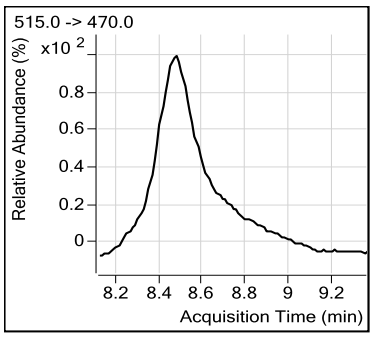


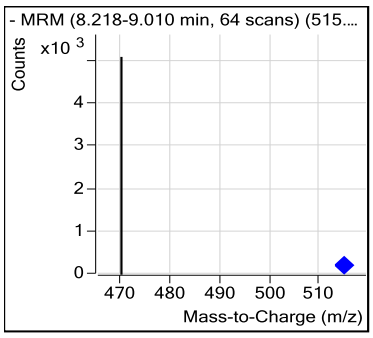


Perfluorinated Compounds by LC/MS/MS.

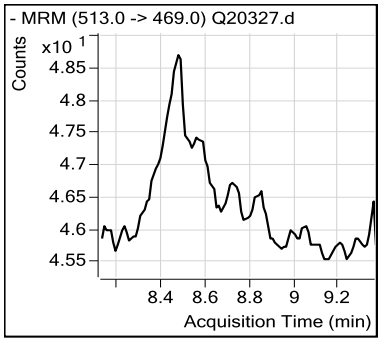
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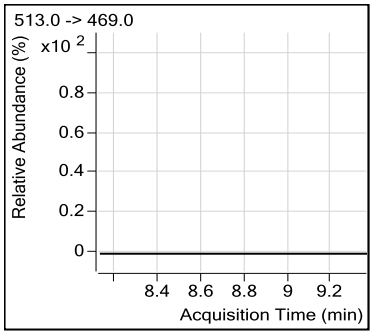


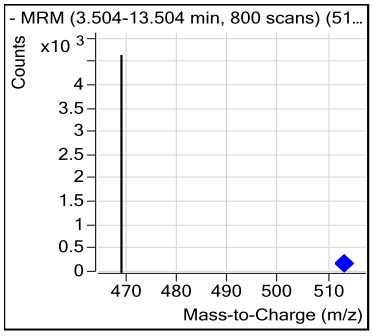




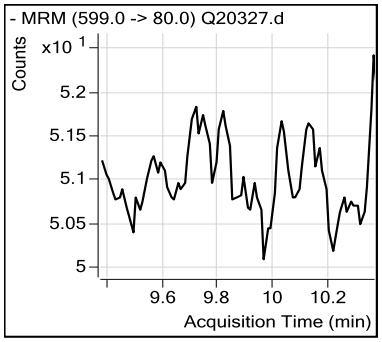
PFDA

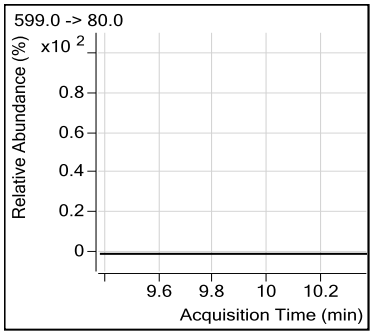


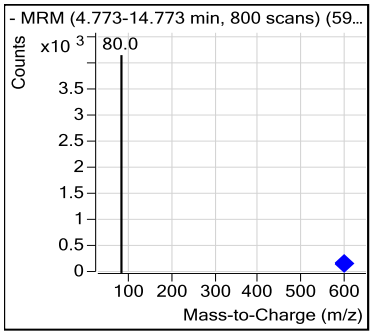




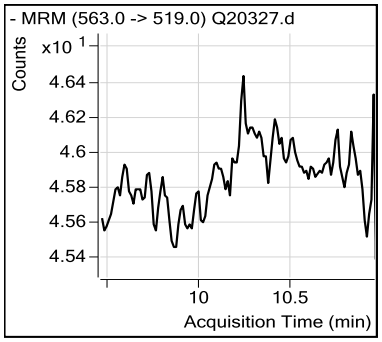
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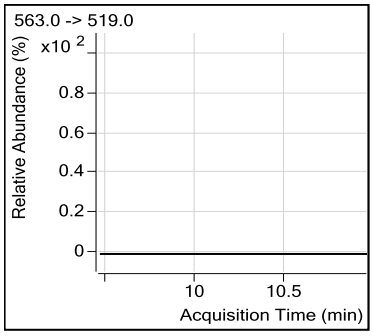


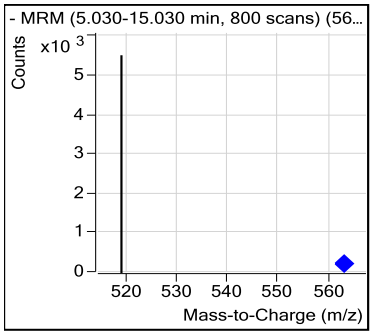




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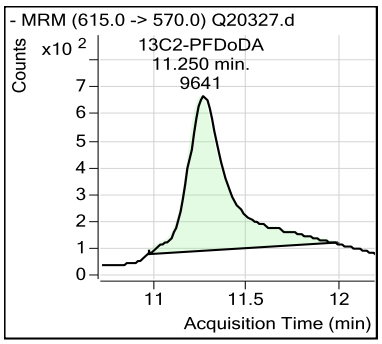


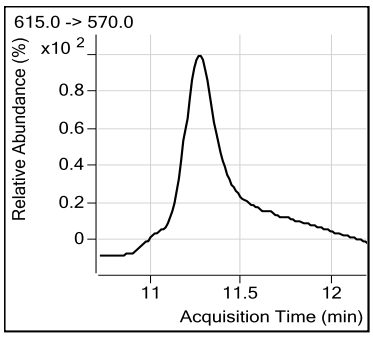


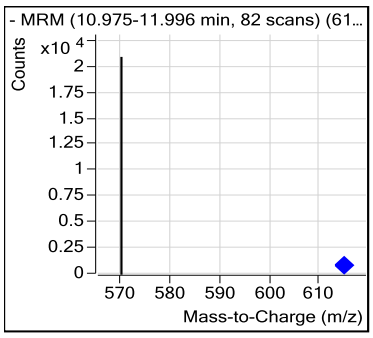
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Perfluorinated Compounds by LC/MS/MS.

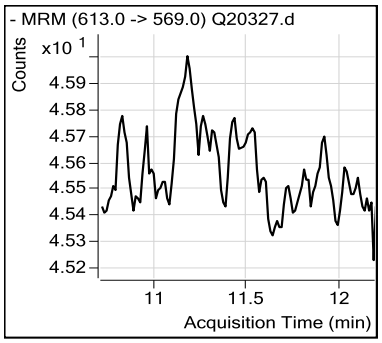
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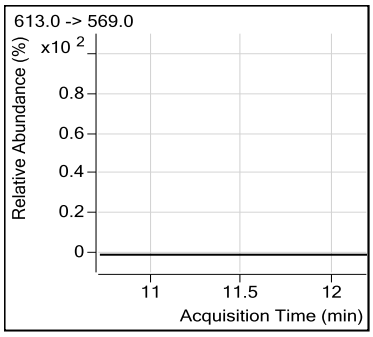


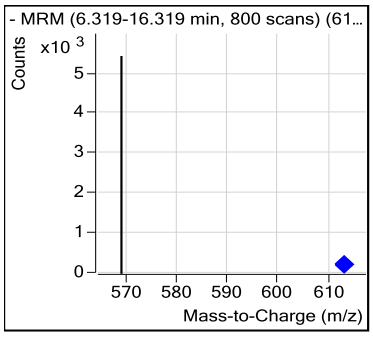




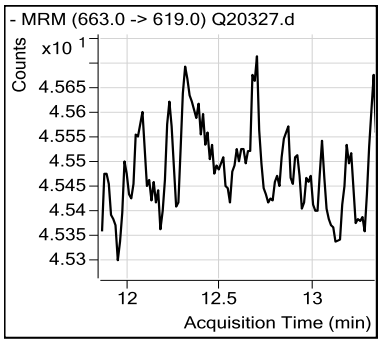
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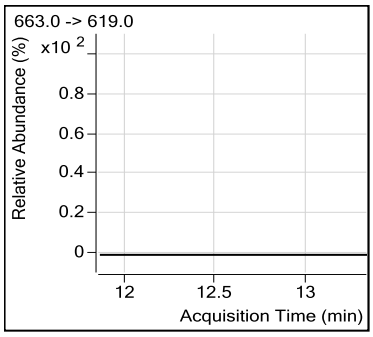


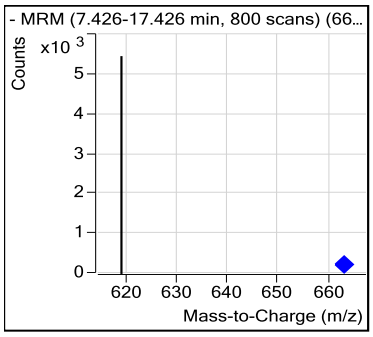




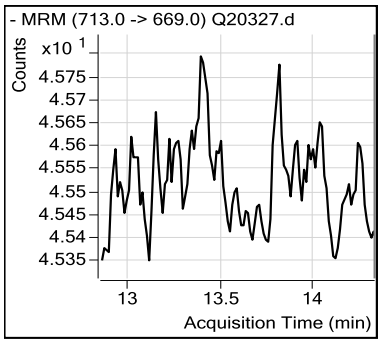
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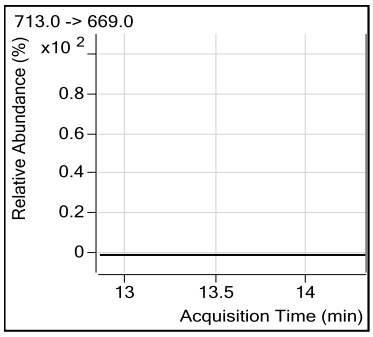


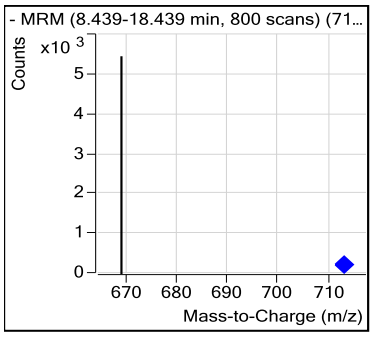




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-7	**Method:**	EPA 537 MOD
Lab FileID:	Q20327.D	**Analyst approved:**	04/14/16 13:33 Nancy Saunders
Injection Time:	04/13/16 19:39	**Supervisor approved:**	04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluoroheptanesulfonic acid	375-92-8		6.50	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.18	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

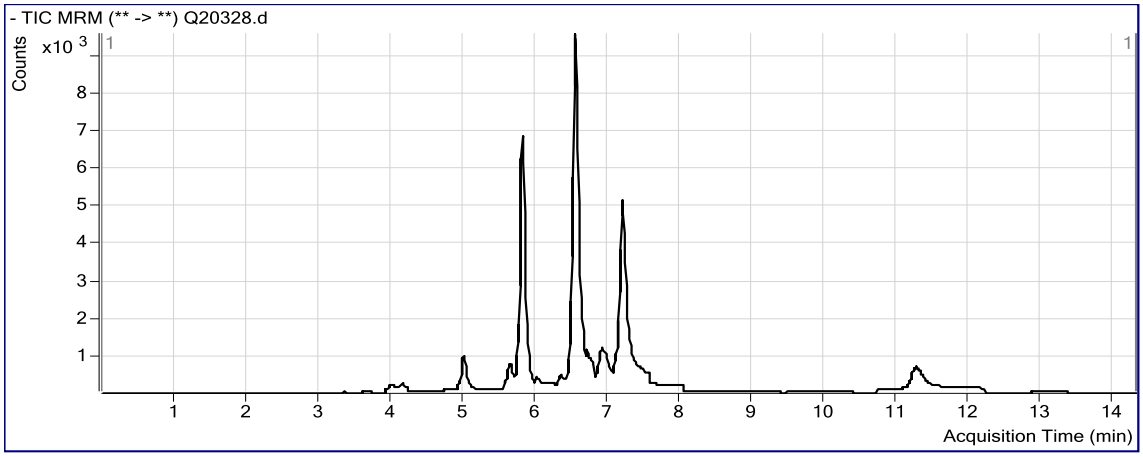
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 20:01
Sample Name	:	FA32826-7
Vial	:	Vial 22
Sample Info	:	OP59984,SQ608,130,,,1.0,50,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	26754	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	9592	40.000	µg/L		0.000
13C4-PFOS	7.189	503.0 -> 80.0	14568	20.000	µg/L		0.000
13C2-PFDoDA	11.250	615.0 -> 570.0	9696	20.000	µg/L		-0.062
System Monitoring Compounds							
d5-EtFOSAA	7.308	589.0 -> 419.0	55	0.00	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFPeA	3.999	263.0 -> 219.0	590	4.756	µg/L		100
PFBS	4.141	299.0 -> 80.0	477	1.939	µg/L		94
PFHxA	4.996	313.0 -> 269.0	4526	13.173	µg/L		98
PFHxS	5.805	399.0 -> 80.0	15326	35.727	µg/L	m	87
PFHpA	5.810	363.0 -> 319.0	10771	16.873	µg/L	#	71
PFHpS	6.496	449.0 -> 80.0	314	0.674	µg/L		100
PFOA	6.539	413.0 -> 369.0	20707	16.632	µg/L	m	79
MeFOSAA	7.175	570.0 -> 419.0	62	0.000	µg/L		100
PFOS	7.191	499.0 -> 80.0	10028	13.330	µg/L	m	99
PFNA	7.282	463.0 -> 419.0	388	0.640	µg/L		100
EtFOSAA	7.322	584.0 -> 419.0	100	0.000	µg/L		100

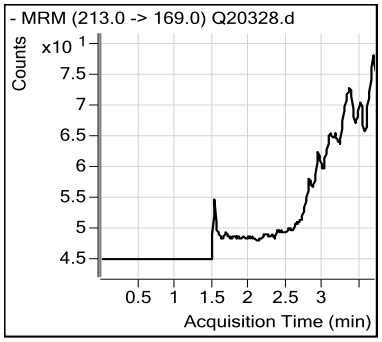
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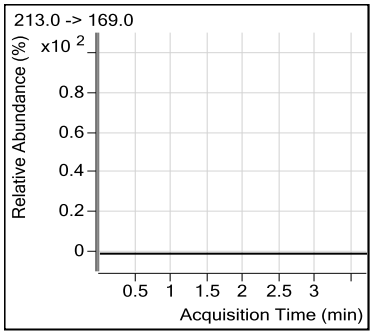
Perfluorinated Compounds by LC/MS/MS.

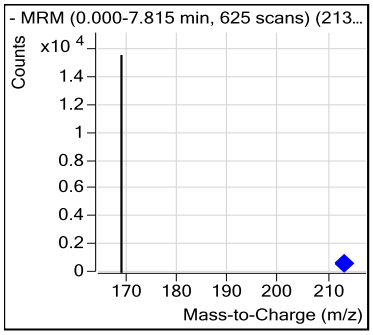
Data File	:	Q20328.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 20:01
Sample Name	:	FA32826-7
Vial	:	Vial 22
Sample Info	:	OP59984,SQ608,130,,,1.0,50,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



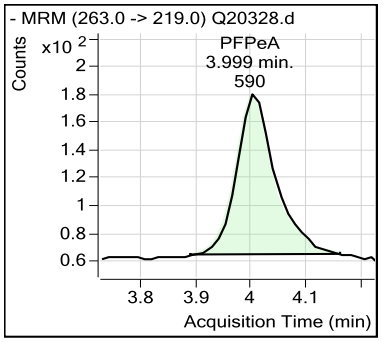
PFBA

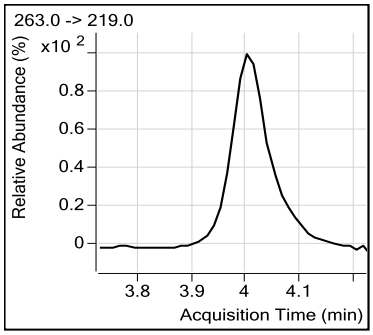


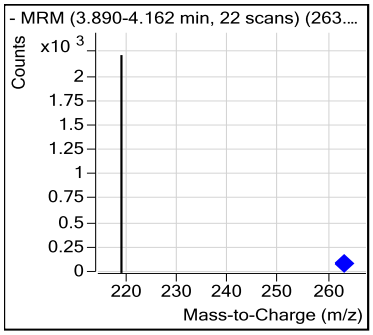




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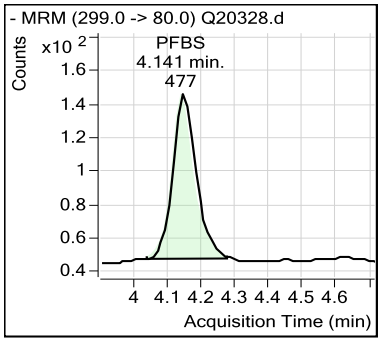


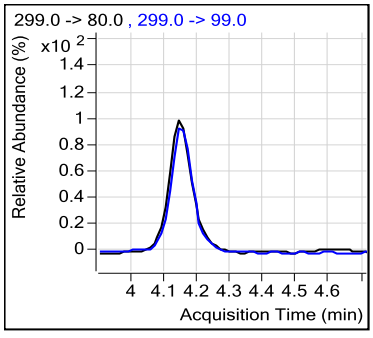


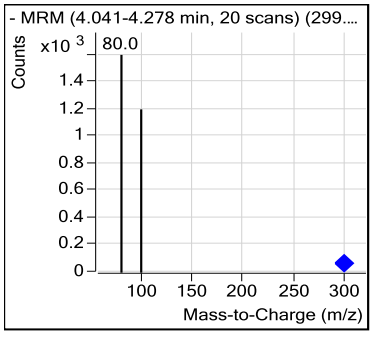


Perfluorinated Compounds by LC/MS/MS.

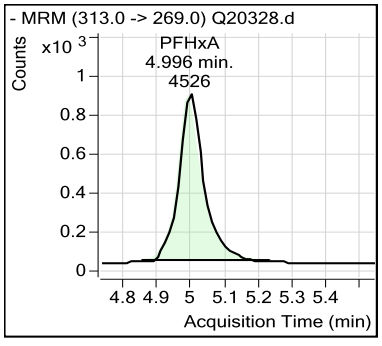
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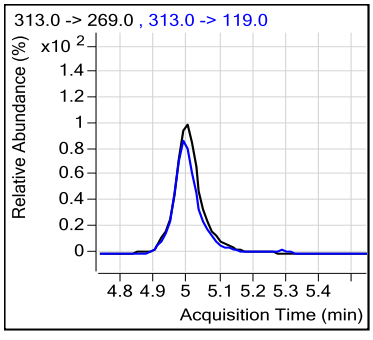


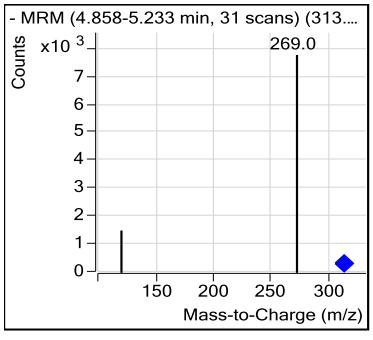




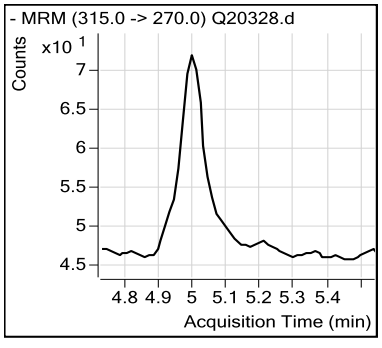
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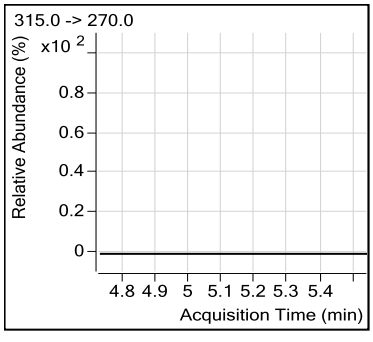


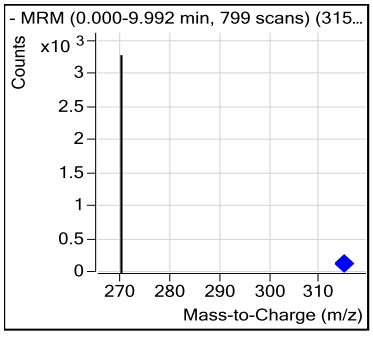




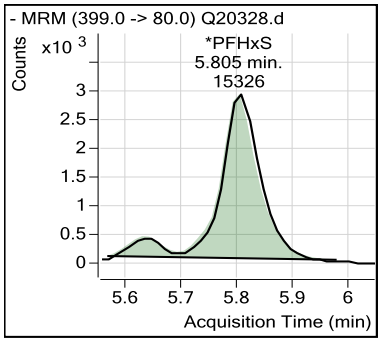
13C2-PFHxA

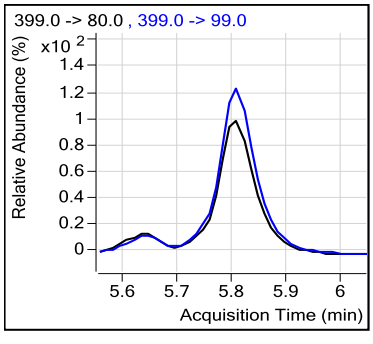


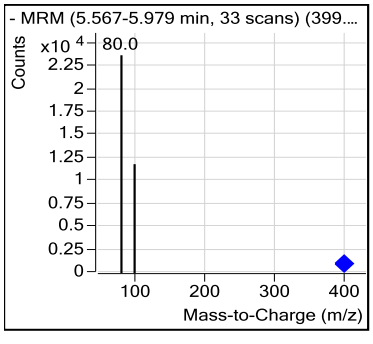




PFHxS

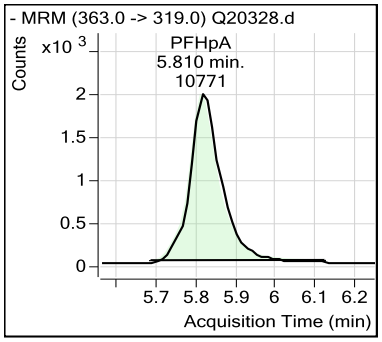


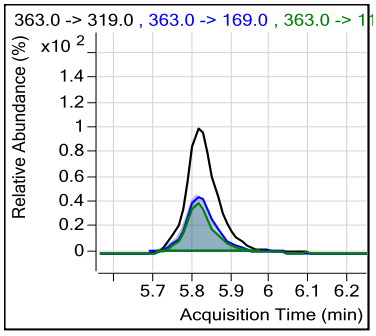


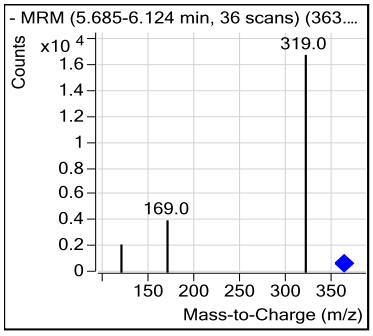


Perfluorinated Compounds by LC/MS/MS.

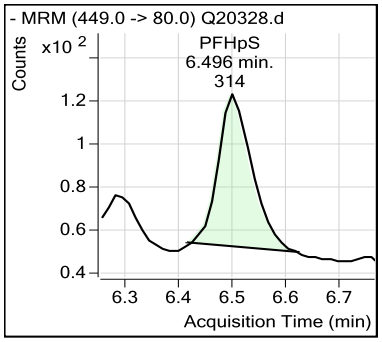
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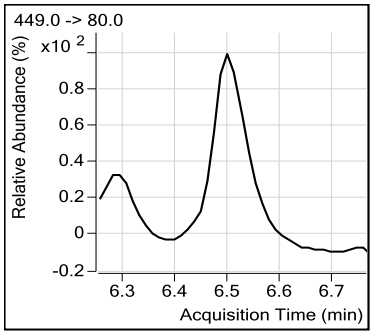


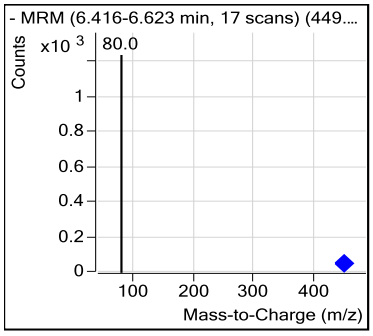




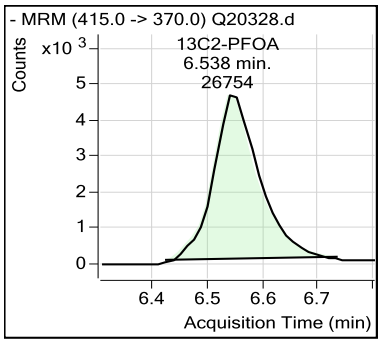
PFHpS

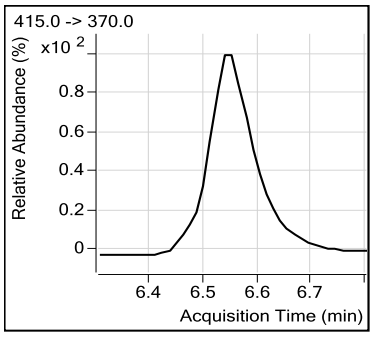


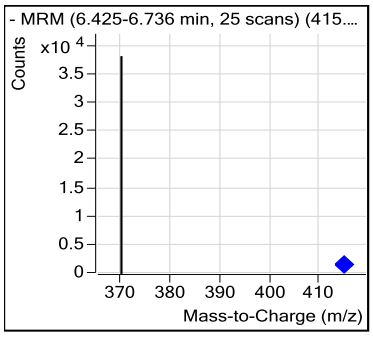




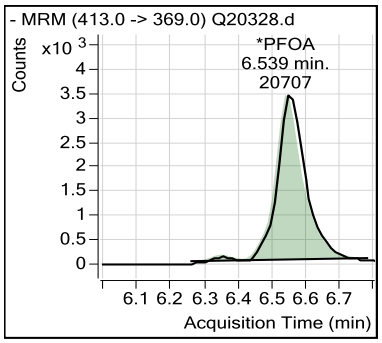
13C2-PFOA

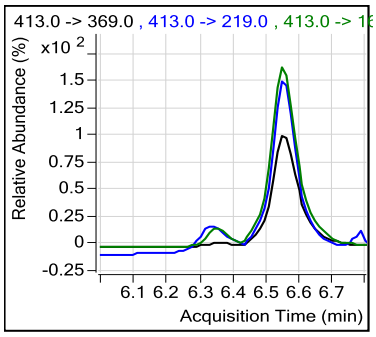


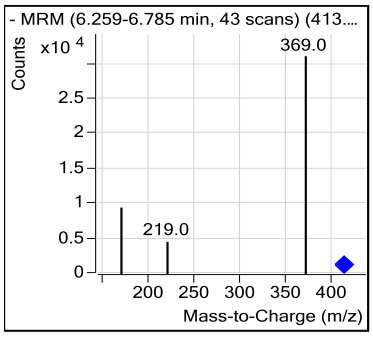




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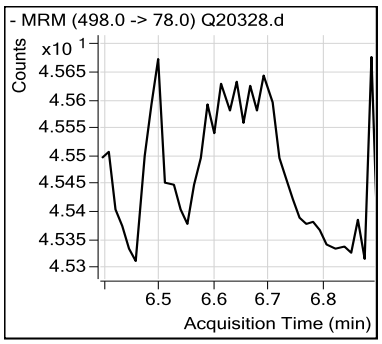


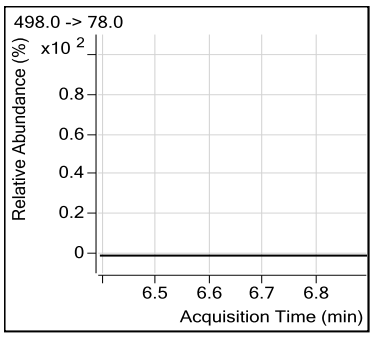


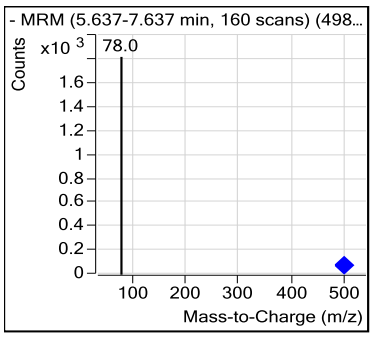


Perfluorinated Compounds by LC/MS/MS.

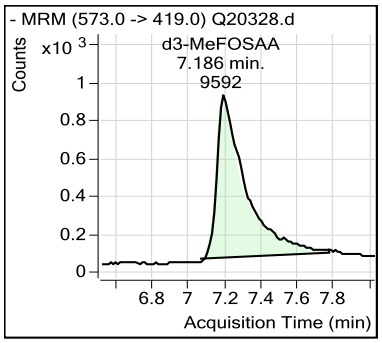
PFOSA

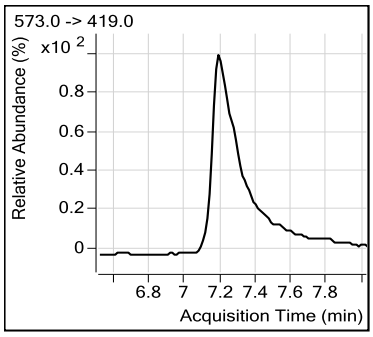


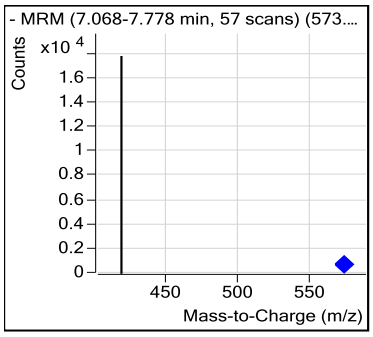




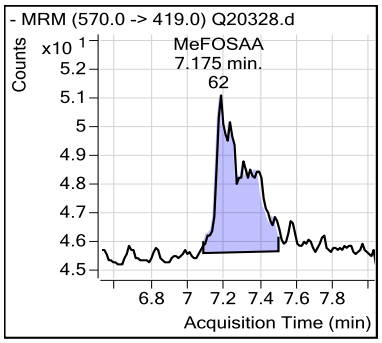
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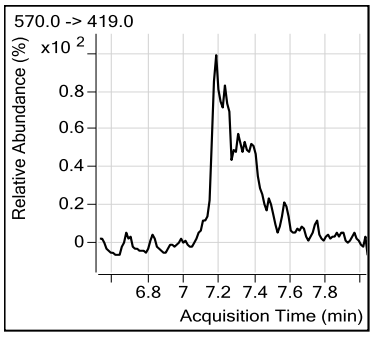


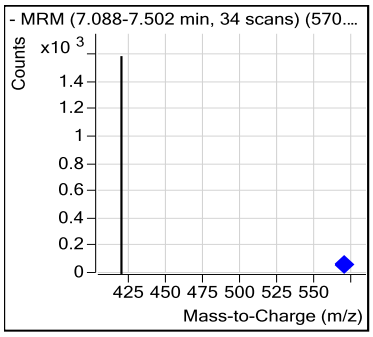




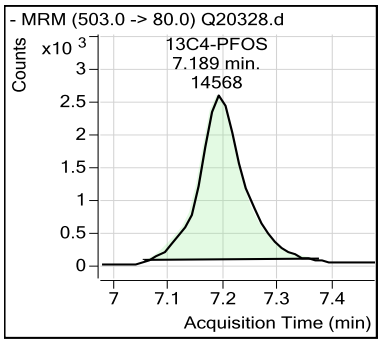
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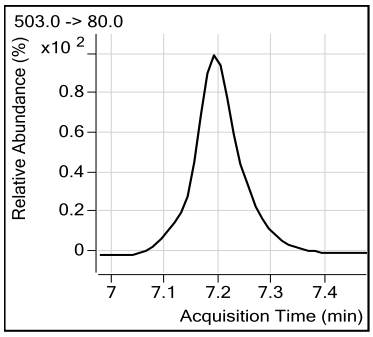


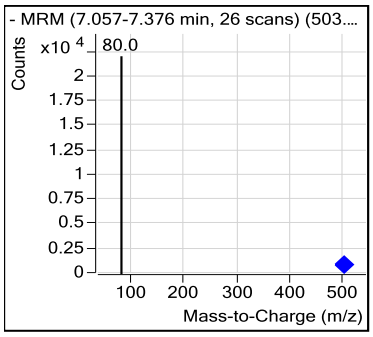




13C4-PFOS

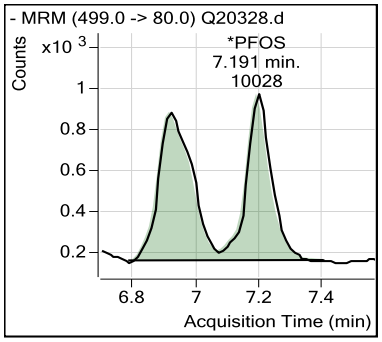


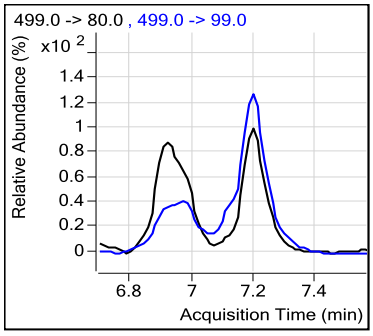


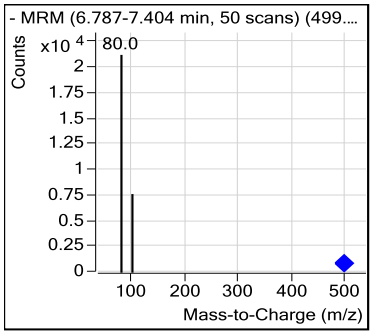


Perfluorinated Compounds by LC/MS/MS.

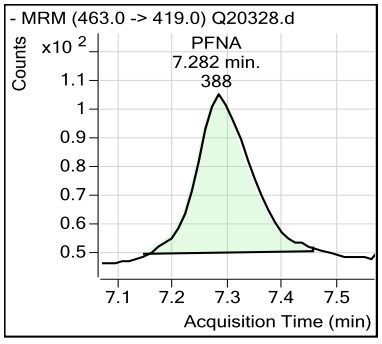
PFOS

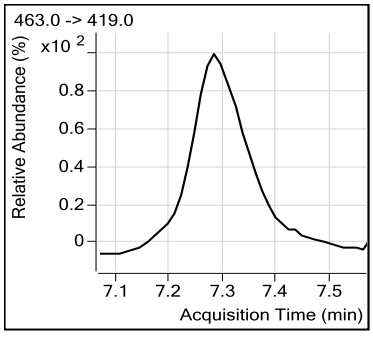


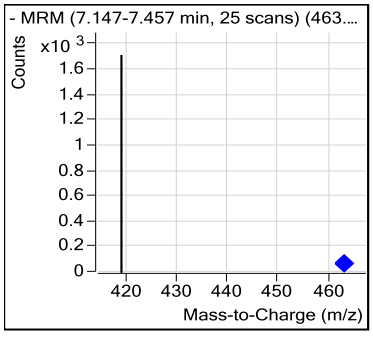




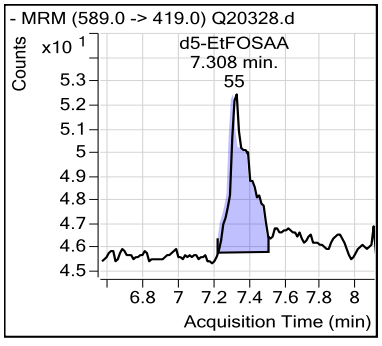
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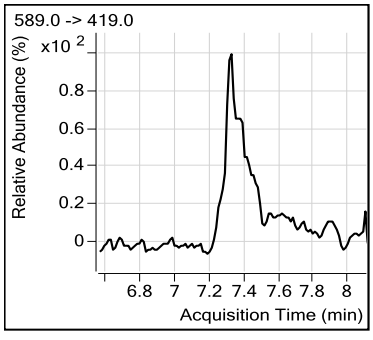


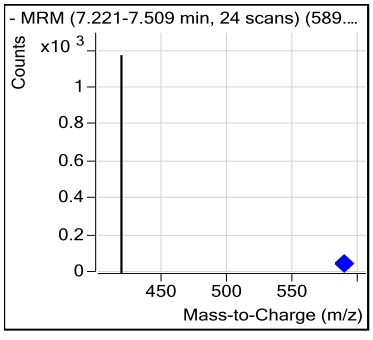




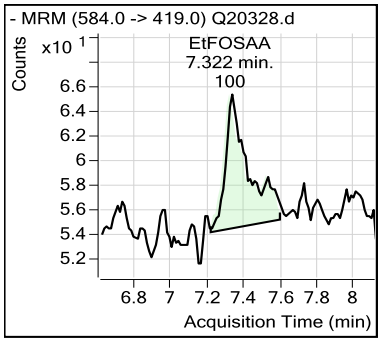
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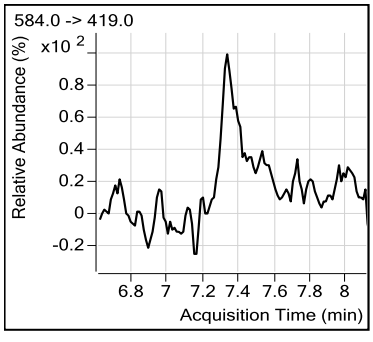


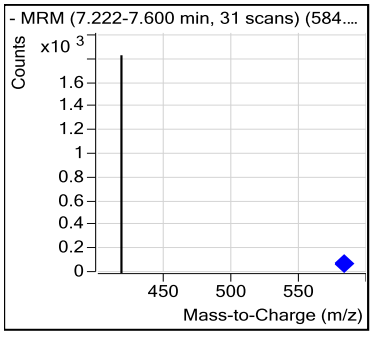




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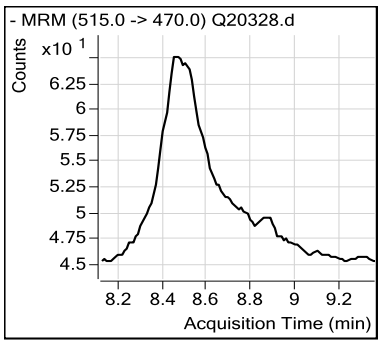


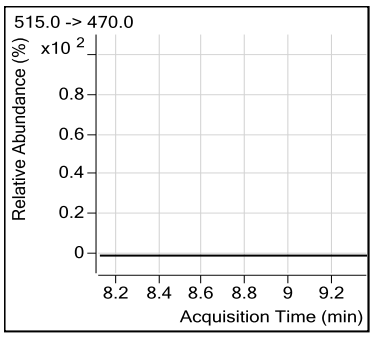


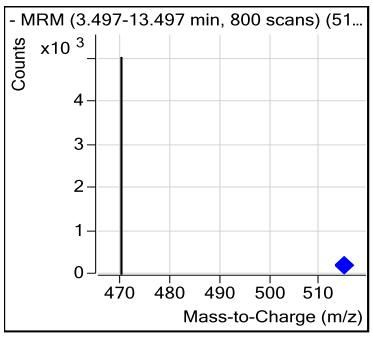


Perfluorinated Compounds by LC/MS/MS.

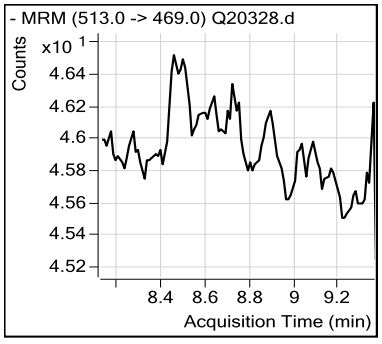
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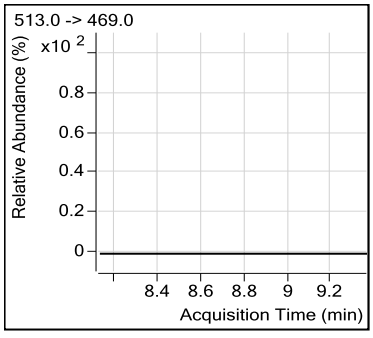


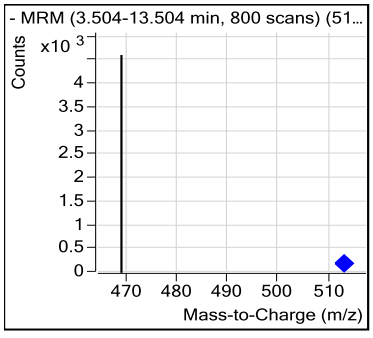




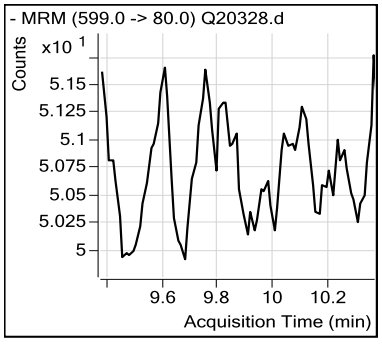
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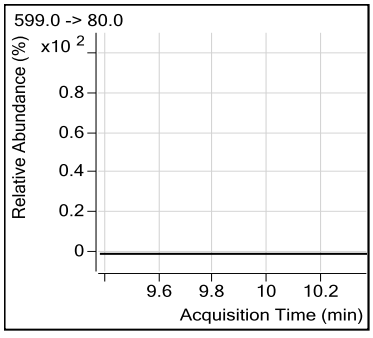


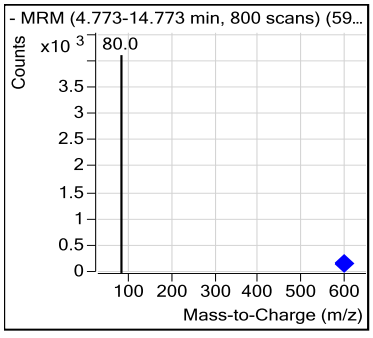




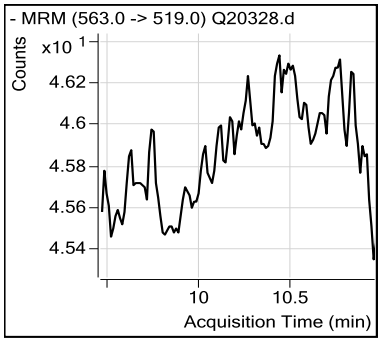
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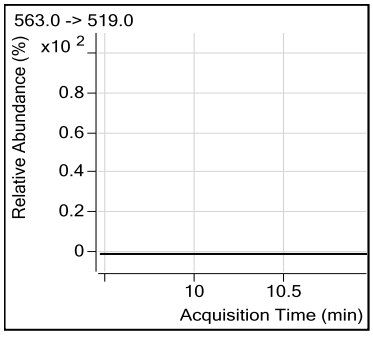


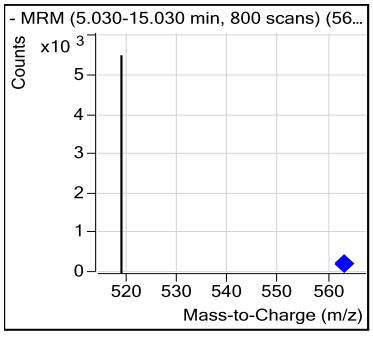




PFUnDA

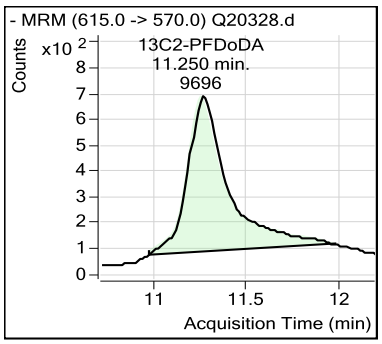


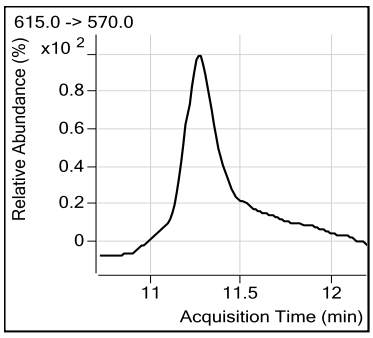


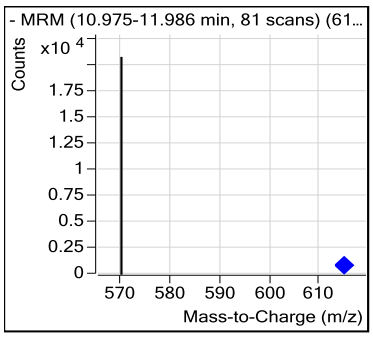


Perfluorinated Compounds by LC/MS/MS.

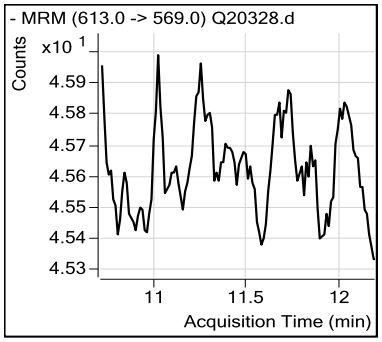
13C2-PFDoDA

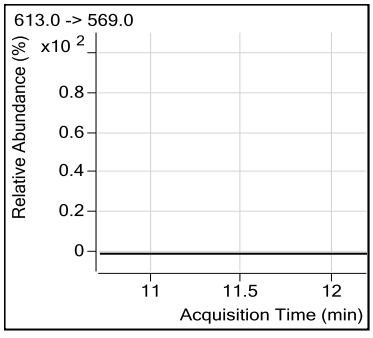


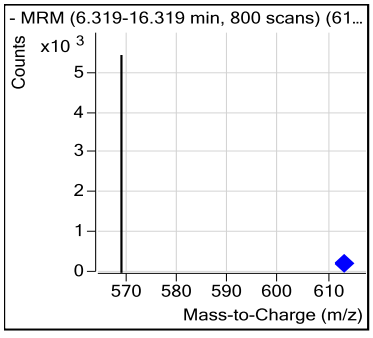




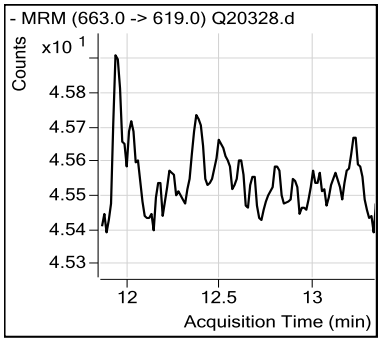
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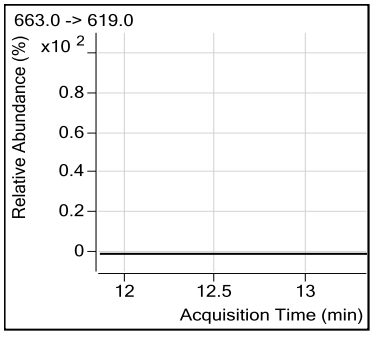


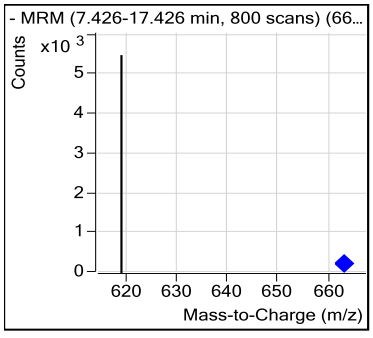




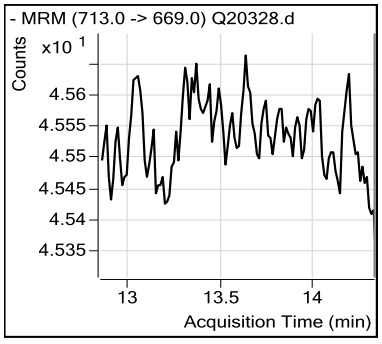
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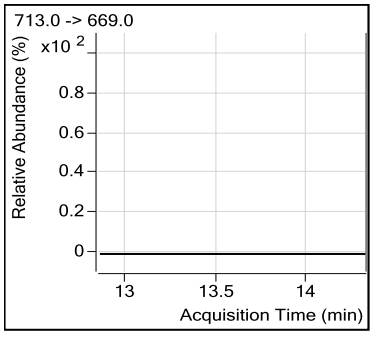


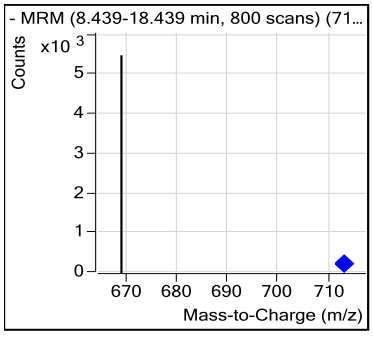




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-7	**Method:**	EPA 537 MOD
Lab FileID:	Q20328.D	**Analyst approved:**	04/14/16 13:33 Nancy Saunders
Injection Time:	04/13/16 20:01	**Supervisor approved:**	04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.80	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.19	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/19/16 17:16

Perfluorinated Compounds by LC/MS/MS.

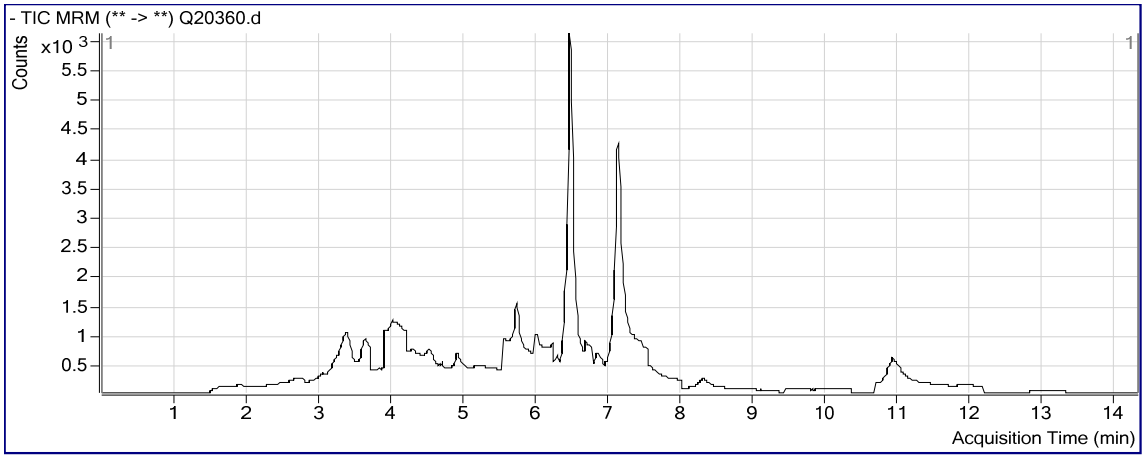
Data File	:	Q20360.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 12:17
Sample Name	:	FA32826-8
Vial	:	Vial 9
Sample Info	:	OP59984,SQ609,125,,,1,5,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.485	415.0 -> 370.0	20166	20.000	µg/L		-0.052
d3-MeFOSAA	7.174	573.0 -> 419.0	14028	40.000	µg/L		-0.012
13C4-PFOS	7.139	503.0 -> 80.0	13509	20.000	µg/L		-0.050
13C2-PFDoDA	10.962	615.0 -> 570.0	6741	20.000	µg/L		-0.350
System Monitoring Compounds							
13C2-PFHxA	4.916	315.0 -> 270.0	698	2.69	µg/L		-0.075
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 13.45%				
d5-EtFOSAA	7.333	589.0 -> 419.0	208	0.00	µg/L		0.038
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.322	515.0 -> 470.0	2098	3.38	µg/L		-0.175
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 16.92%				
Target Compounds							**Qvalue**
PFBA	2.765	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	4.024	263.0 -> 219.0	506	5.416	µg/L		100
PFBS	4.078	299.0 -> 80.0	0	0.000	µg/L	m	1
PFHxA	4.921	313.0 -> 269.0	944	3.645	µg/L		96
PFHxS	5.743	399.0 -> 80.0	1954	4.912	µg/L		86
PFHpA	5.748	363.0 -> 319.0	387	0.804	µg/L		47
PFOA	6.488	413.0 -> 369.0	10702	11.405	µg/L	# m	76
PFOS	7.141	499.0 -> 80.0	4465	6.400	µg/L	m	99
MeFOSAA	7.163	570.0 -> 419.0	152	0.000	µg/L		100
EtFOSAA	7.587	584.0 -> 419.0	663	0.000	µg/L		100

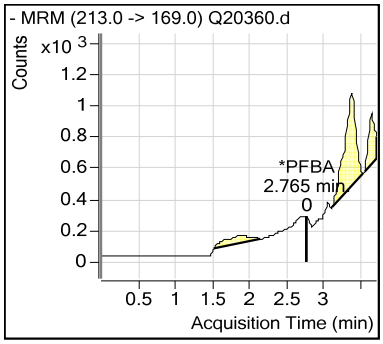
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

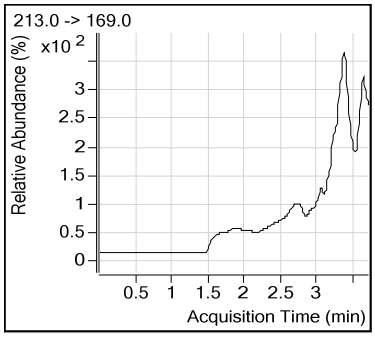
Perfluorinated Compounds by LC/MS/MS.

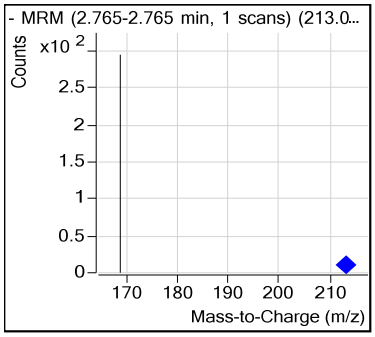
Data File	:	Q20360.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 12:17
Sample Name	:	FA32826-8
Vial	:	Vial 9
Sample Info	:	OP59984,SQ609,125,,,1,5,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28



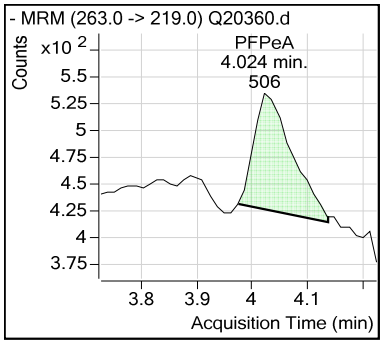
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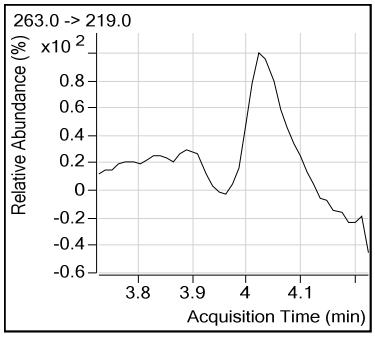


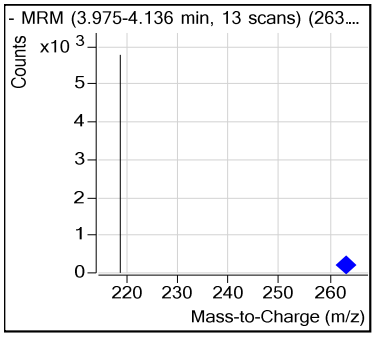




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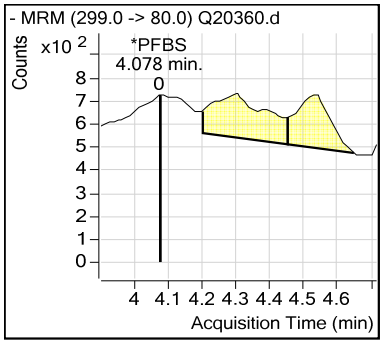


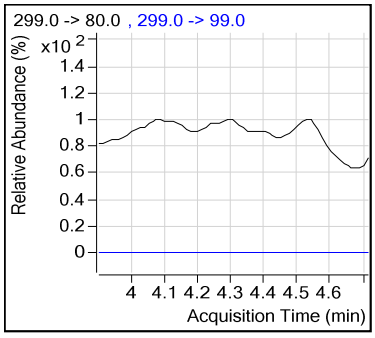


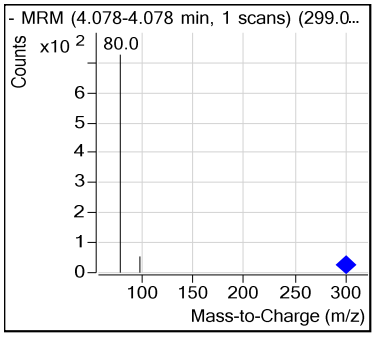


Perfluorinated Compounds by LC/MS/MS.

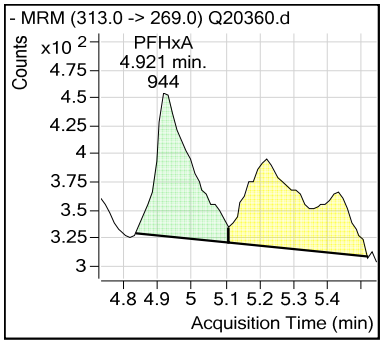
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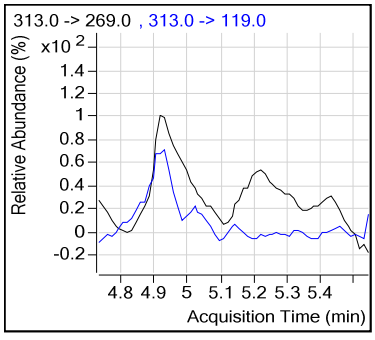


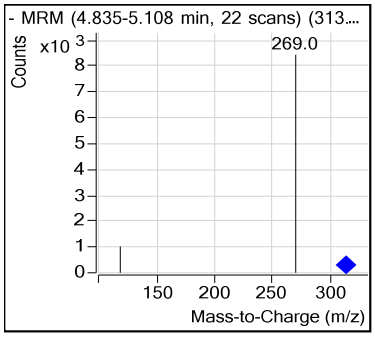




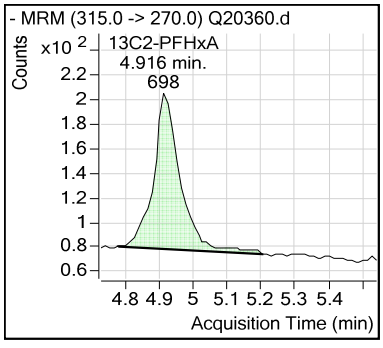
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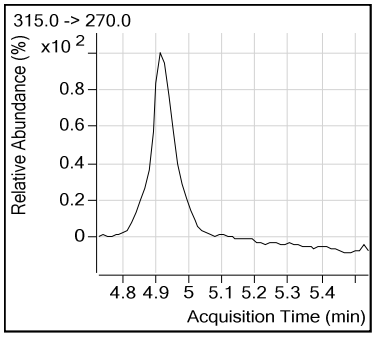


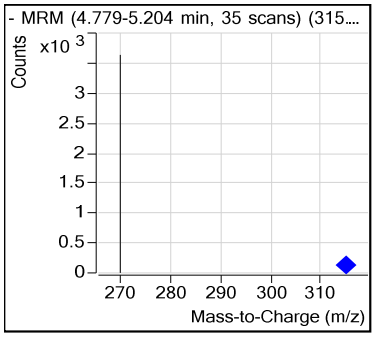




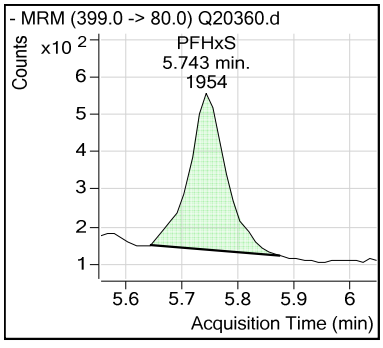
13C2-PFHxA

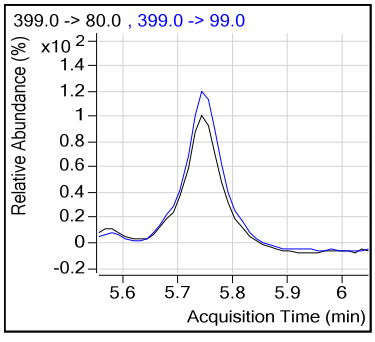


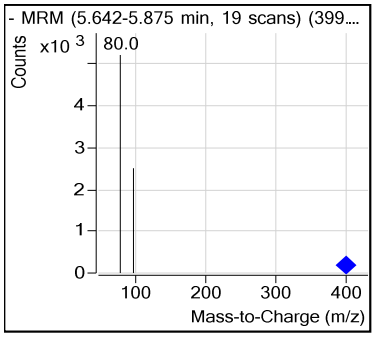




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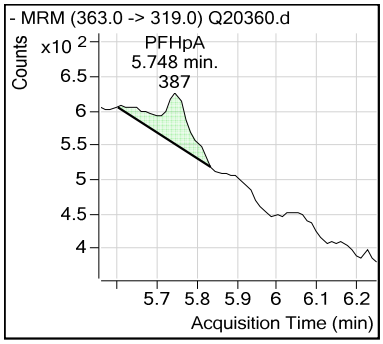


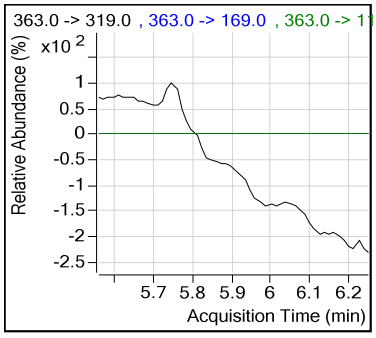


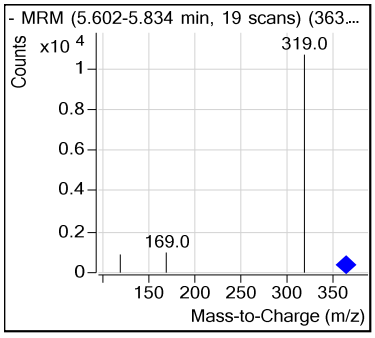


Perfluorinated Compounds by LC/MS/MS.

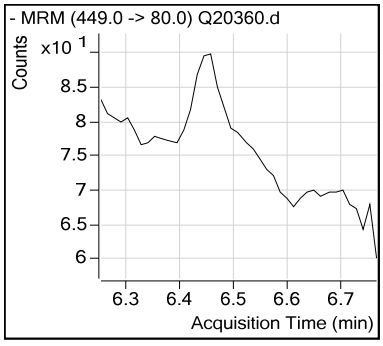
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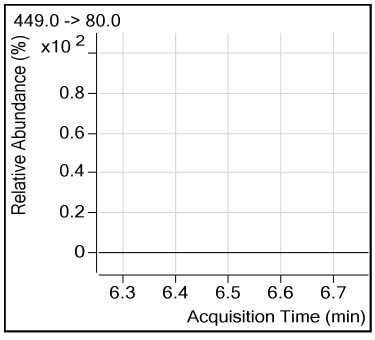


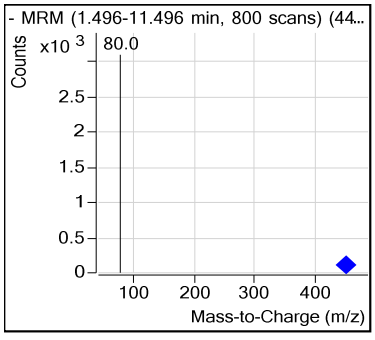




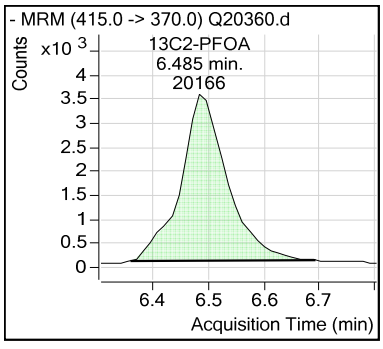
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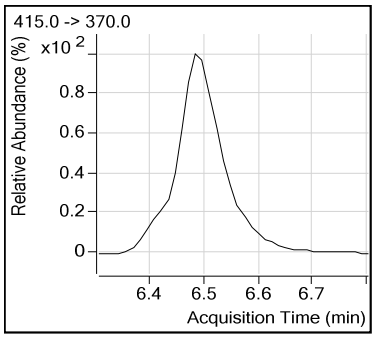


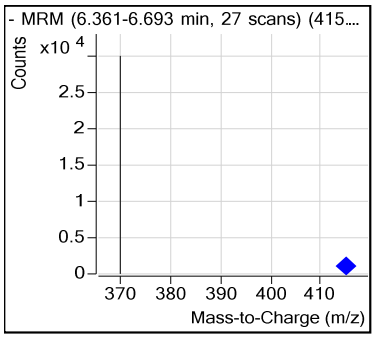




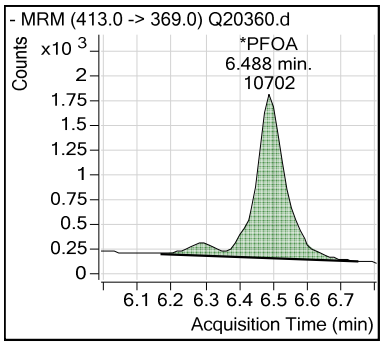
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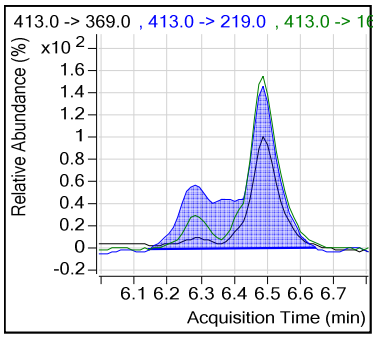


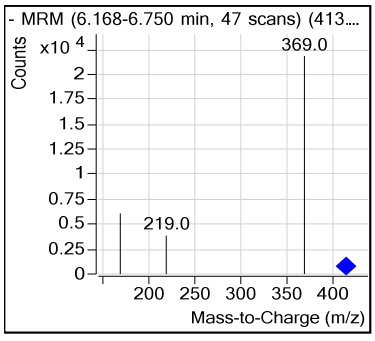




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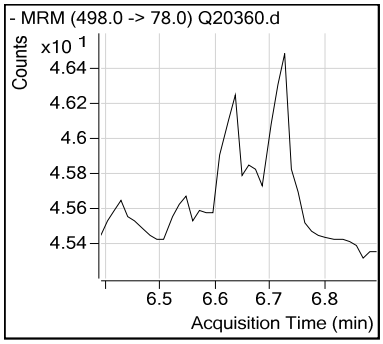


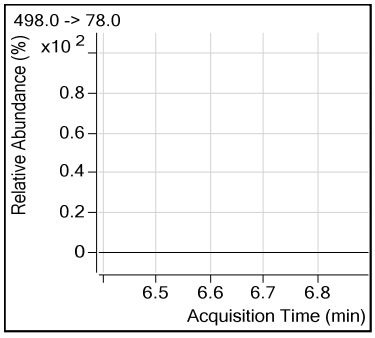


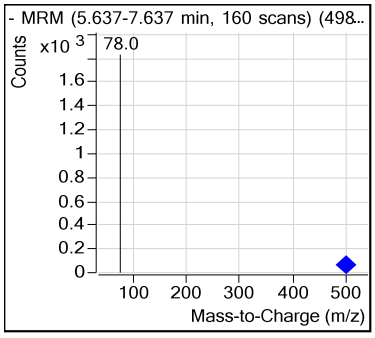


Perfluorinated Compounds by LC/MS/MS.

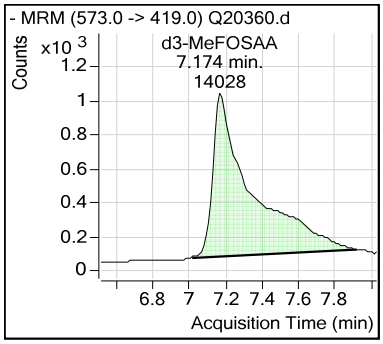
PFOSA

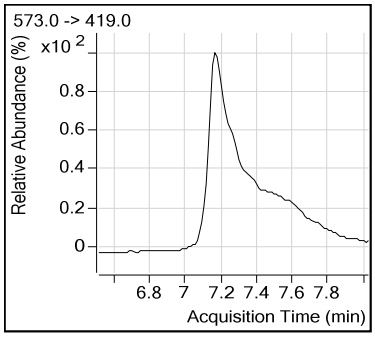


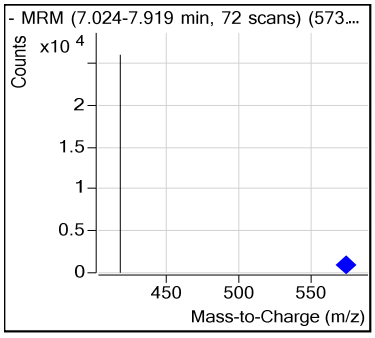




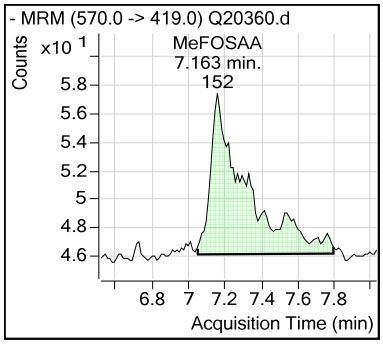
d3-MeFOSAA

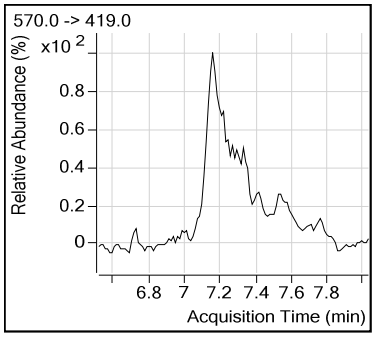


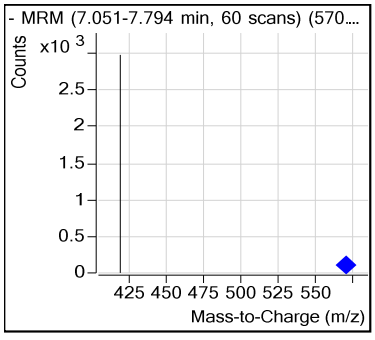




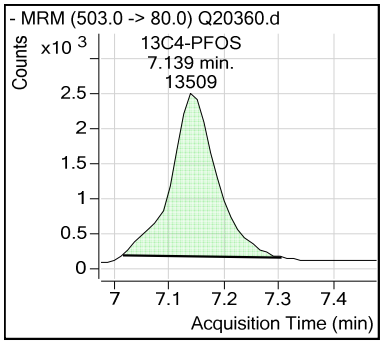
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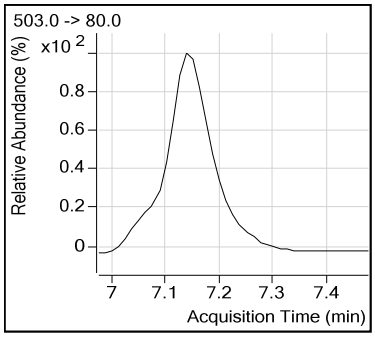


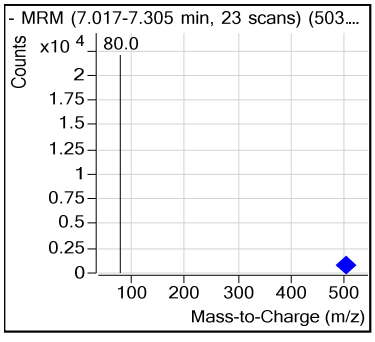




13C4-PFOS

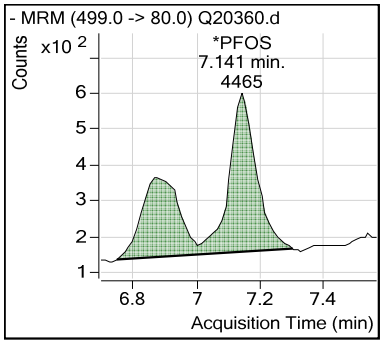


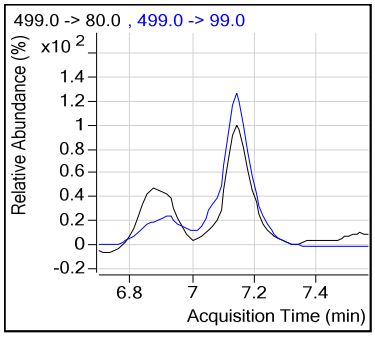


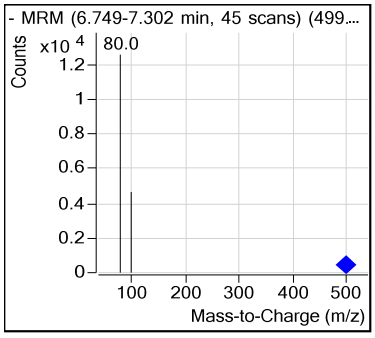


Perfluorinated Compounds by LC/MS/MS.

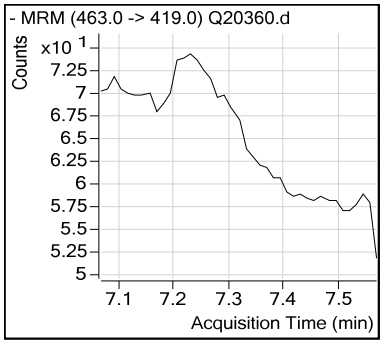
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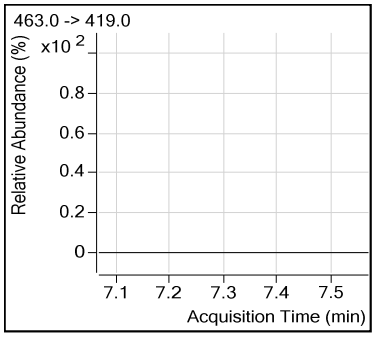


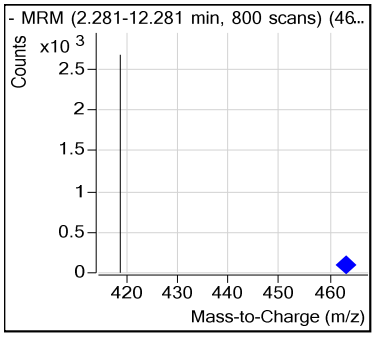




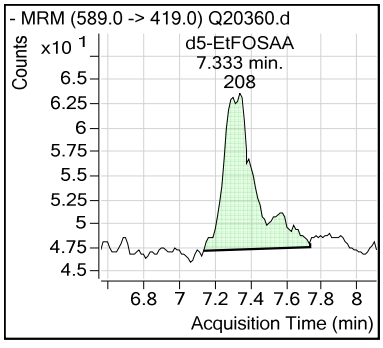
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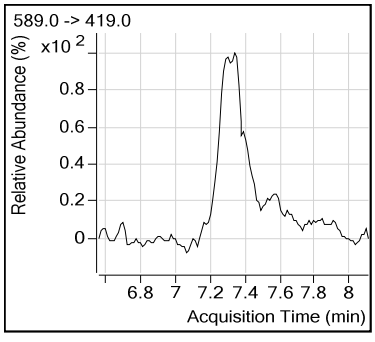


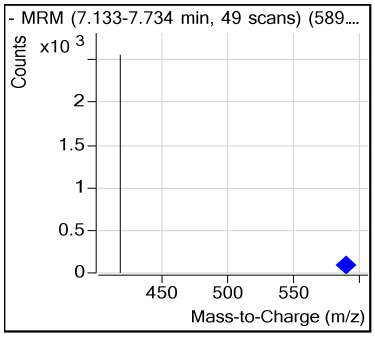




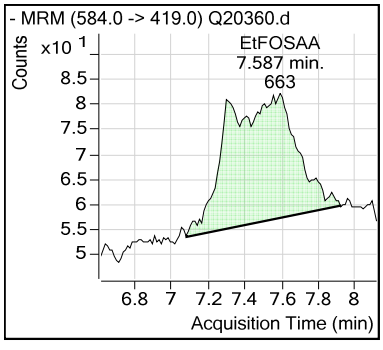
d5-EtFOSAA

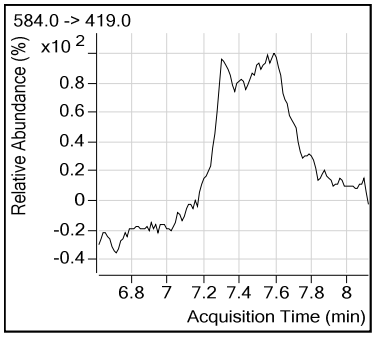


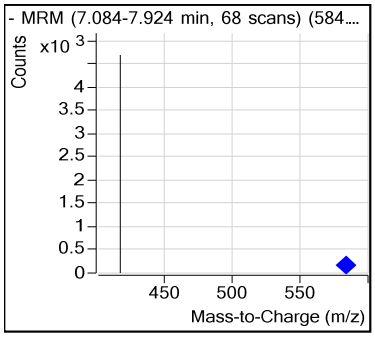




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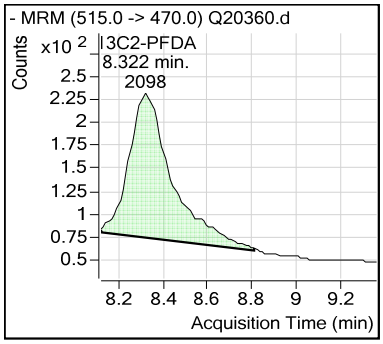


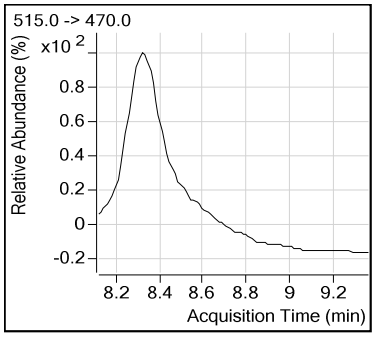


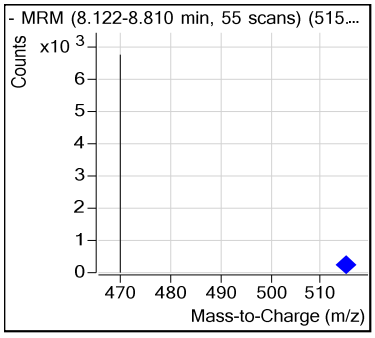


Perfluorinated Compounds by LC/MS/MS.

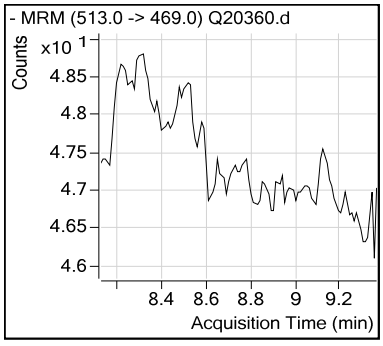
13C2-PFDA

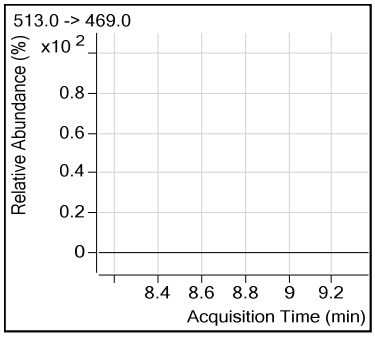


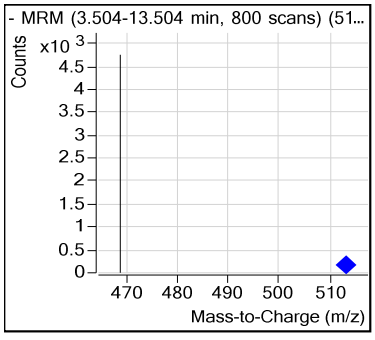




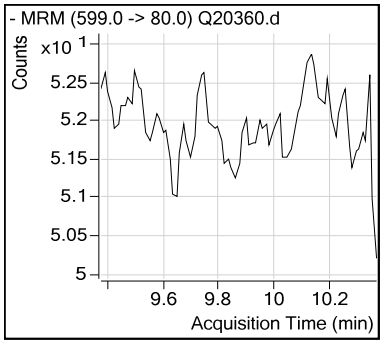
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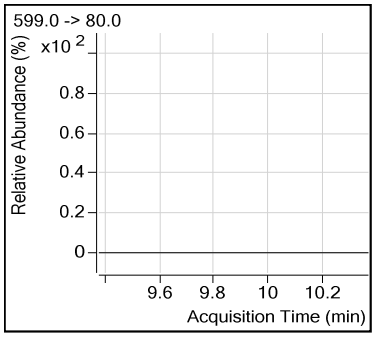


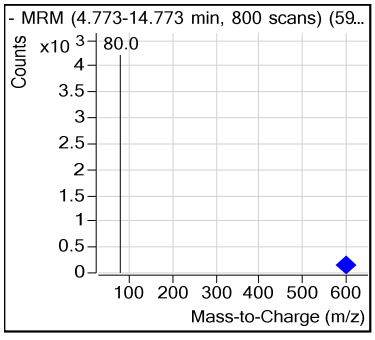




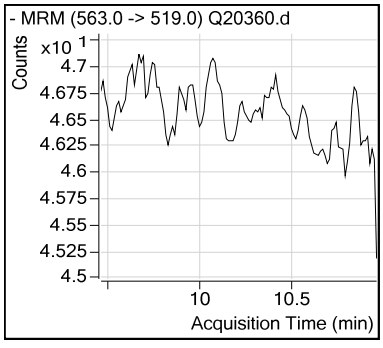
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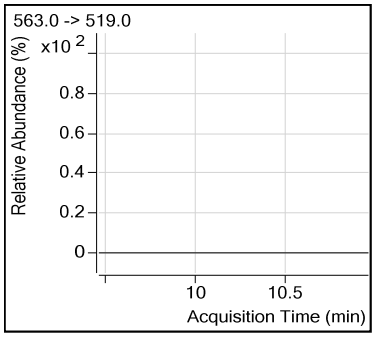


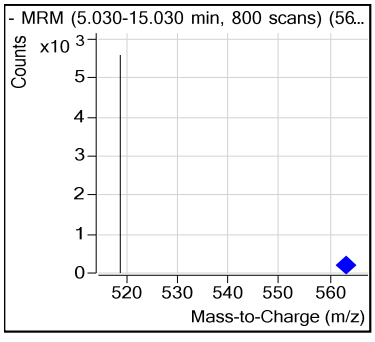




PFUnDA

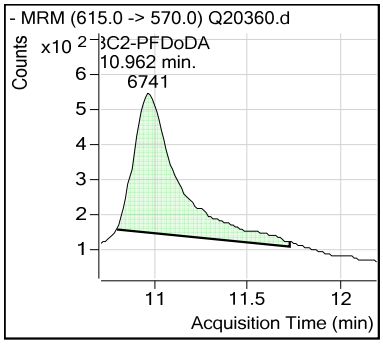


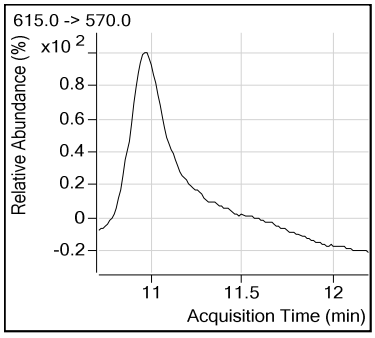


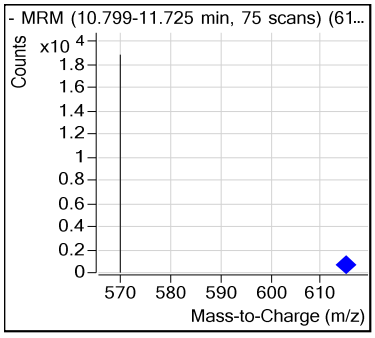


Perfluorinated Compounds by LC/MS/MS.

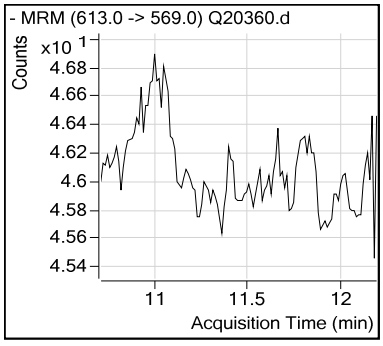
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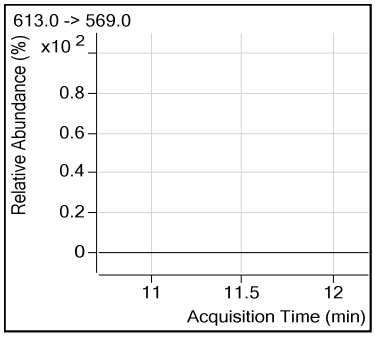


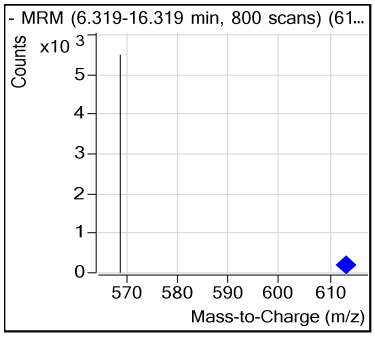




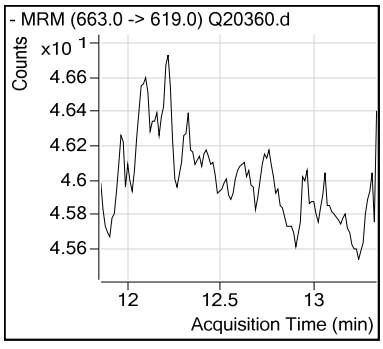
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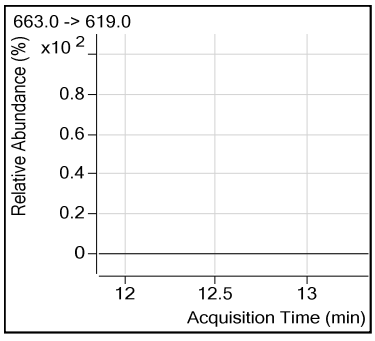


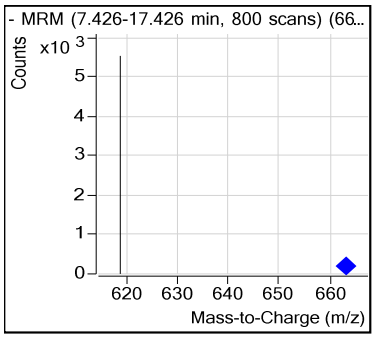




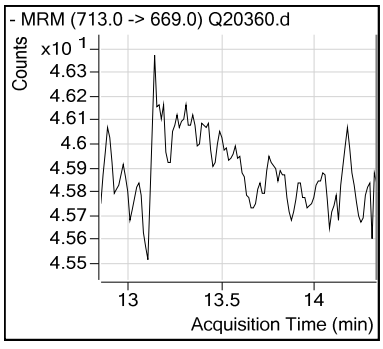
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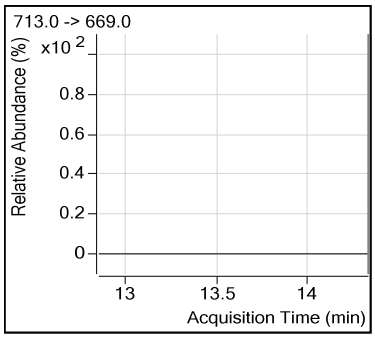


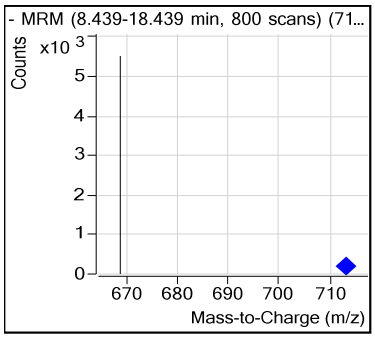




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-8	**Method:**	EPA 537 MOD
Lab FileID:	Q20360.D	**Analyst approved:**	04/19/16 14:32 Nancy Saunders
Injection Time:	04/14/16 12:17	**Supervisor approved:**	04/19/16 17:16 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorooctanoic acid	335-67-1		6.49	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.14	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:18

Perfluorinated Compounds by LC/MS/MS.

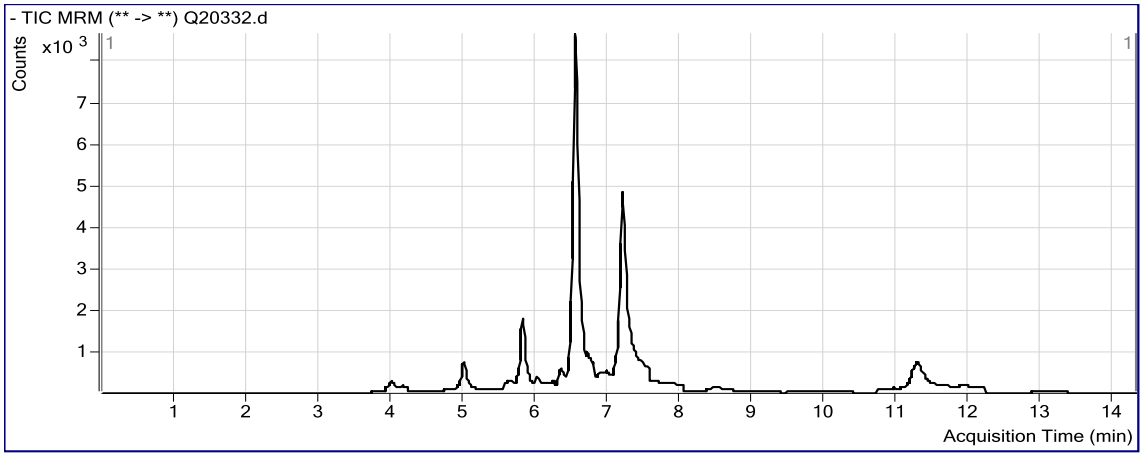
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 21:26
Sample Name	:	FA32826-9
Vial	:	Vial 24
Sample Info	:	OP59984,SQ608,125,,,1.0,10,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.550	415.0 -> 370.0	29699	20.000	µg/L		0.013
d3-MeFOSAA	7.186	573.0 -> 419.0	12627	40.000	µg/L		0.000
13C4-PFOS	7.189	503.0 -> 80.0	17046	20.000	µg/L		0.000
13C2-PFDoDA	11.263	615.0 -> 570.0	10041	20.000	µg/L		-0.050
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	799	2.09	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 10.45%				
d5-EtFOSAA	7.308	589.0 -> 419.0	762	0.00	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.472	515.0 -> 470.0	1545	1.69	µg/L		-0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 8.46%				
Target Compounds							**Qvalue**
PFPeA	3.999	263.0 -> 219.0	765	5.556	µg/L		100
PFHxA	4.996	313.0 -> 269.0	2656	6.965	µg/L		98
PFHxS	5.805	399.0 -> 80.0	2581	5.143	µg/L	m	85
PFHpA	5.810	363.0 -> 319.0	3707	5.231	µg/L	#	70
PFOA	6.539	413.0 -> 369.0	14781	10.695	µg/L	# m	74
PFOS	7.191	499.0 -> 80.0	2072	2.354	µg/L	m	99
MeFOSAA	7.200	570.0 -> 419.0	895	0.000	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	831	0.000	µg/L		100

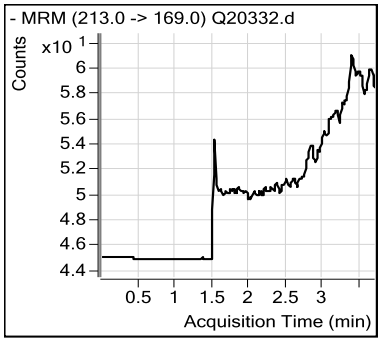
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

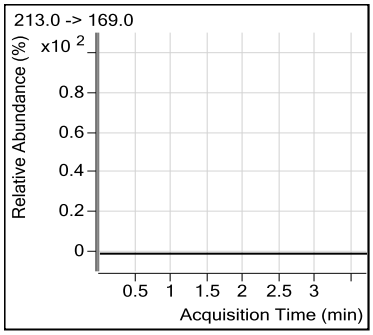
Perfluorinated Compounds by LC/MS/MS.

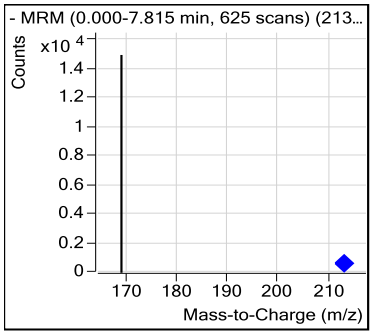
Data File	:	Q20332.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 21:26
Sample Name	:	FA32826-9
Vial	:	Vial 24
Sample Info	:	OP59984,SQ608,125,,,1.0,10,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



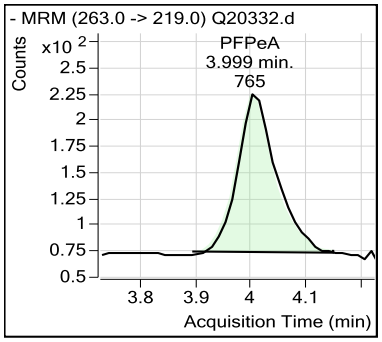
PFBA

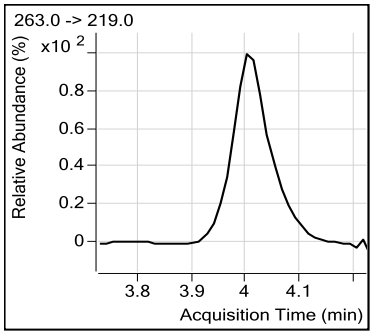


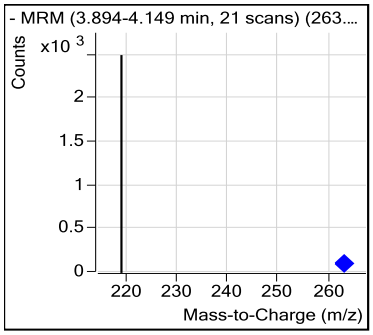




PFPeA

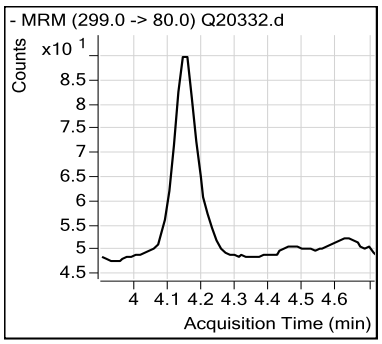


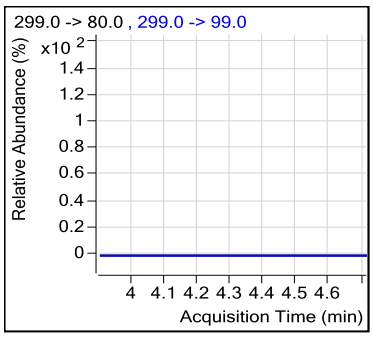


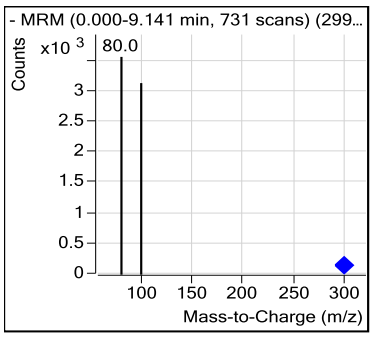


Perfluorinated Compounds by LC/MS/MS.

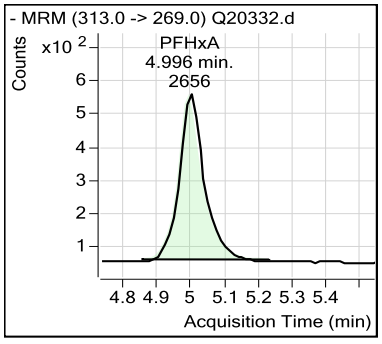
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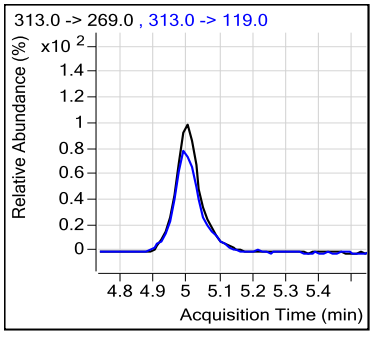


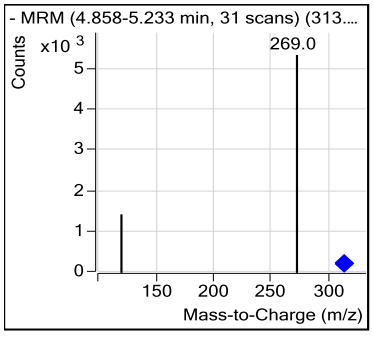




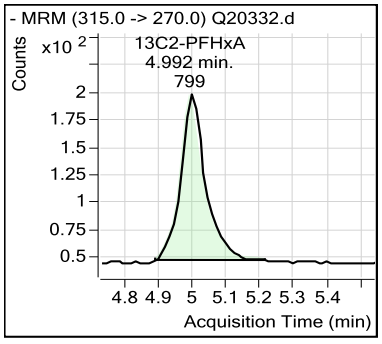
PFHxA

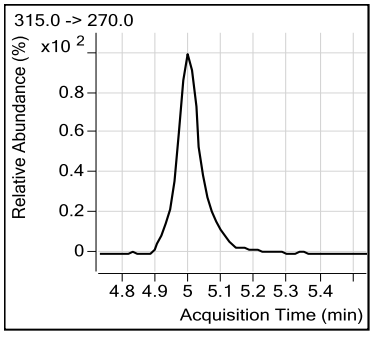


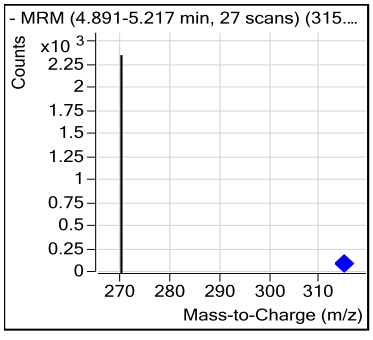




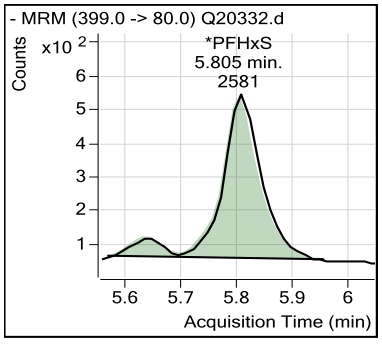
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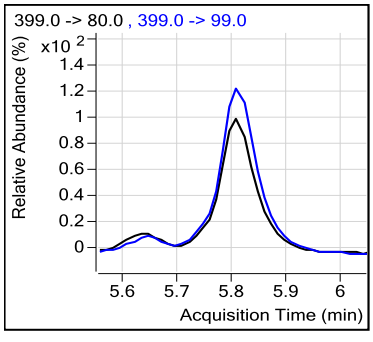


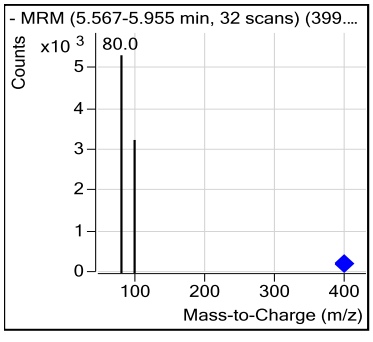




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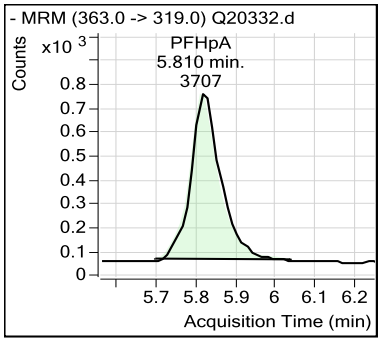


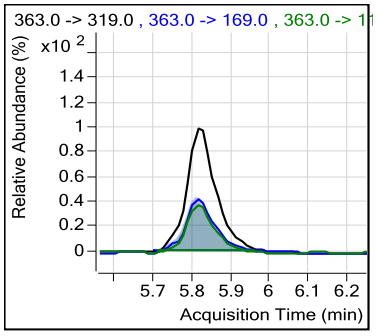


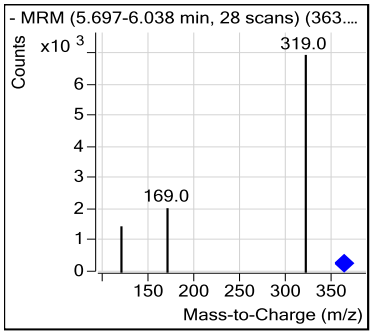


Perfluorinated Compounds by LC/MS/MS.

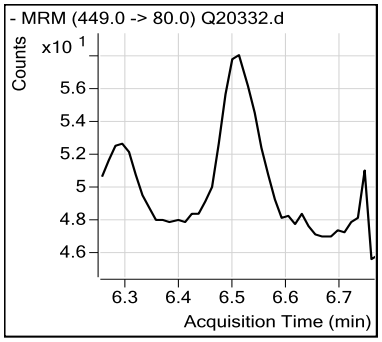
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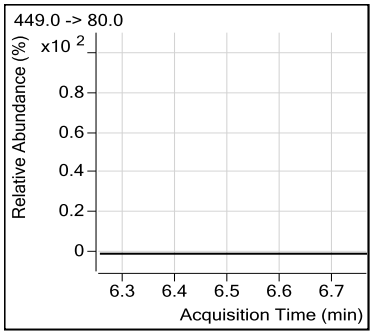


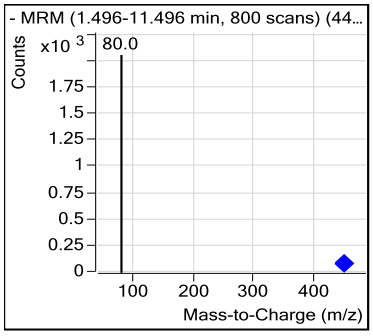




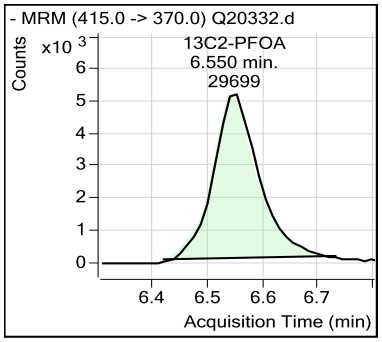
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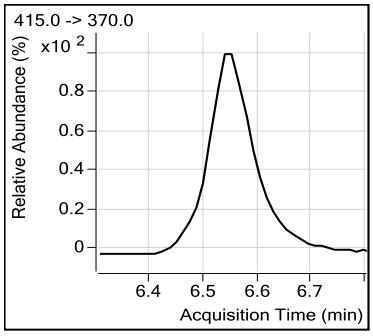


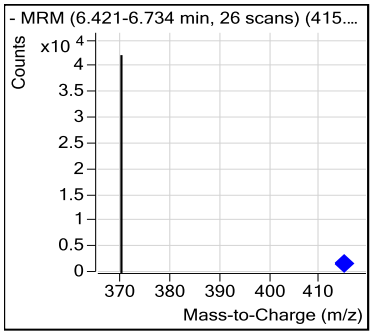




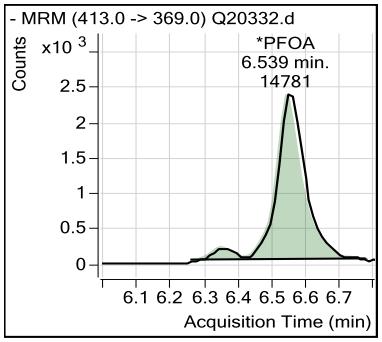
13C2-PFOA

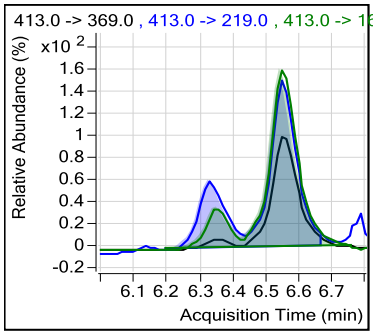


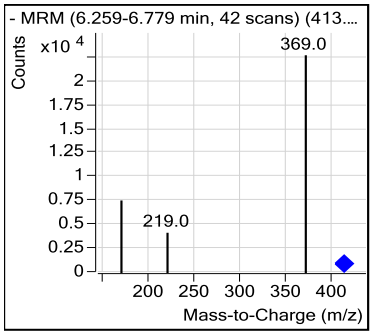




PFOA





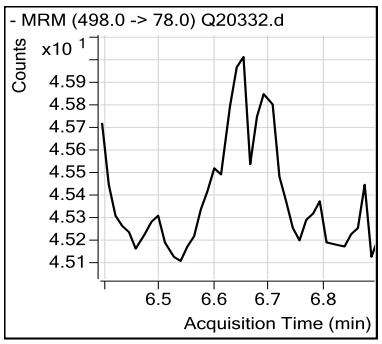


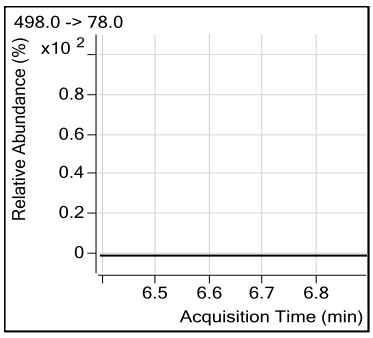
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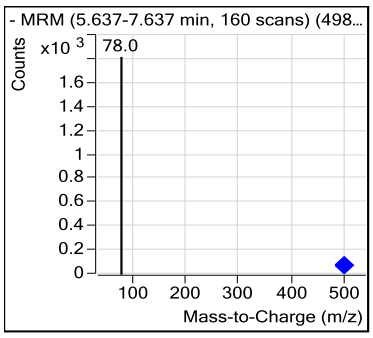
7

Perfluorinated Compounds by LC/MS/MS.

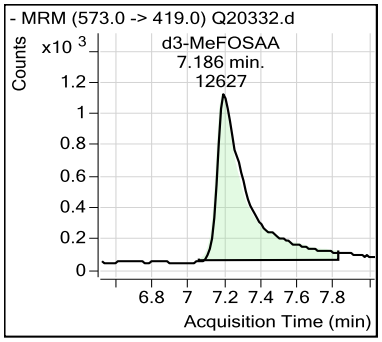
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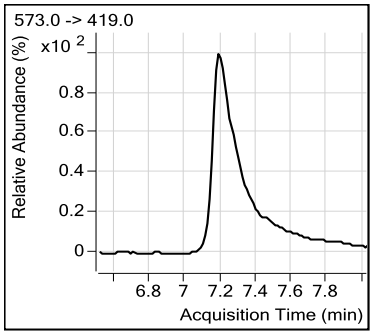


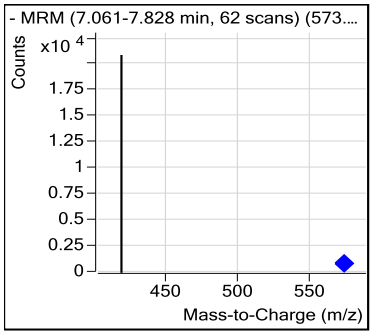




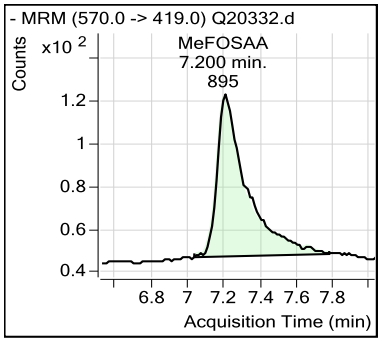
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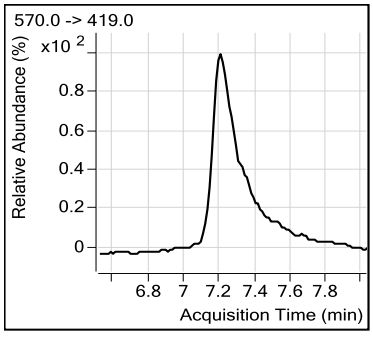


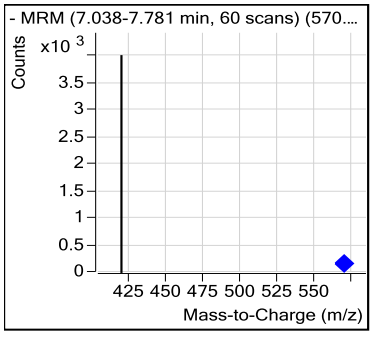




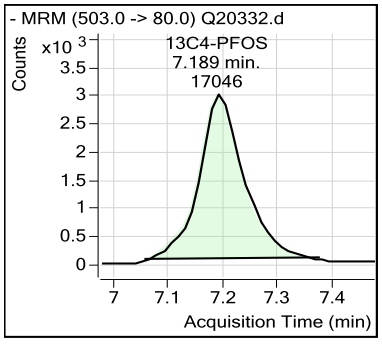
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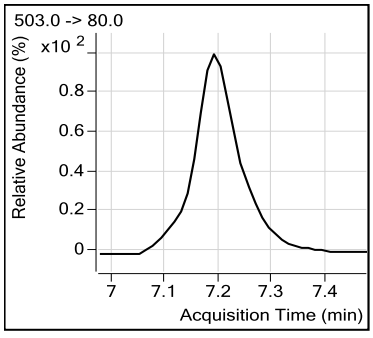


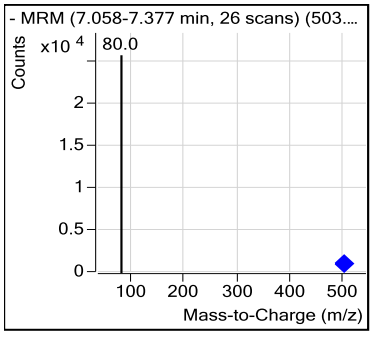




13C4-PFOS

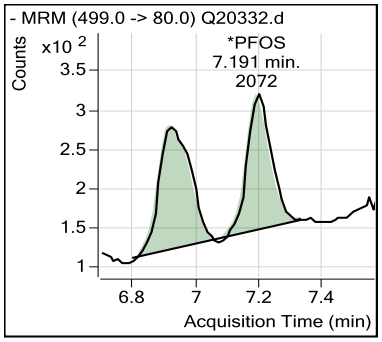


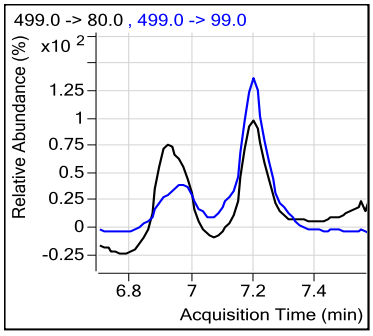


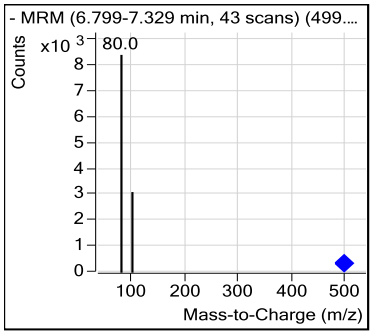


Perfluorinated Compounds by LC/MS/MS.

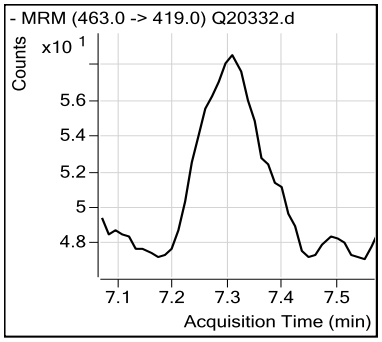
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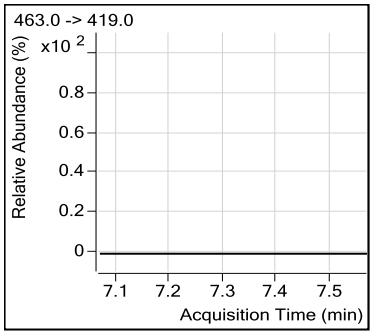


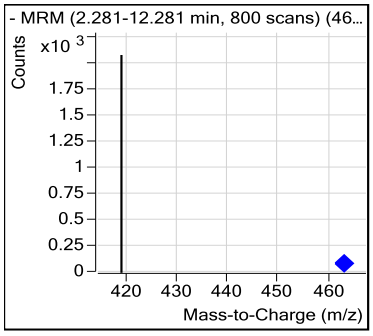




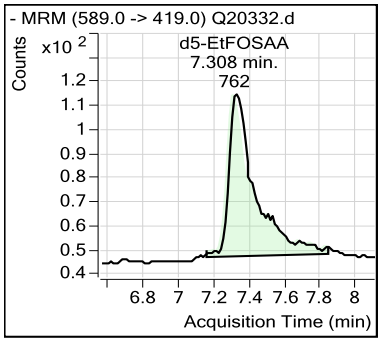
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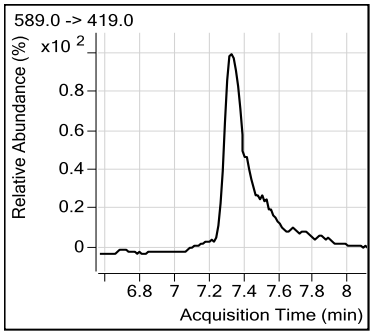


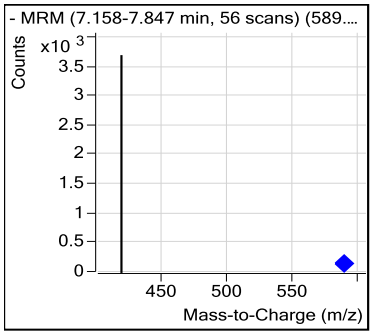




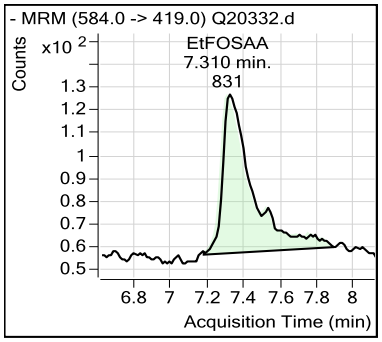
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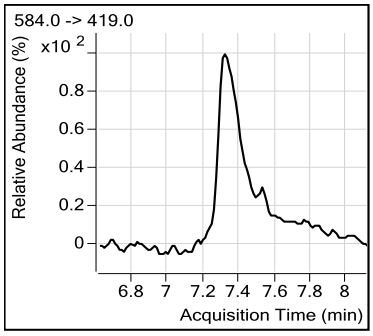


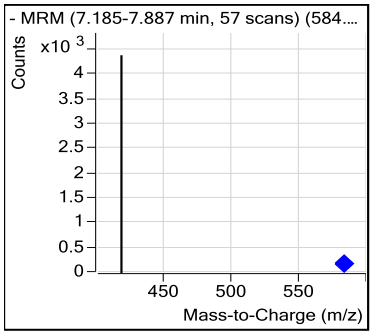




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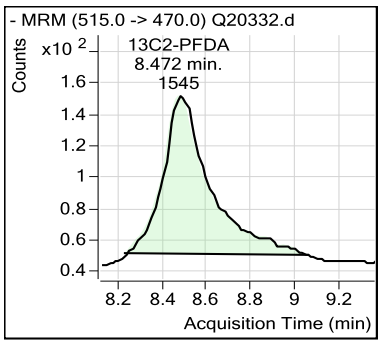


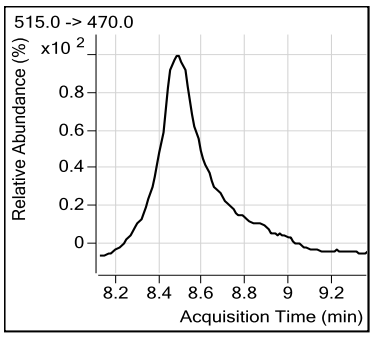


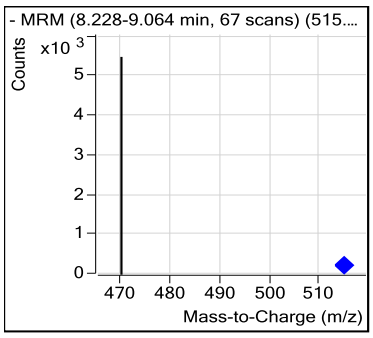


Perfluorinated Compounds by LC/MS/MS.

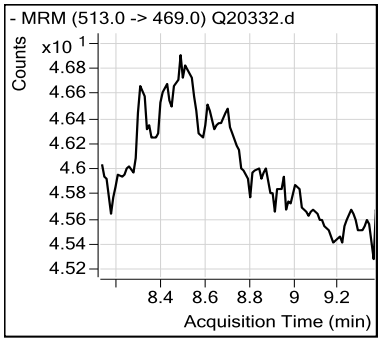
13C2-PFDA

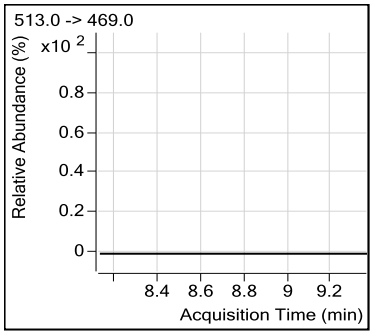


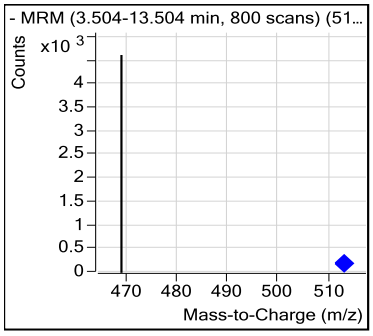




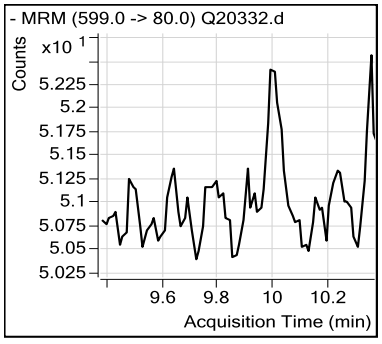
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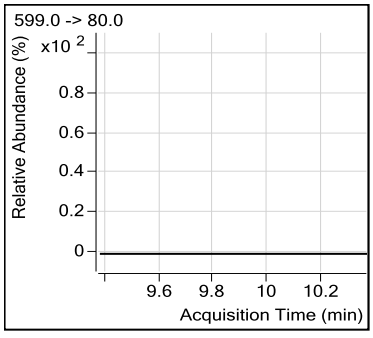


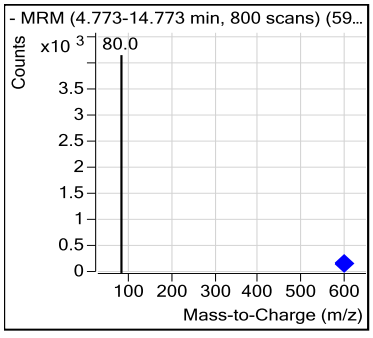




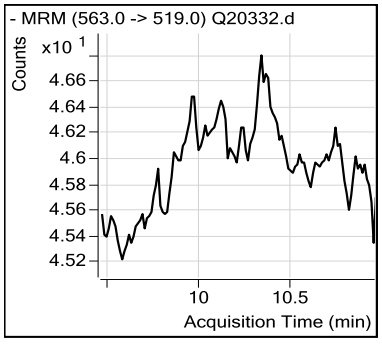
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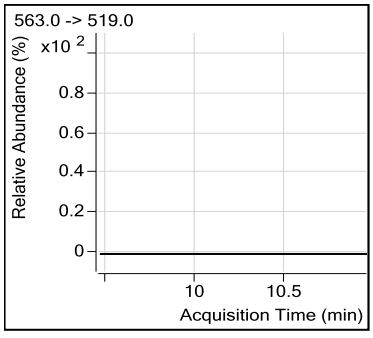


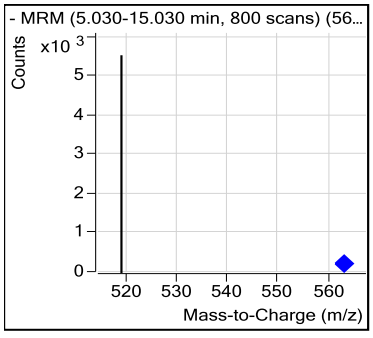




PFUnDA

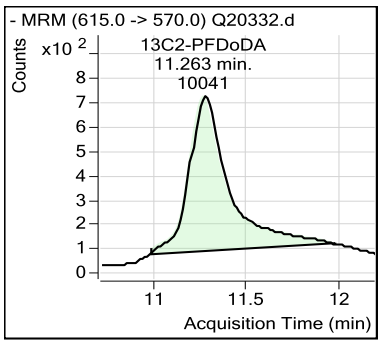


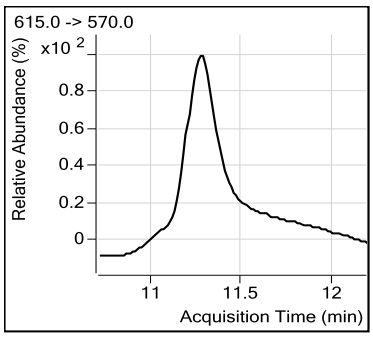


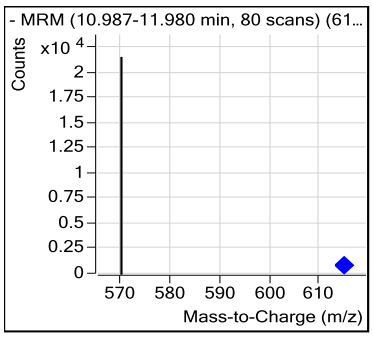


Perfluorinated Compounds by LC/MS/MS.

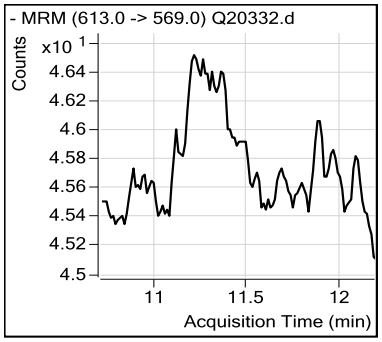
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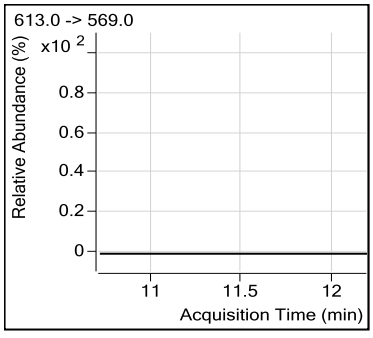


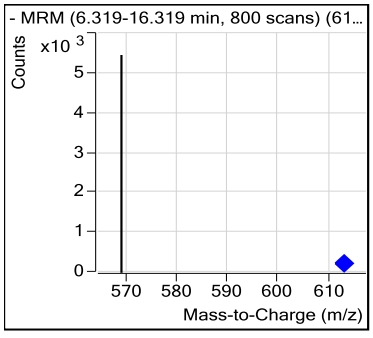




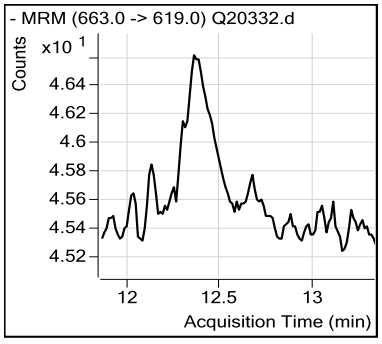
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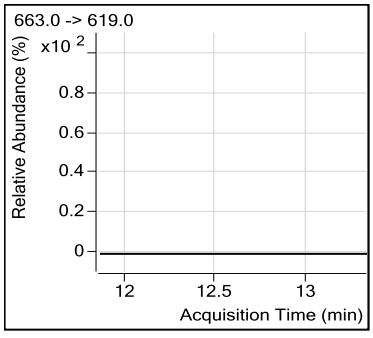


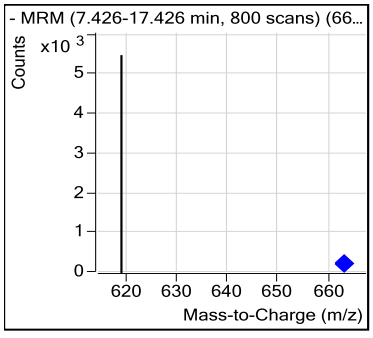




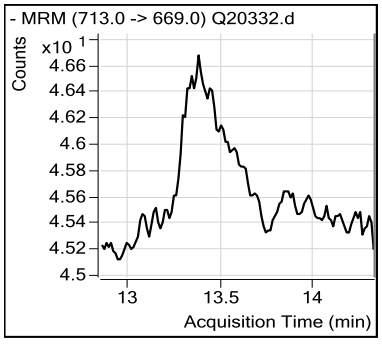
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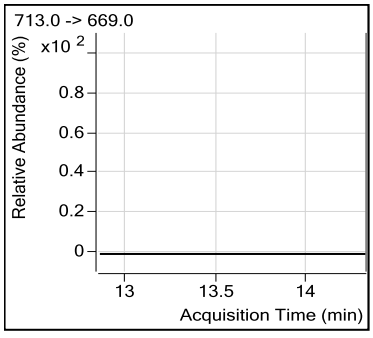


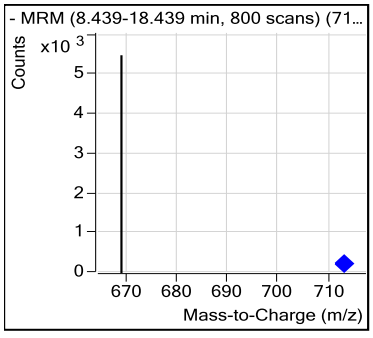




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-9	**Method:**	EPA 537 MOD
Lab FileID:	Q20332.D	**Analyst approved:**	04/14/16 13:33 Nancy Saunders
Injection Time:	04/13/16 21:26	**Supervisor approved:**	04/14/16 17:18 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.80	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.19	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:18

Perfluorinated Compounds by LC/MS/MS.

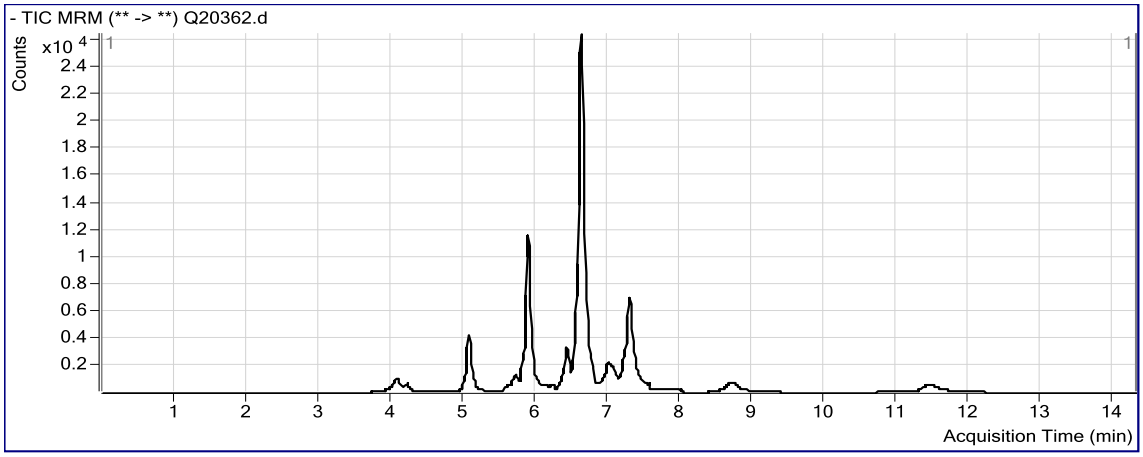
Data File	:	Q20362.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 12:59
Sample Name	:	FA32826-9
Vial	:	Vial 11
Sample Info	:	OP59984,SQ609,125,,,1,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.627	415.0 -> 370.0	22032	20.000	µg/L		0.089
d3-MeFOSAA	7.236	573.0 -> 419.0	14344	40.000	µg/L		0.050
13C4-PFOS	7.290	503.0 -> 80.0	16658	20.000	µg/L		0.100
13C2-PFDoDA	11.425	615.0 -> 570.0	8160	20.000	µg/L		0.113
System Monitoring Compounds							
13C2-PFHxA	5.067	315.0 -> 270.0	4962	17.50	µg/L		0.075
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 87.51%				
d5-EtFOSAA	7.346	589.0 -> 419.0	201	0.00	µg/L		0.050
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.698	515.0 -> 470.0	10780	15.91	µg/L		0.200
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 79.57%				
Target Compounds							**Qvalue**
PFPeA	4.074	263.0 -> 219.0	4777	46.770	µg/L		100
PFBS	4.220	299.0 -> 80.0	1844	6.562	µg/L		96
PFHxA	5.071	313.0 -> 269.0	17112	60.486	µg/L		98
PFHxS	5.883	399.0 -> 80.0	22695	46.266	µg/L	m	87
PFHpA	5.885	363.0 -> 319.0	25171	47.882	µg/L	#	70
PFHpS	6.575	449.0 -> 80.0	582	1.090	µg/L		100
PFOA	6.628	413.0 -> 369.0	108168	105.508	µg/L	# m	74
MeFOSAA	7.275	570.0 -> 419.0	90	0.000	µg/L		100
PFOS	7.293	499.0 -> 80.0	23335	27.126	µg/L	m	93
PFNA	7.394	463.0 -> 419.0	428	0.857	µg/L		100
EtFOSAA	7.398	584.0 -> 419.0	312	0.000	µg/L		100

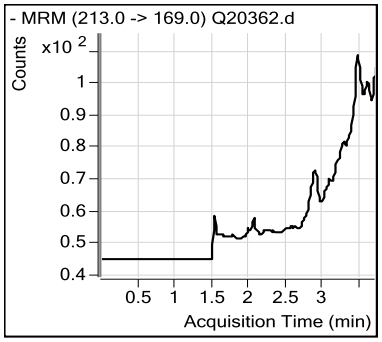
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

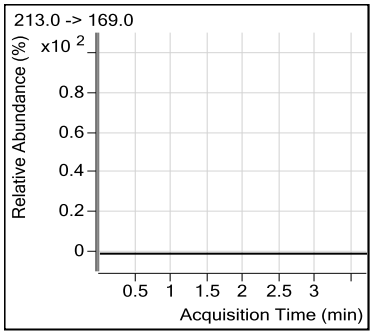
Perfluorinated Compounds by LC/MS/MS.

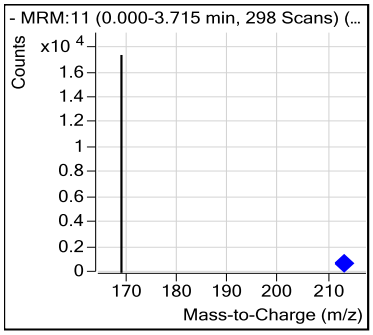
Data File	:	Q20362.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 12:59
Sample Name	:	FA32826-9
Vial	:	Vial 11
Sample Info	:	OP59984,SQ609,125,,,1,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28



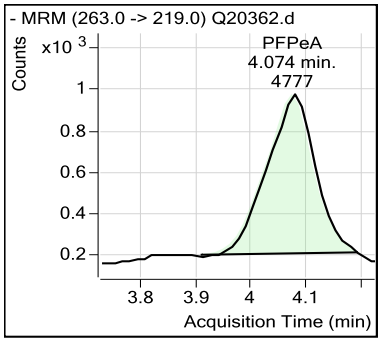
PFBA

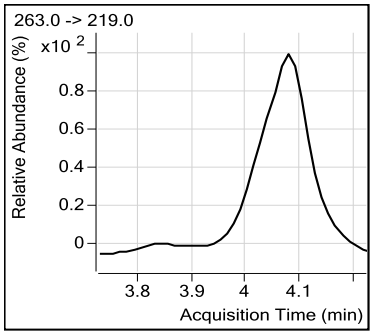


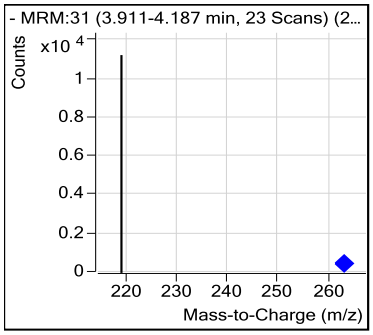




PFPeA

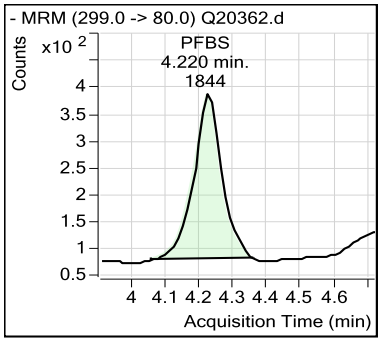


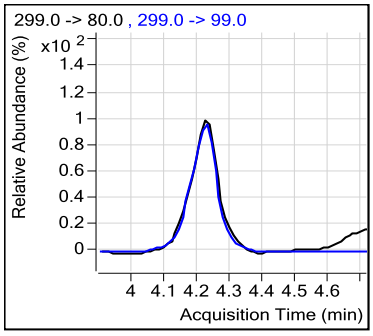


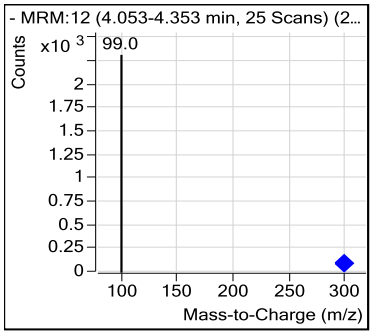


Perfluorinated Compounds by LC/MS/MS.

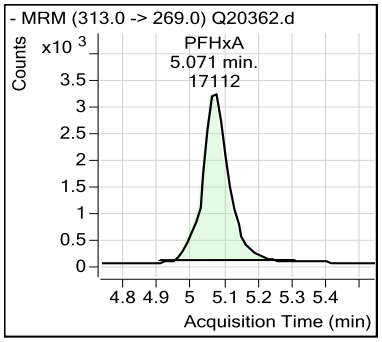
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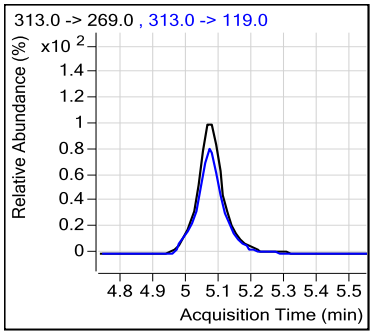


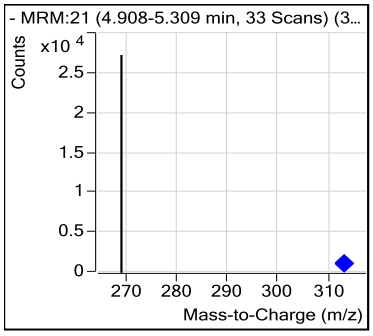




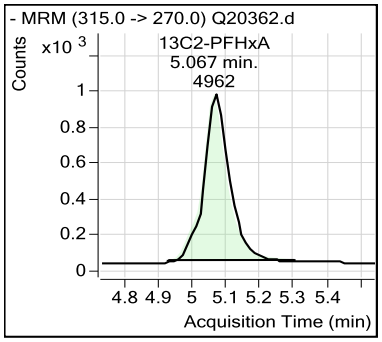
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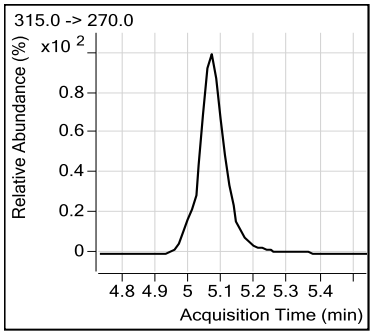


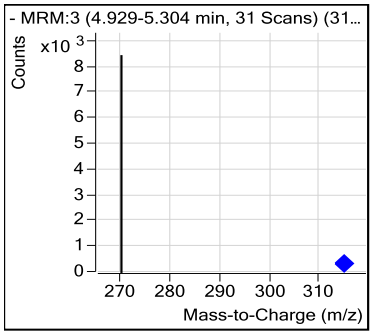




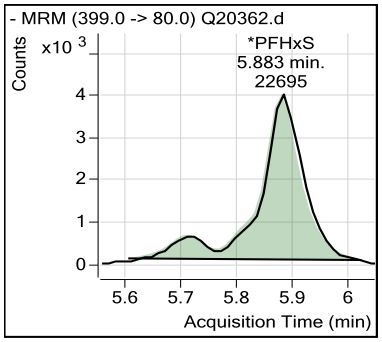
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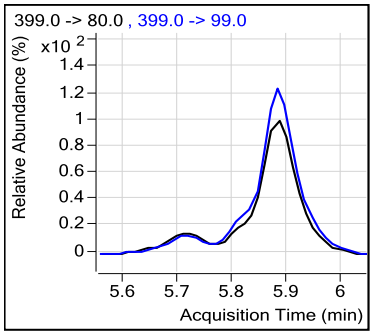


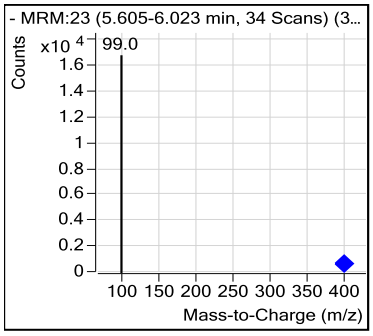




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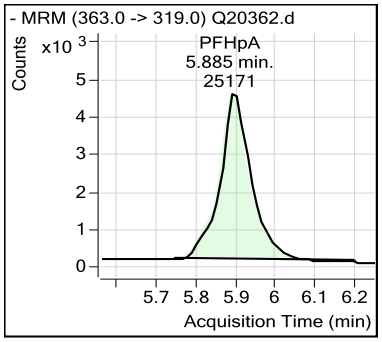


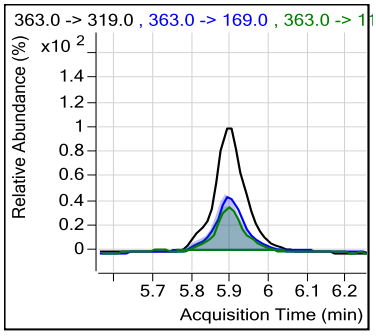


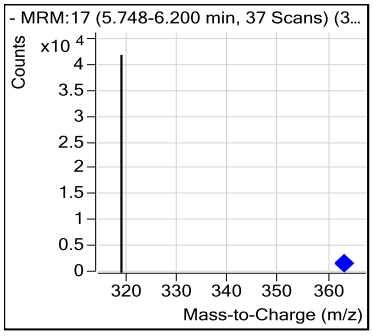


Perfluorinated Compounds by LC/MS/MS.

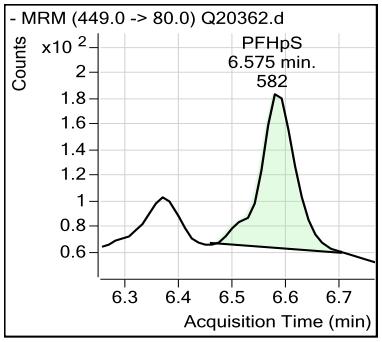
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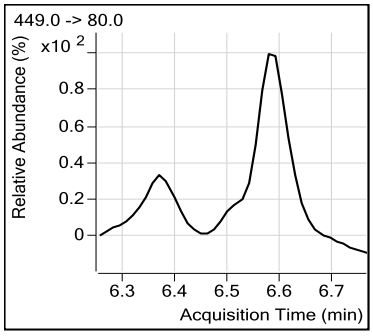


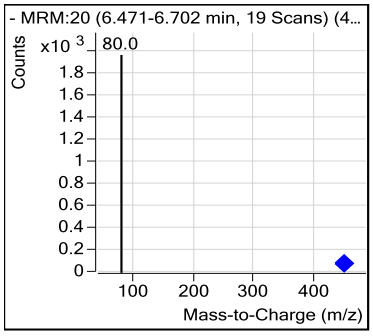




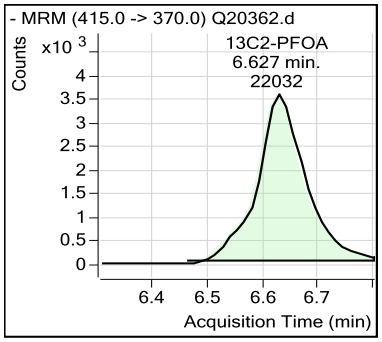
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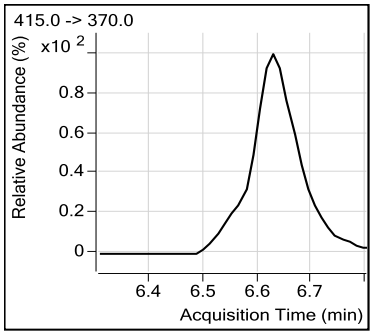


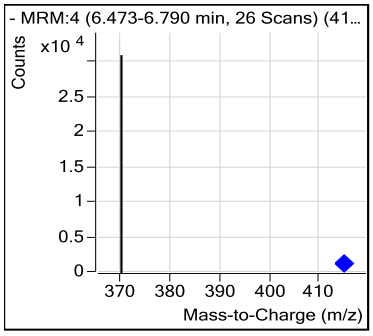




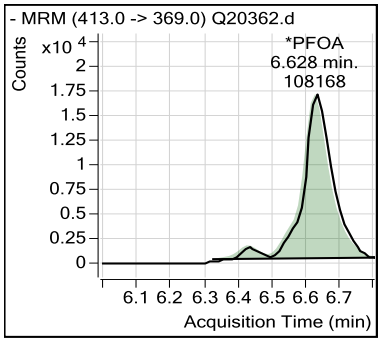
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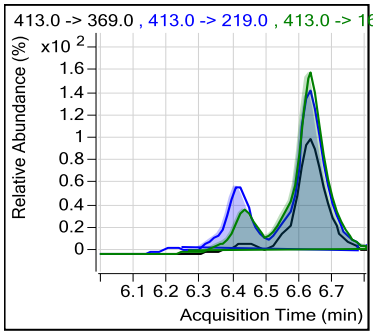


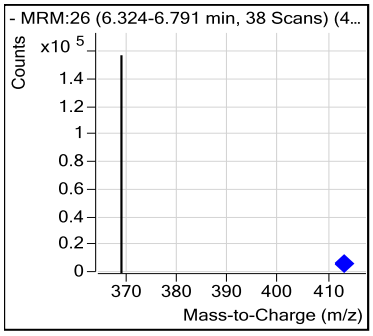




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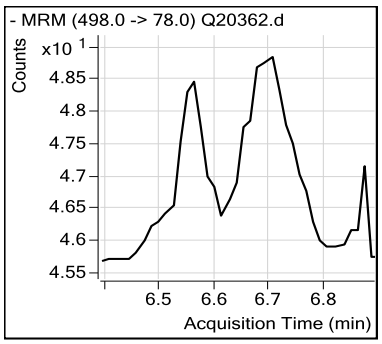


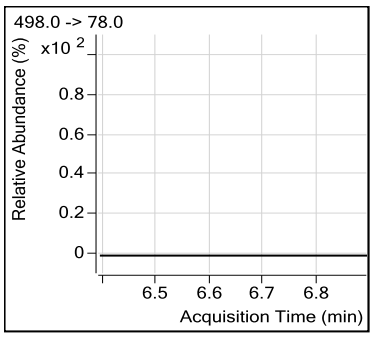


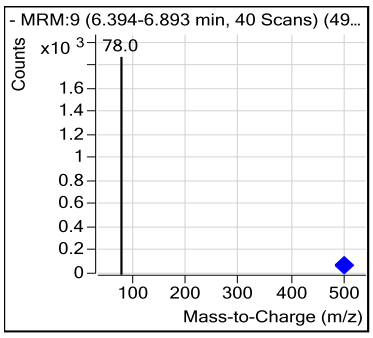


Perfluorinated Compounds by LC/MS/MS.

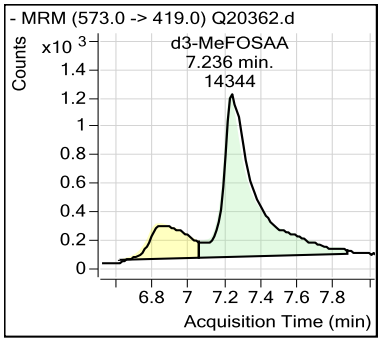
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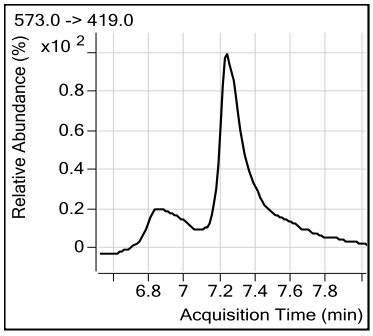


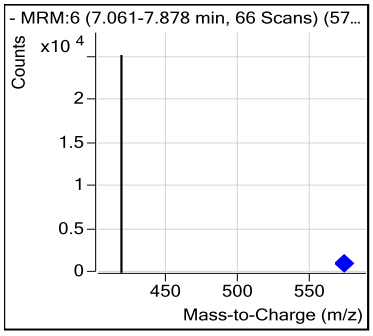




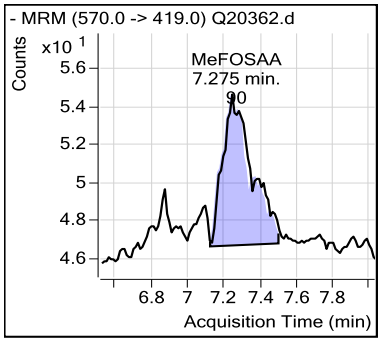
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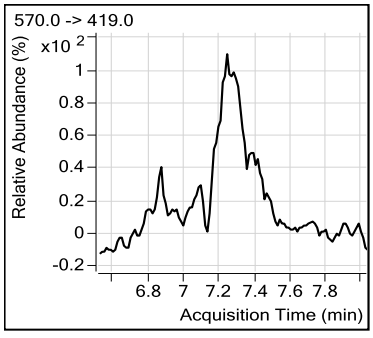


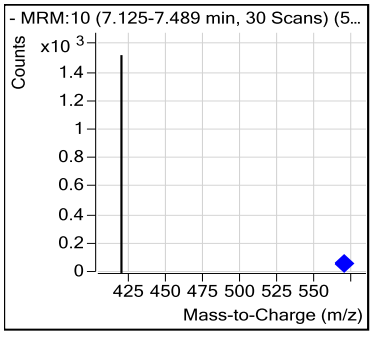




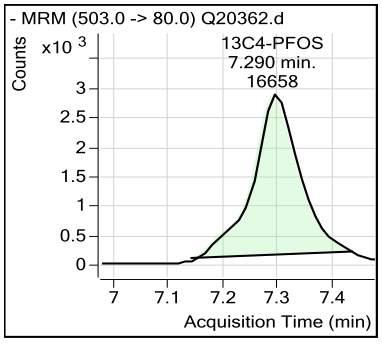
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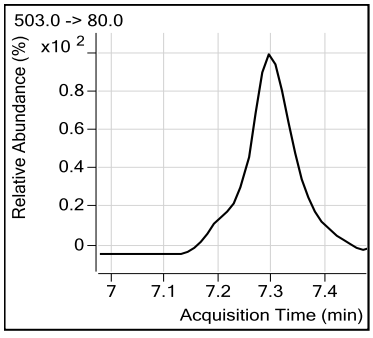


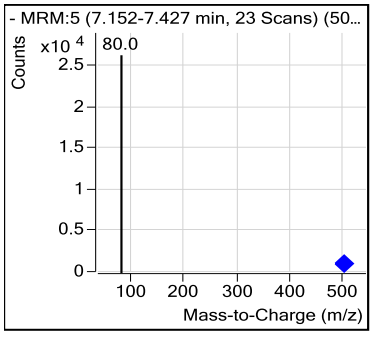




13C4-PFOS

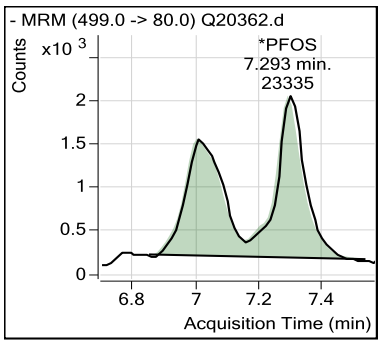


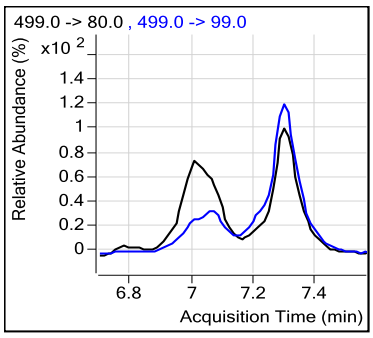


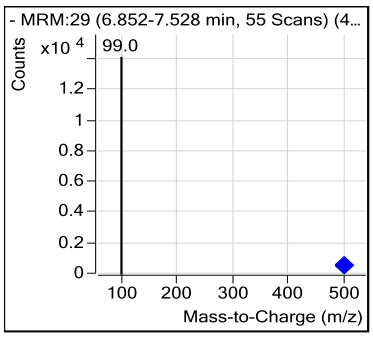


Perfluorinated Compounds by LC/MS/MS.

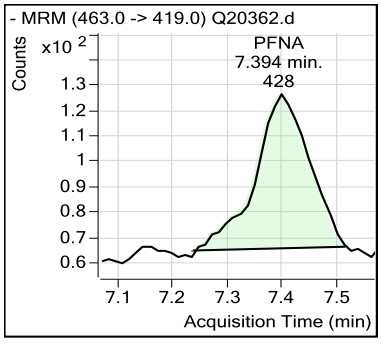
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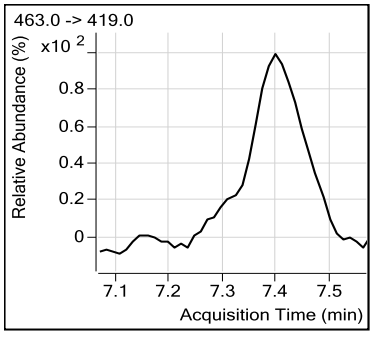


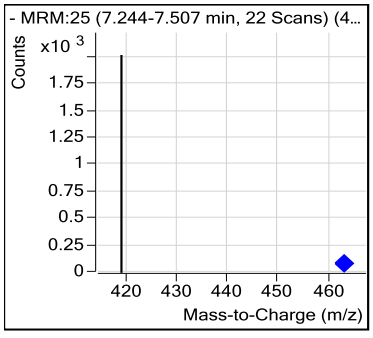




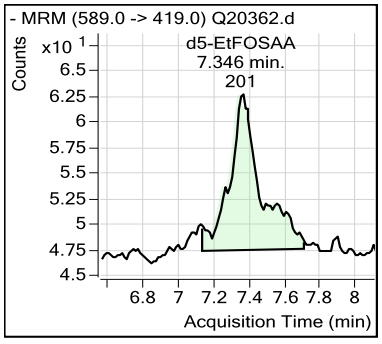
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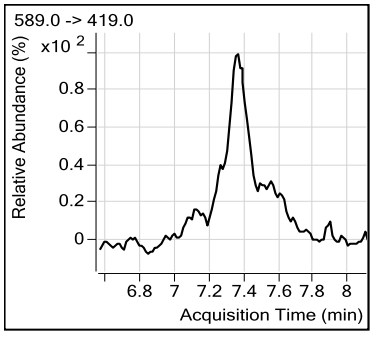


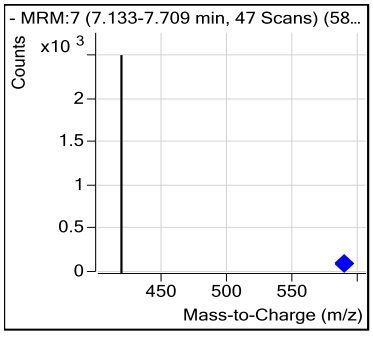




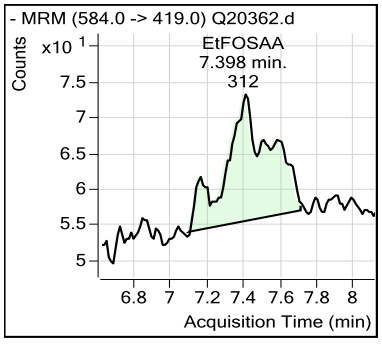
d5-EtFOSAA

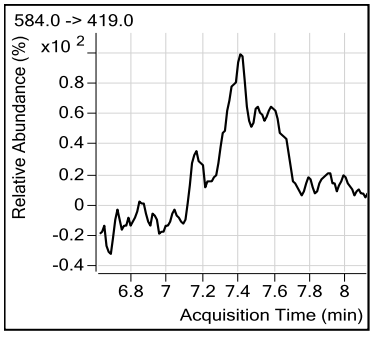


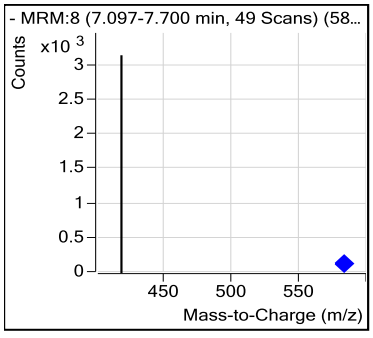




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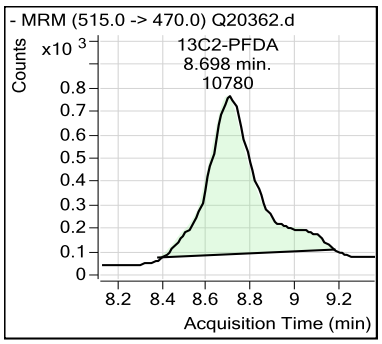


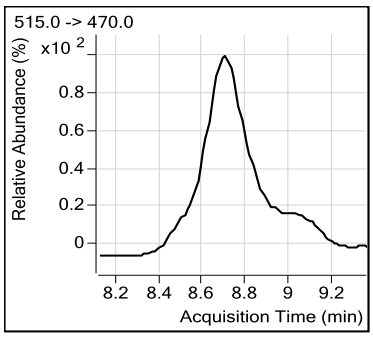


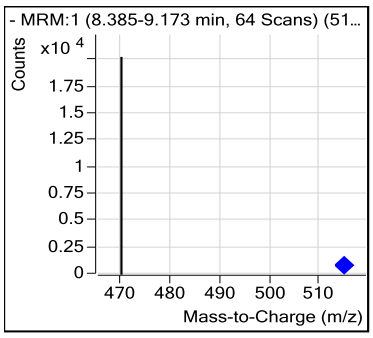


Perfluorinated Compounds by LC/MS/MS.

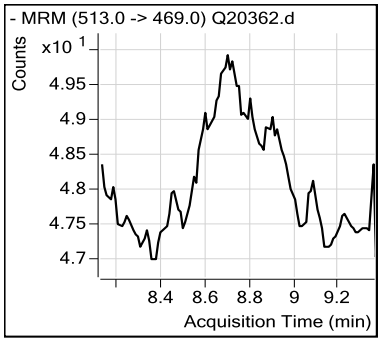
13C2-PFDA

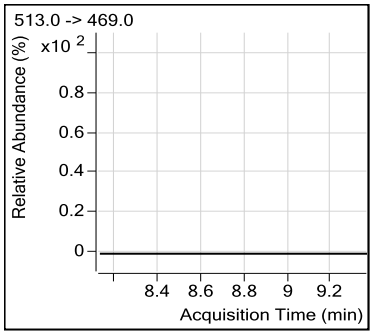


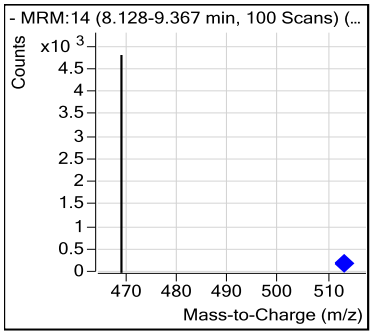




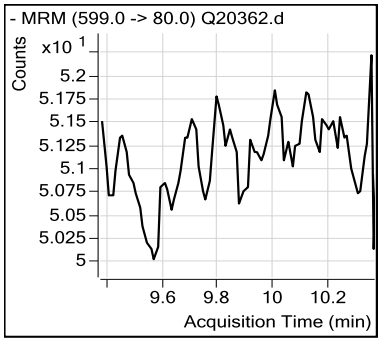
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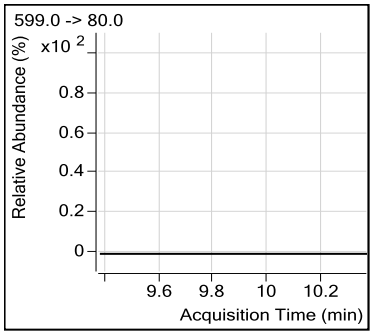


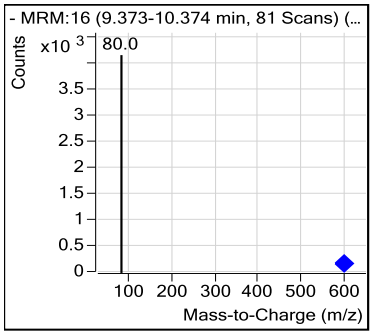




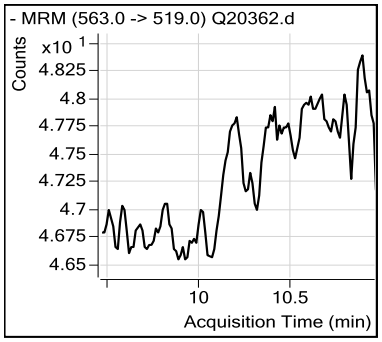
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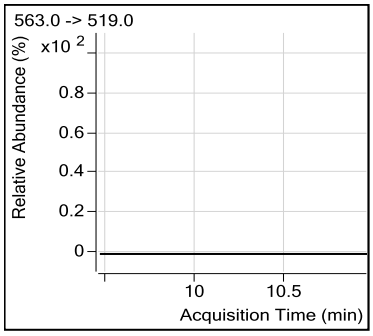


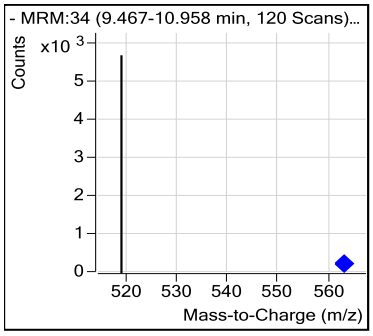




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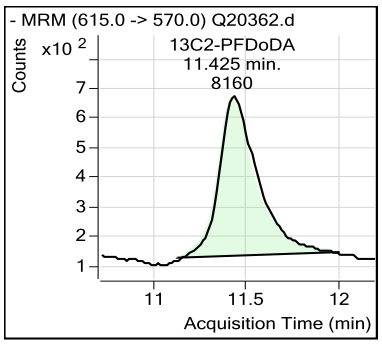


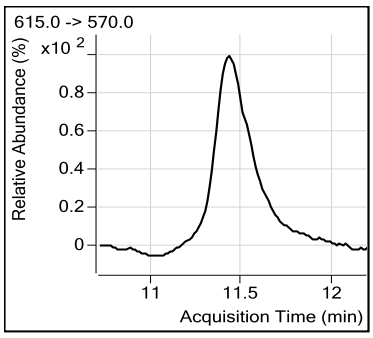


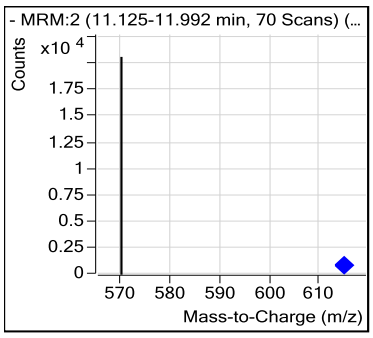


Perfluorinated Compounds by LC/MS/MS.

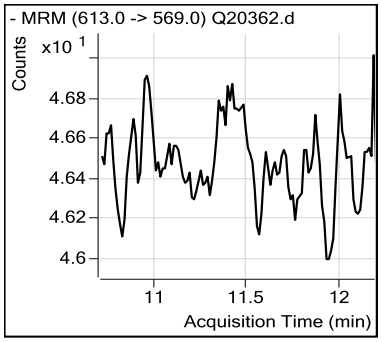
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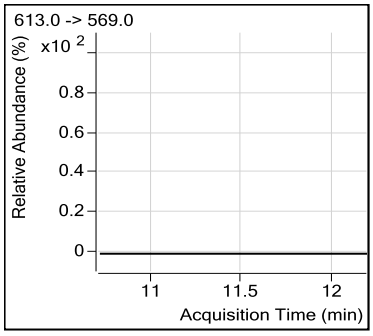


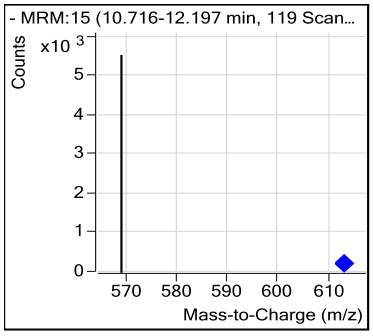




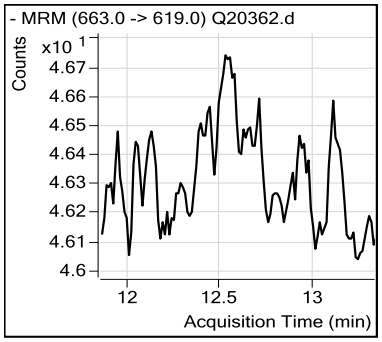
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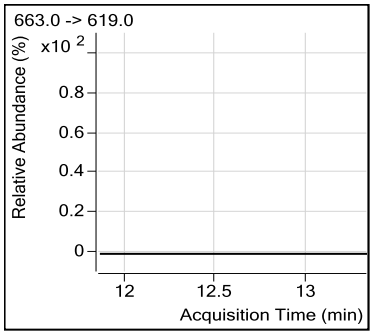


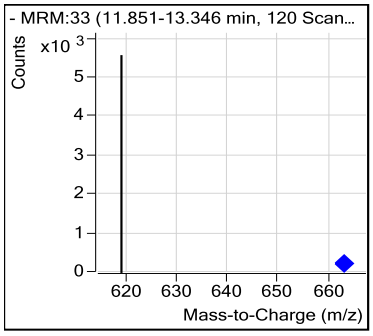




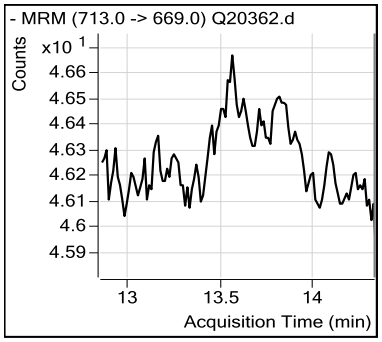
PFTrDA

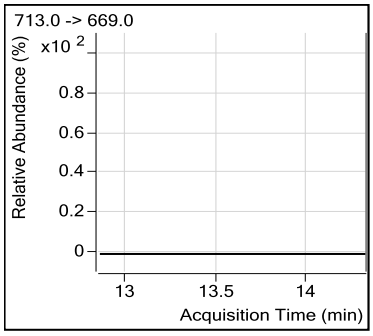


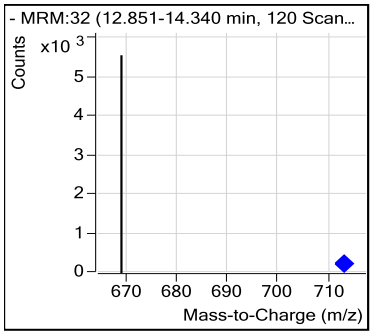




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-9	**Method:**	EPA 537 MOD
Lab FileID:	Q20362.D	**Analyst approved:**	04/14/16 16:28 Nancy Saunders
Injection Time:	04/14/16 12:59	**Supervisor approved:**	04/14/16 17:18 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.88	Split peak
Perfluorooctanoic acid	335-67-1		6.63	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.29	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger
04/19/16 17:29

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20334.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 22:09
Sample Name	:	FA32826-10
Vial	:	Vial 26
Sample Info	:	OP59984,SQ608,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

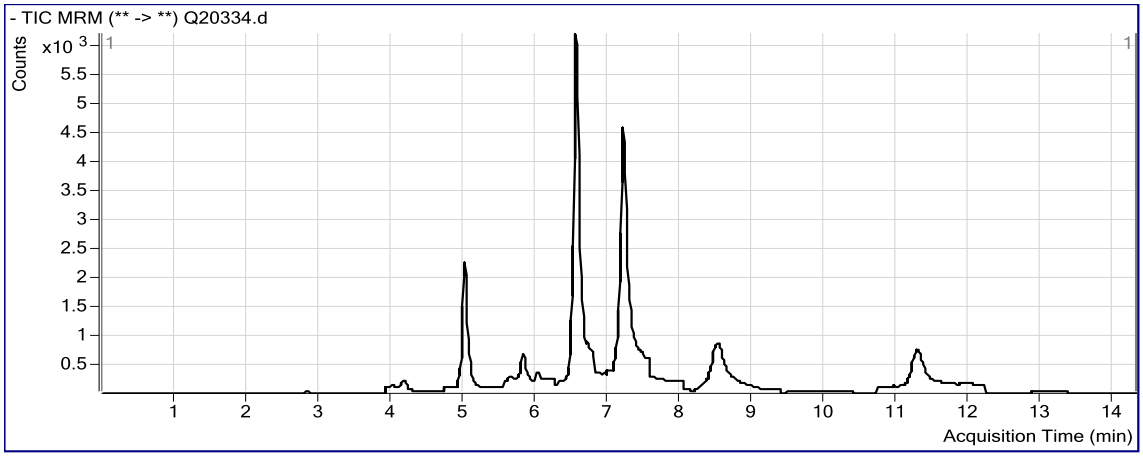
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.550	415.0 -> 370.0	31911	20.000	µg/L		0.013
d3-MeFOSAA	7.186	573.0 -> 419.0	12565	40.000	µg/L		0.000
13C4-PFOS	7.202	503.0 -> 80.0	17777	20.000	µg/L		0.013
13C2-PFDoDA	11.263	615.0 -> 570.0	10176	20.000	µg/L		-0.050
System Monitoring Compounds							
13C2-PFHxA	5.004	315.0 -> 270.0	9150	22.28	µg/L		0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 111.39%				
d5-EtFOSAA	7.296	589.0 -> 419.0	292	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.497	515.0 -> 470.0	12075	12.31	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 61.54%				
Target Compounds							**Qvalue**
PFBS	4.153	299.0 -> 80.0	457	1.522	µg/L		90
PFHxA	5.008	313.0 -> 269.0	2162	5.275	µg/L		99
PFHxS	5.818	399.0 -> 80.0	1680	3.210	µg/L	m	84
PFHpA	5.823	363.0 -> 319.0	353	0.463	µg/L	#	67
PFOA	6.552	413.0 -> 369.0	658	0.443	µg/L		83
MeFOSAA	7.188	570.0 -> 419.0	284	0.000	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	357	0.000	µg/L		100
PFOS	7.404	499.0 -> 80.0	0	0.000	µg/L	m	1

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

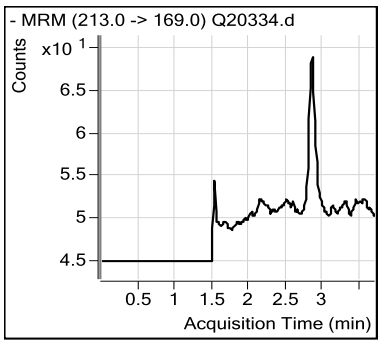
7.1.16
7

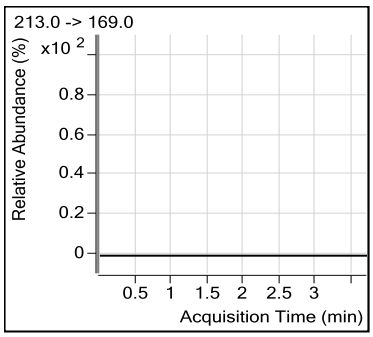
Perfluorinated Compounds by LC/MS/MS.

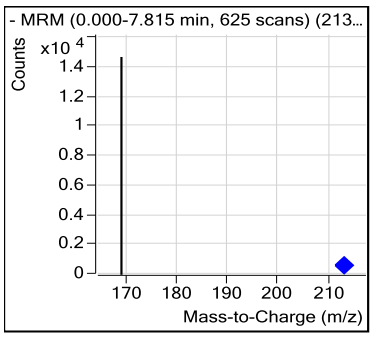
Data File	:	Q20334.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 22:09
Sample Name	:	FA32826-10
Vial	:	Vial 26
Sample Info	:	OP59984,SQ608,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



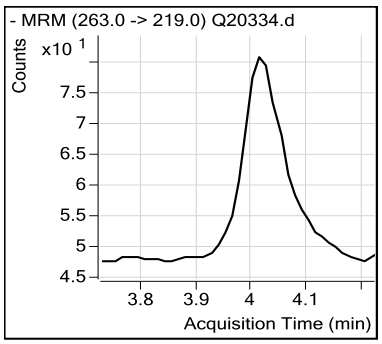
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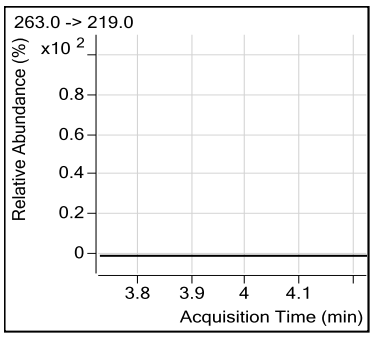


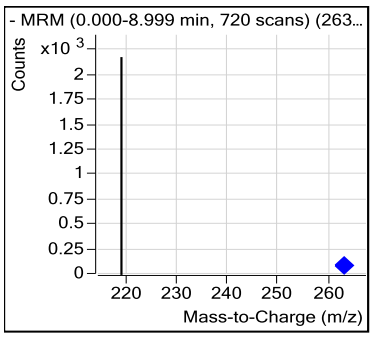




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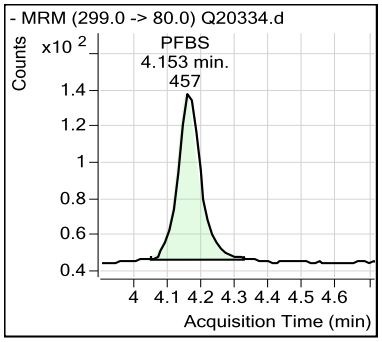


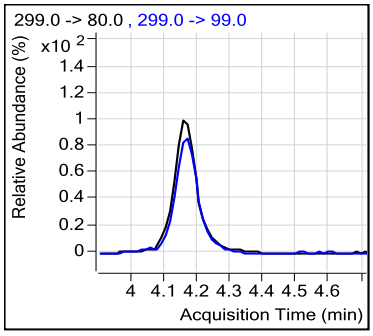


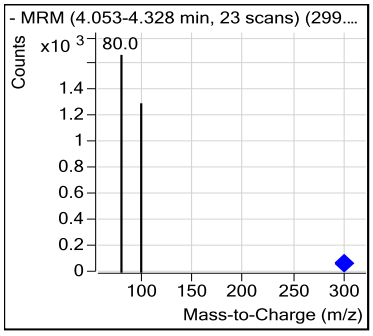


Perfluorinated Compounds by LC/MS/MS.

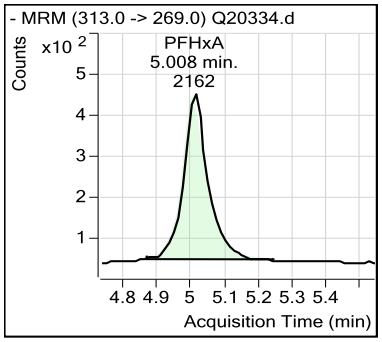
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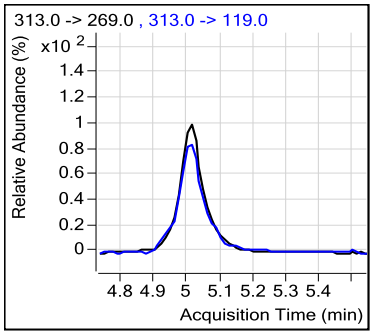


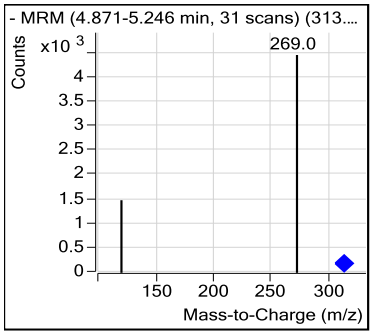




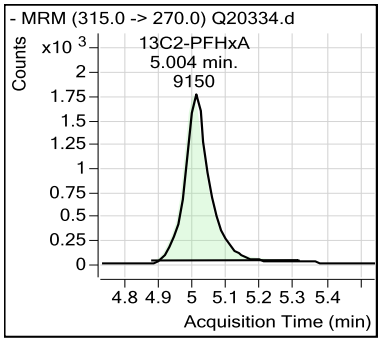
PFHxA

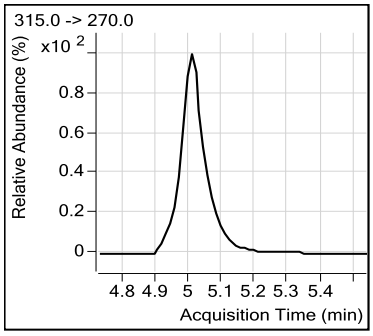


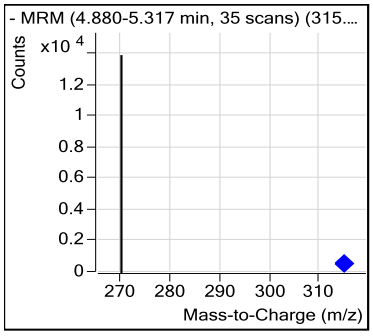




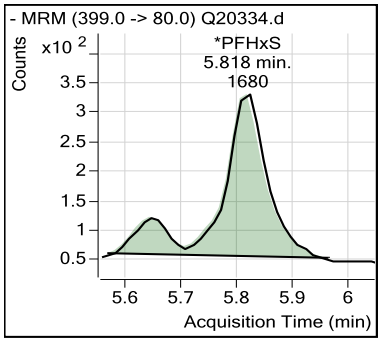
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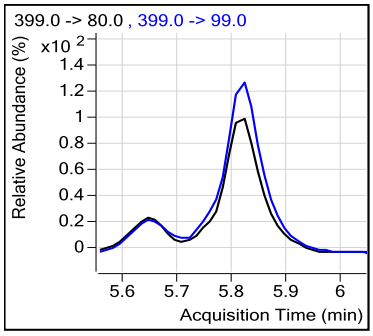


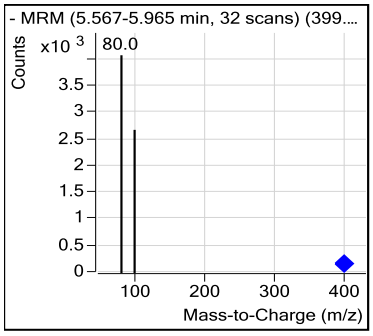




PFHxS





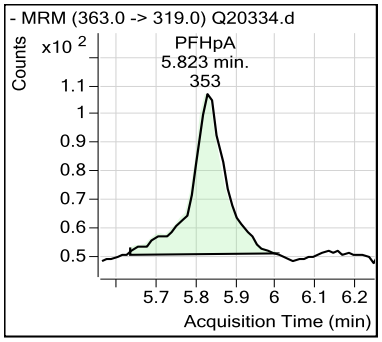


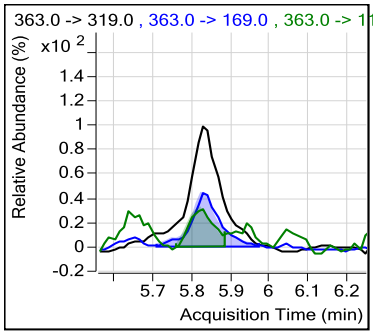
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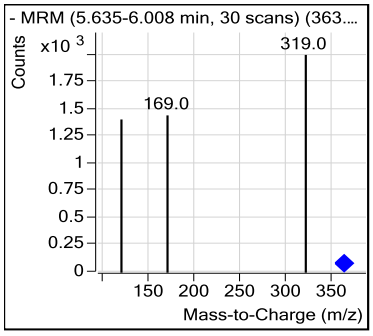
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Perfluorinated Compounds by LC/MS/MS.

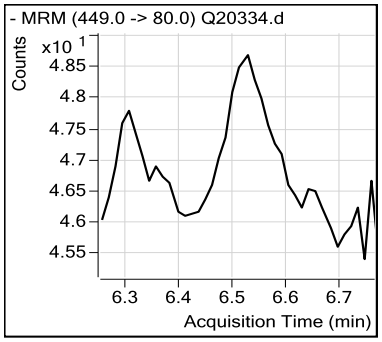
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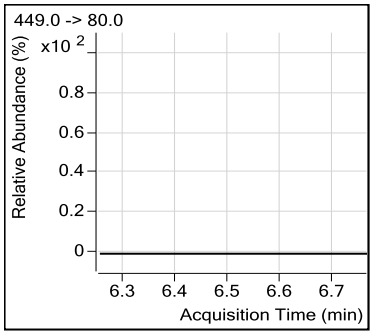


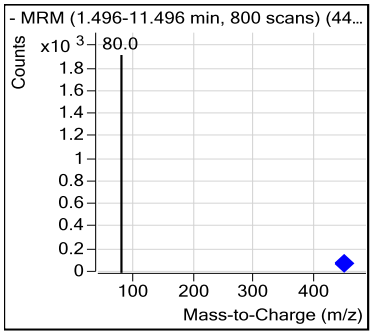




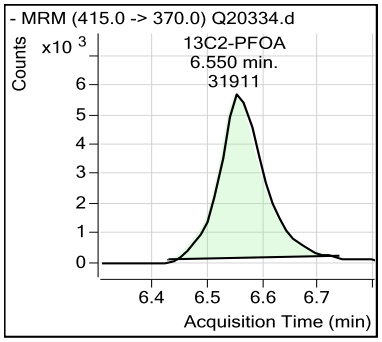
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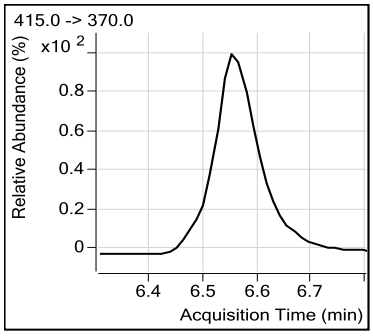


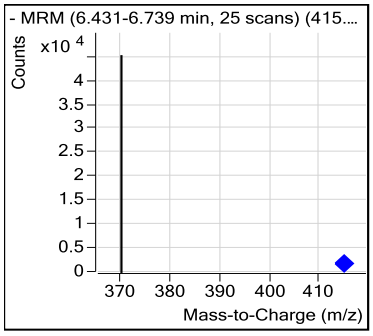




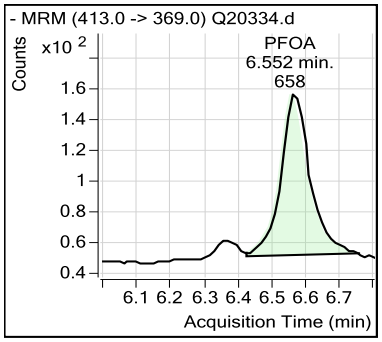
13C2-PFOA

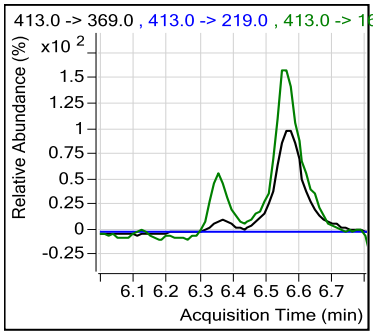


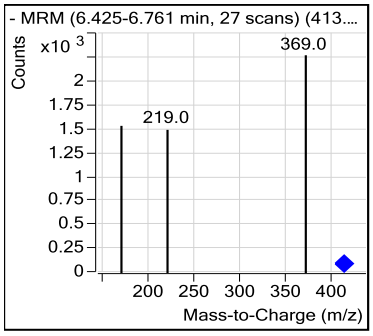




PFOA

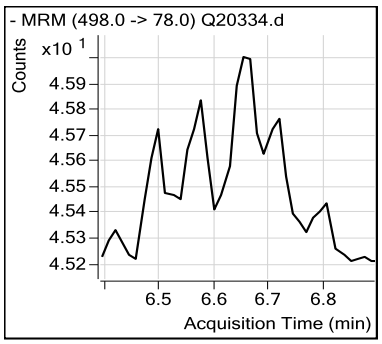


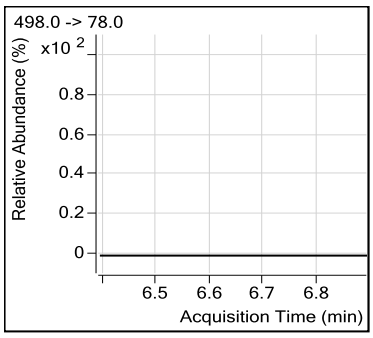


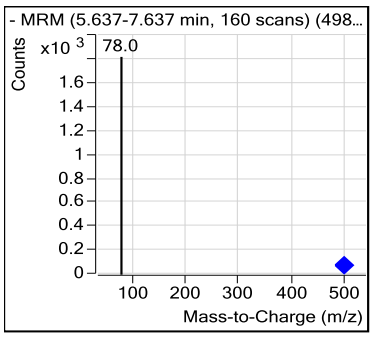


Perfluorinated Compounds by LC/MS/MS.

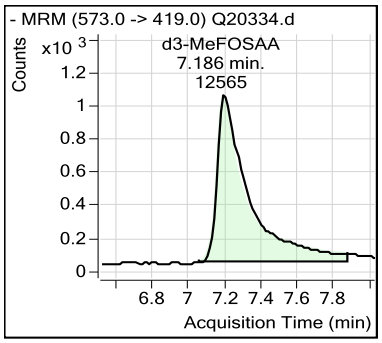
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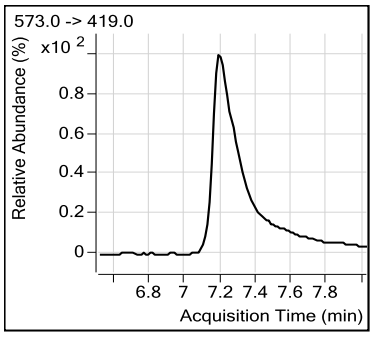


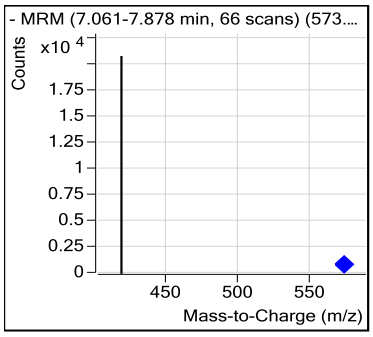




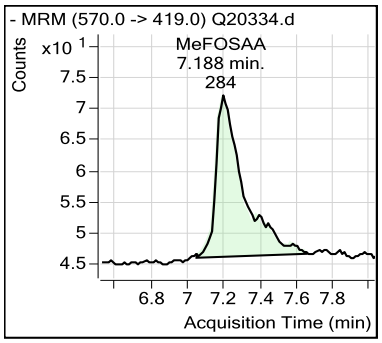
d3-MeFOSAA

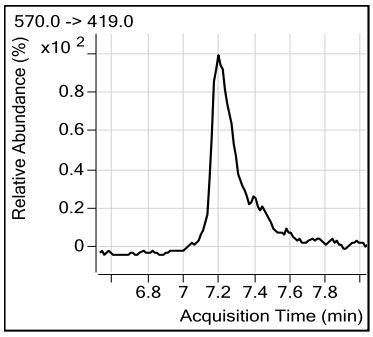


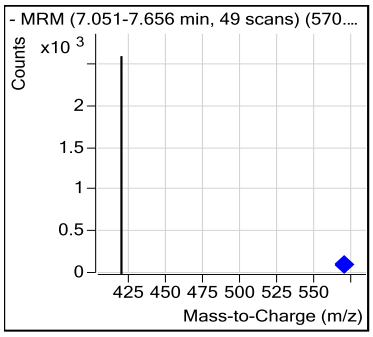




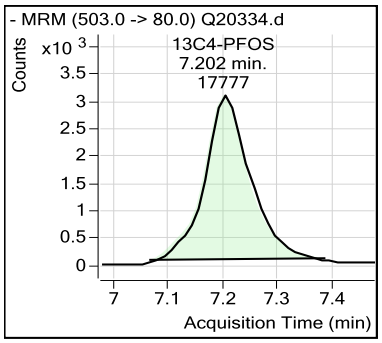
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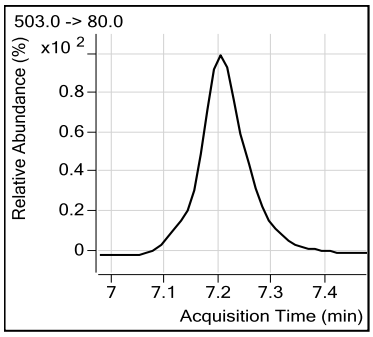


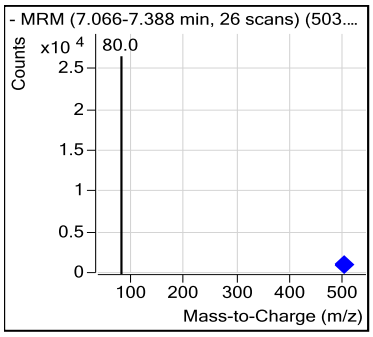




13C4-PFOS

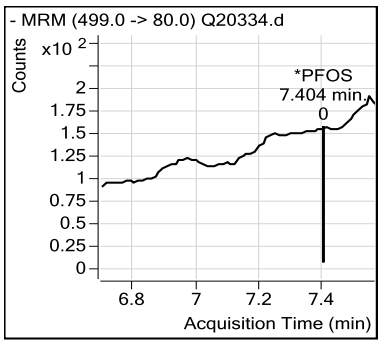


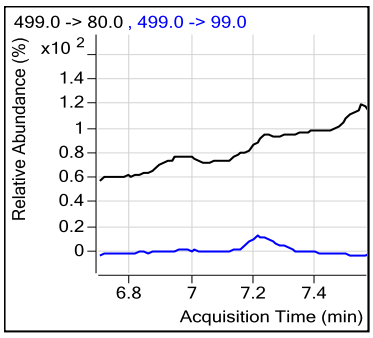


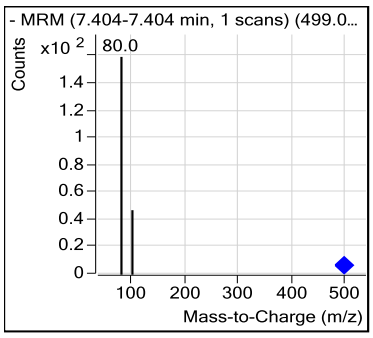


Perfluorinated Compounds by LC/MS/MS.

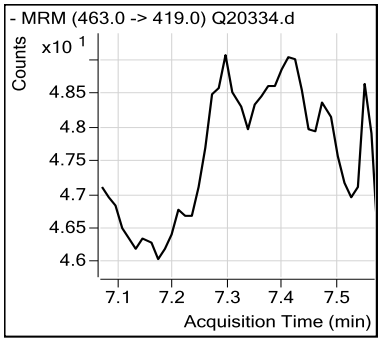
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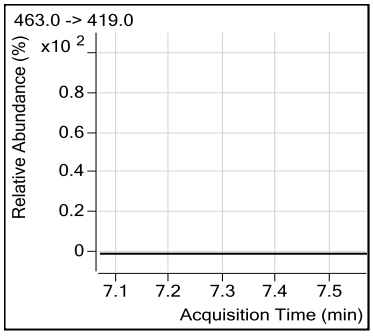


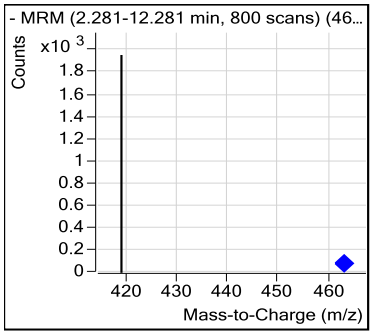




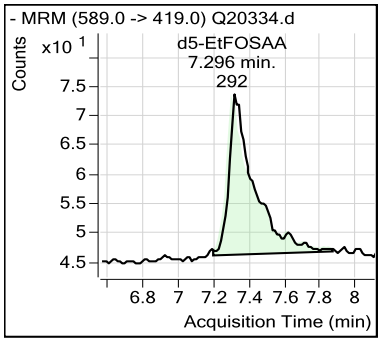
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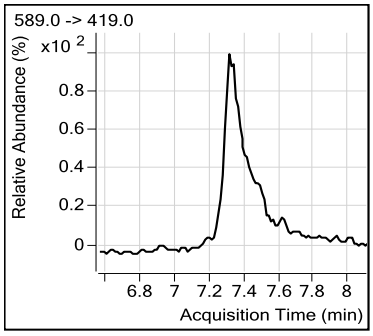


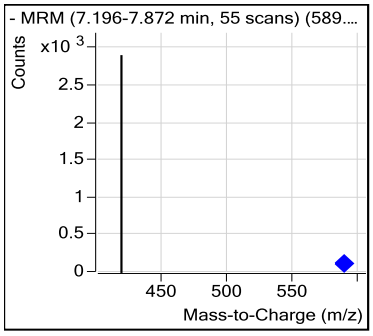




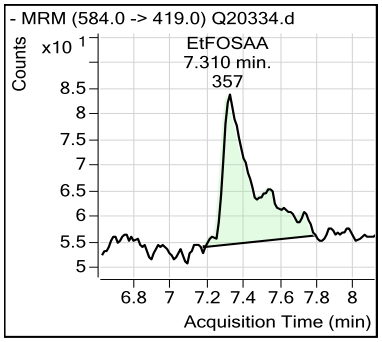
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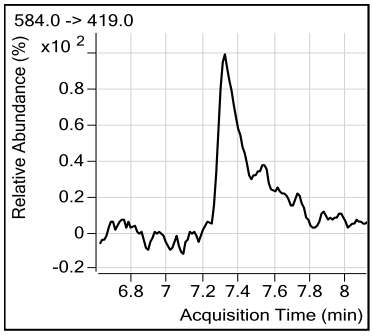


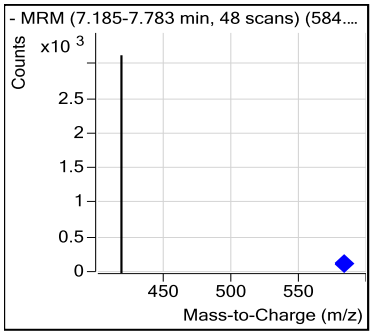




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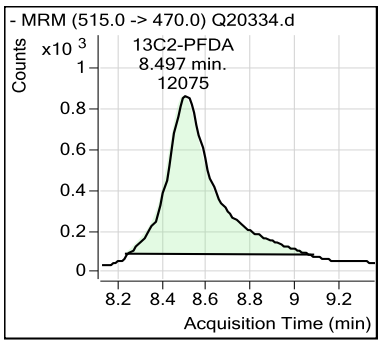


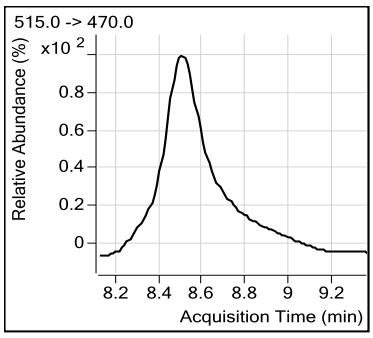


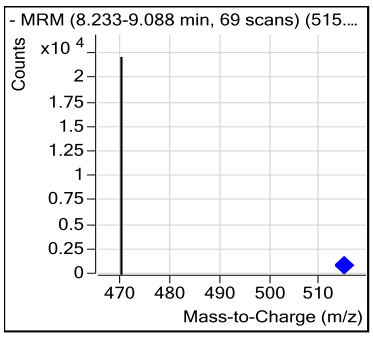


Perfluorinated Compounds by LC/MS/MS.

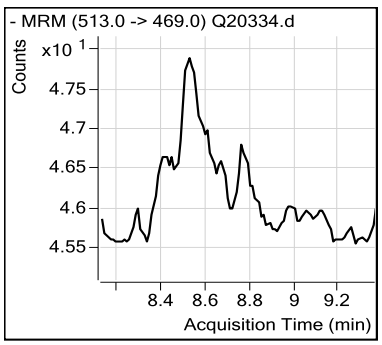
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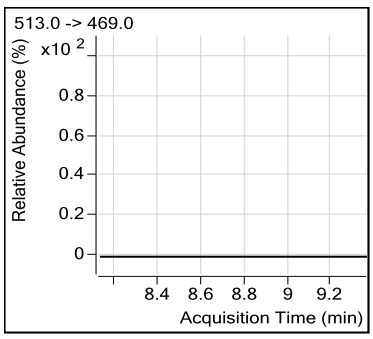


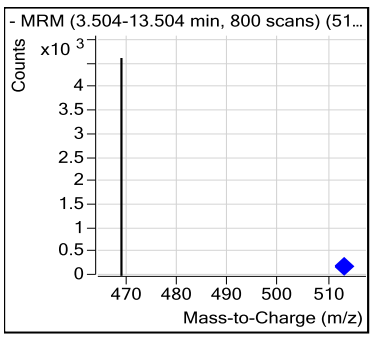




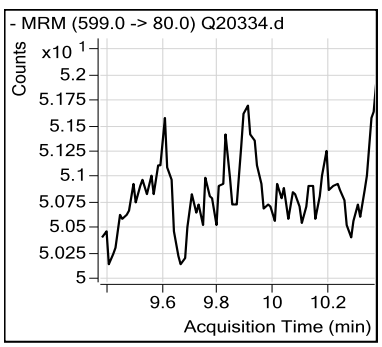
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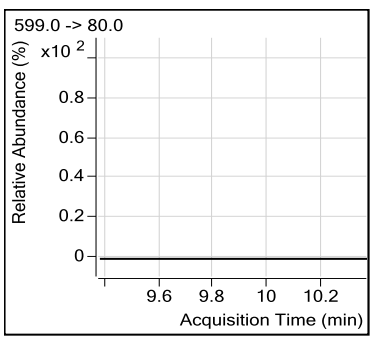


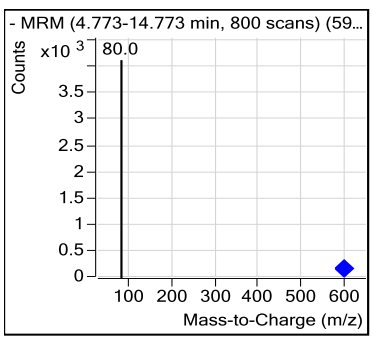




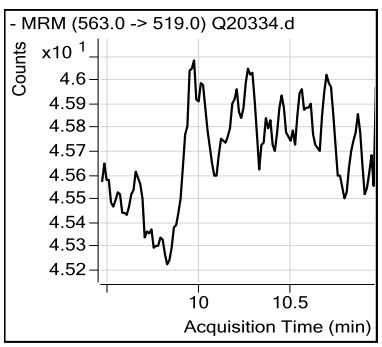
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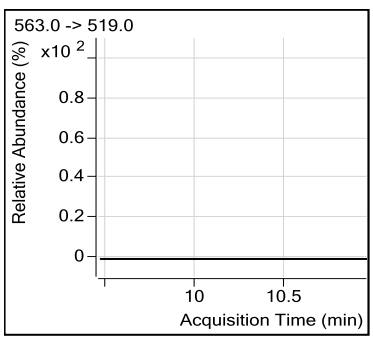


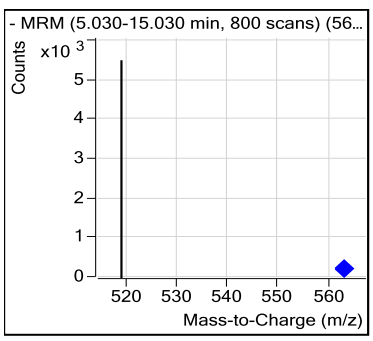




PFUnDA





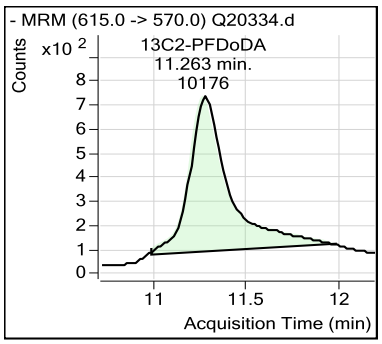


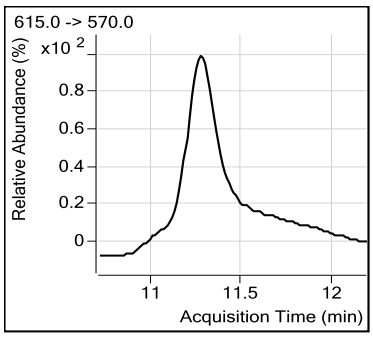
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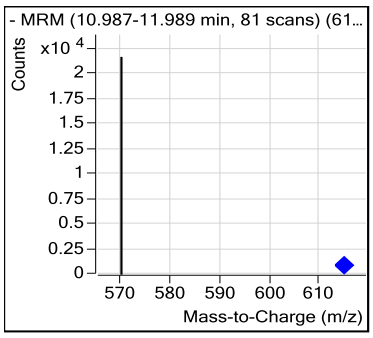
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Perfluorinated Compounds by LC/MS/MS.

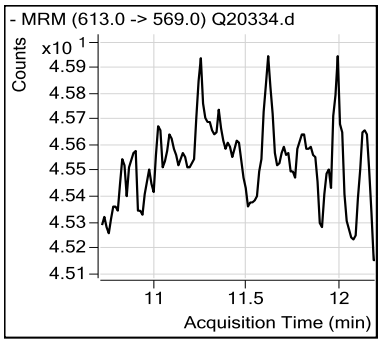
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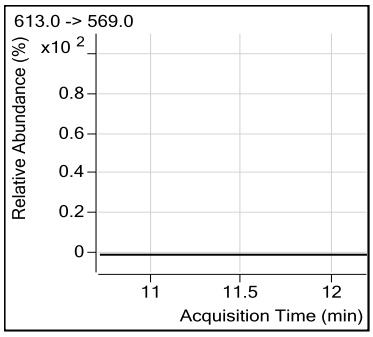


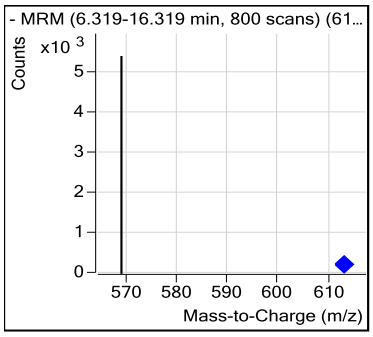




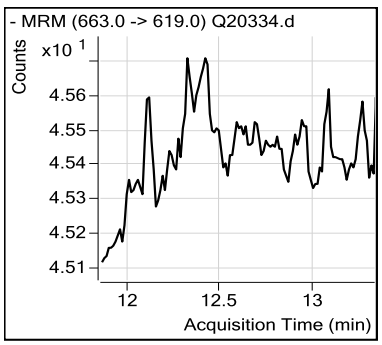
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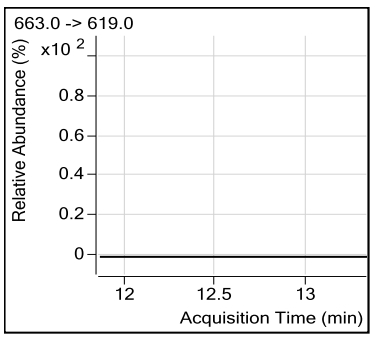


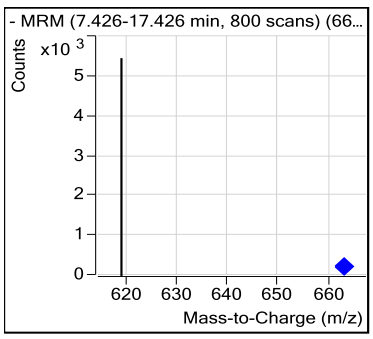




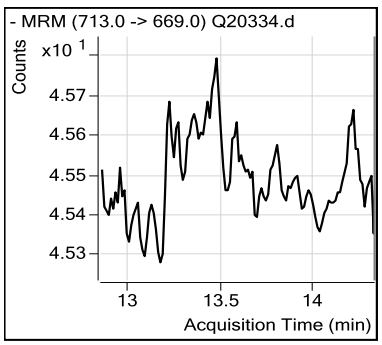
PFTrDA

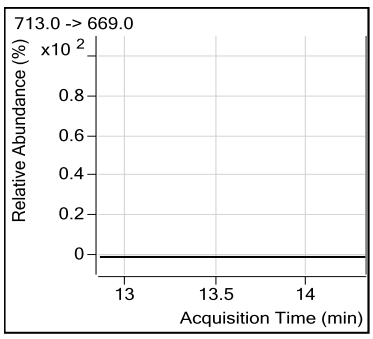


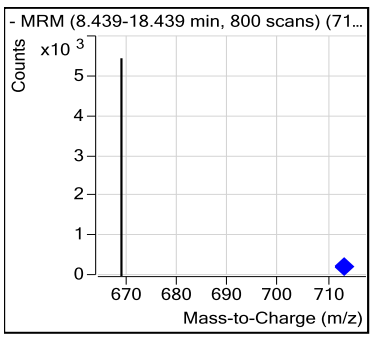




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-10	**Method:**	EPA 537 MOD
Lab FileID:	Q20334.D	**Analyst approved:**	04/19/16 14:30 Nancy Saunders
Injection Time:	04/13/16 22:09	**Supervisor approved:**	04/19/16 17:29 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.82	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Mike Eger 04/19/16 17:29

Perfluorinated Compounds by LC/MS/MS.

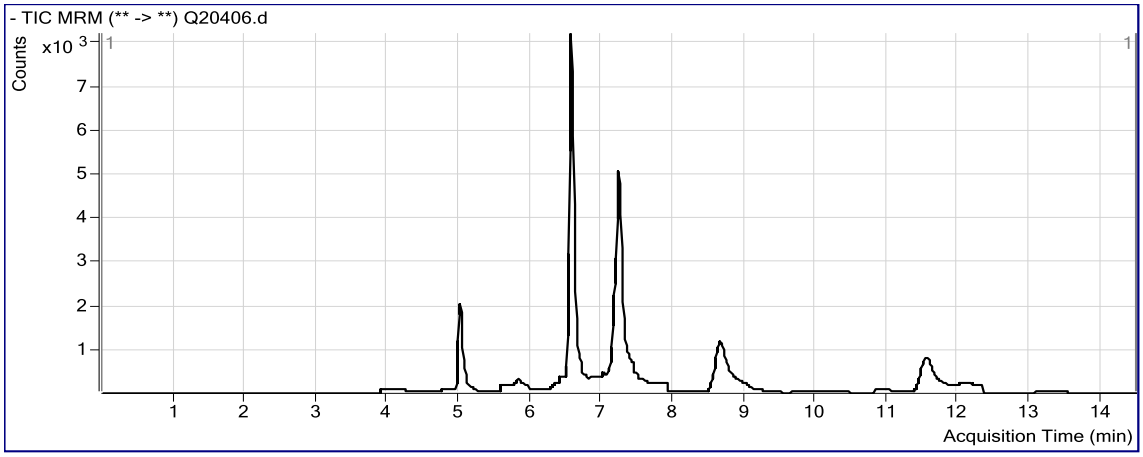
Data File	:	Q20406.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-18 11:58
Sample Name	:	FA32826-10cfs
Vial	:	Vial 5
Sample Info	:	OP60102,SQ610,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ611.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.564	415.0 -> 370.0	33899	20.000	µg/L		0.026
d3-MeFOSAA	7.161	573.0 -> 419.0	11695	40.000	µg/L		-0.025
13C4-PFOS	7.227	503.0 -> 80.0	17828	20.000	µg/L		0.037
13C2-PFDoDA	11.525	615.0 -> 570.0	10460	20.000	µg/L		0.213
System Monitoring Compounds							
13C2-PFHxA	5.004	315.0 -> 270.0	8367	19.18	µg/L		0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 95.89%				
d5-EtFOSAA	7.270	589.0 -> 419.0	441	0.00	µg/L		-0.025
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.647	515.0 -> 470.0	14712	14.12	µg/L		0.150
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 70.58%				
Target Compounds							**Qvalue**
PFBA	2.164	213.0 -> 169.0	0	0.000	µg/L	m	1
PFHxS	5.818	399.0 -> 80.0	372	0.710	µg/L		87
PFOA	6.565	413.0 -> 369.0	1494	0.947	µg/L		83
MeFOSAA	7.162	570.0 -> 419.0	856	0.000	µg/L		100
PFOS	7.228	499.0 -> 80.0	1083	1.176	µg/L	m	77
EtFOSAA	7.272	584.0 -> 419.0	992	0.000	µg/L		100

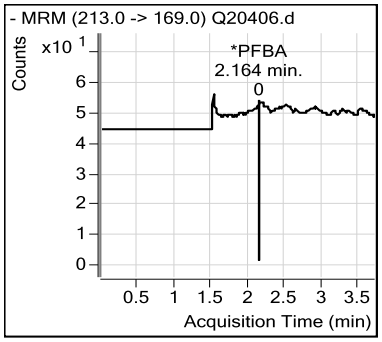
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

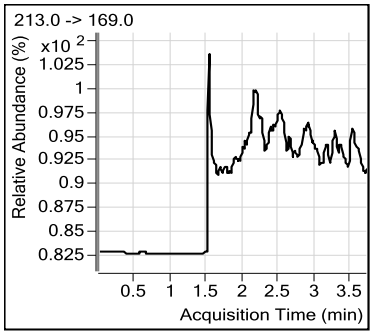
Perfluorinated Compounds by LC/MS/MS.

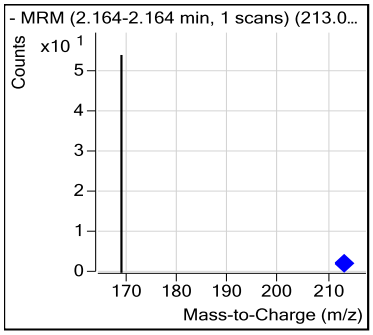
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Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-18 11:58
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Vial	:	Vial 5
Sample Info	:	OP60102,SQ610,130,,,1.0,1,WATER
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Last Calib Update	:	2016-04-13 09:28



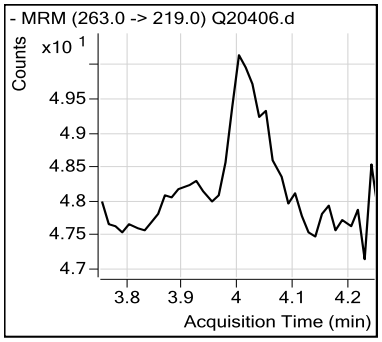
PFBA

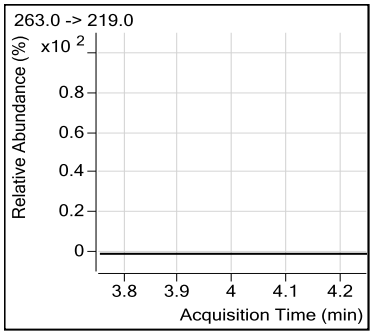


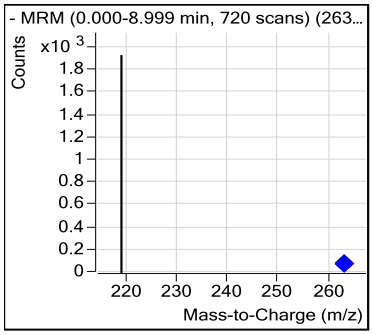




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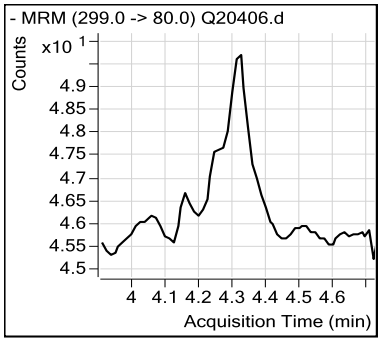


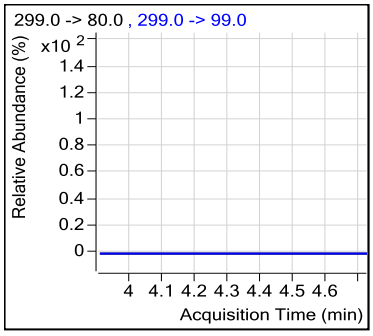


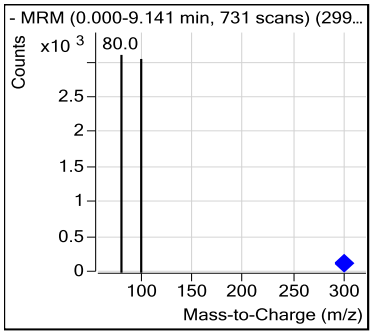


Perfluorinated Compounds by LC/MS/MS.

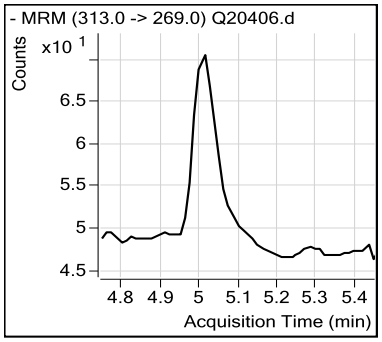
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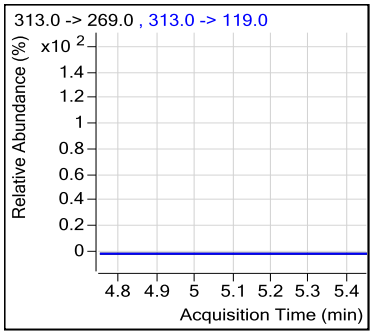


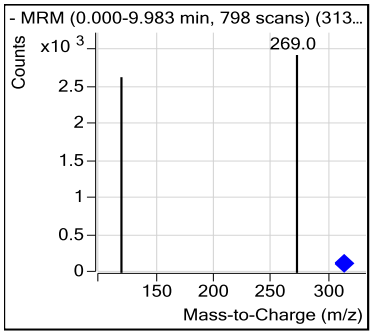




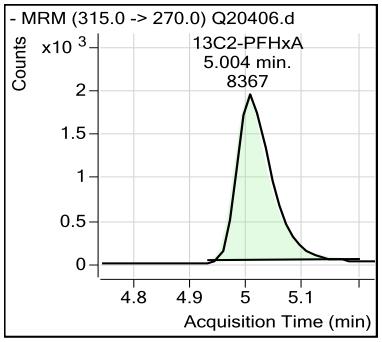
PFHxA

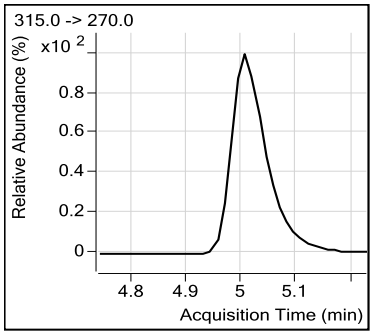


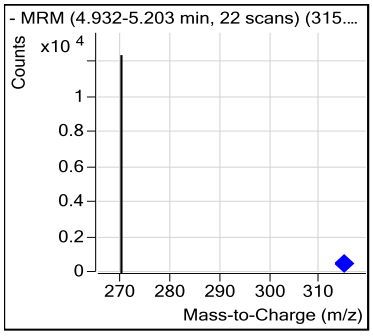




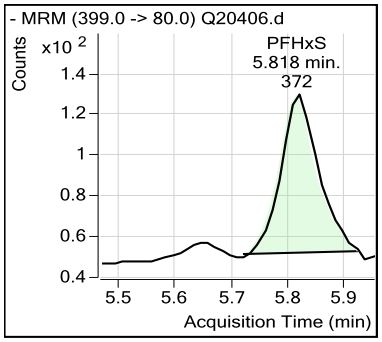
13C2-PFHxA

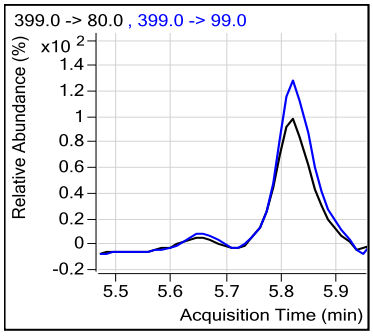


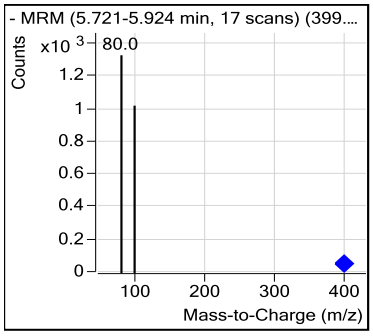




PFHxS

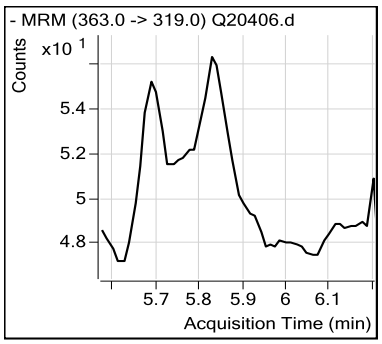


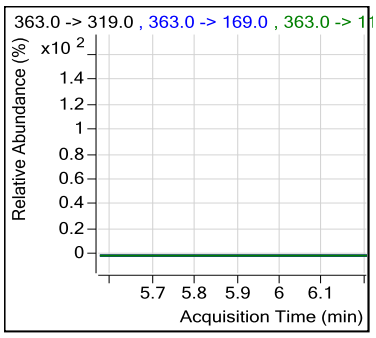


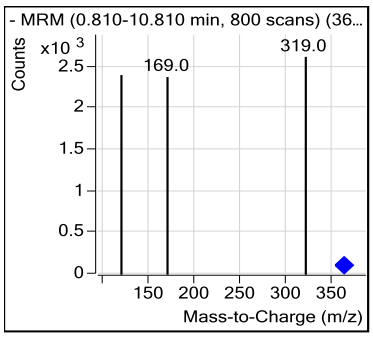


Perfluorinated Compounds by LC/MS/MS.

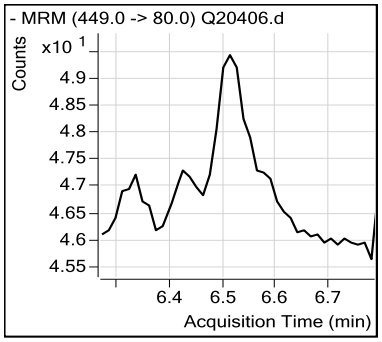
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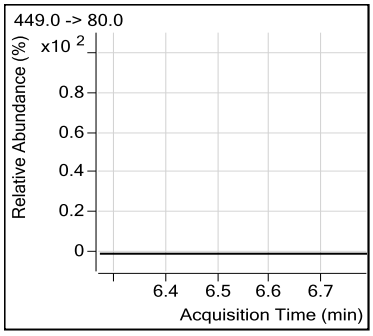


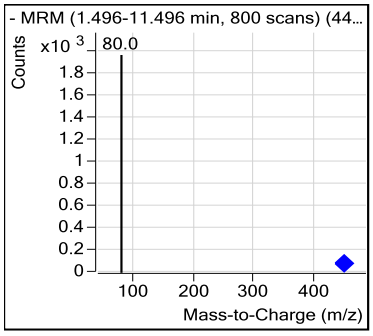




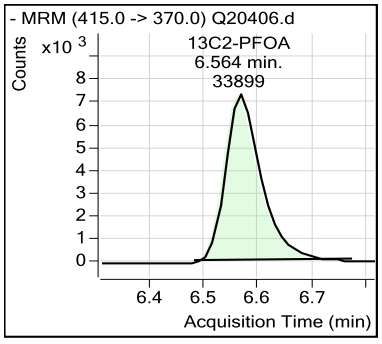
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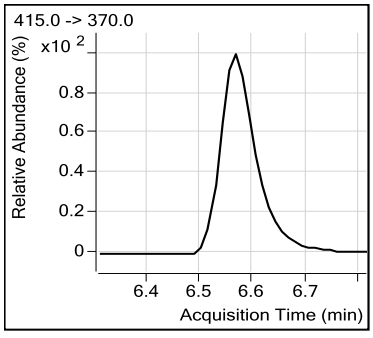


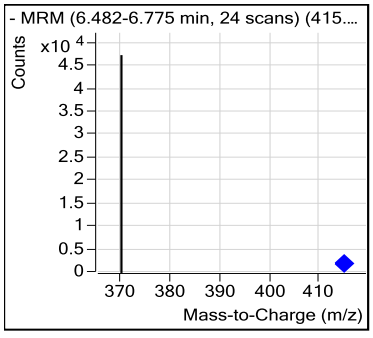




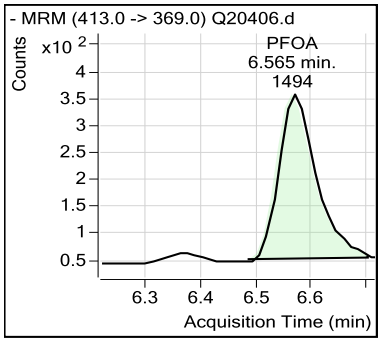
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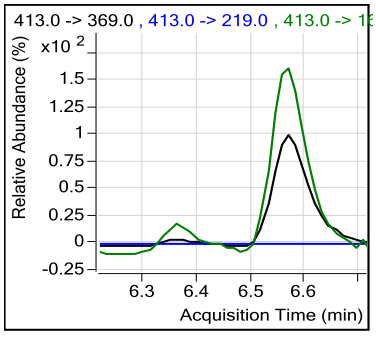


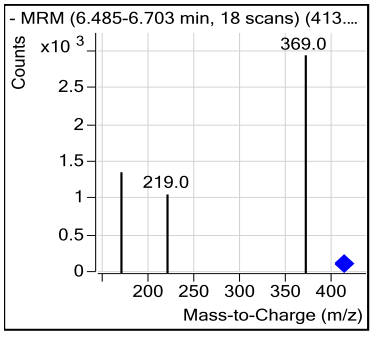




PFOA





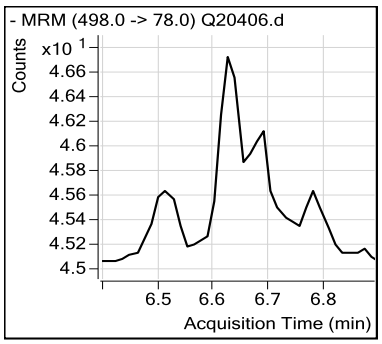


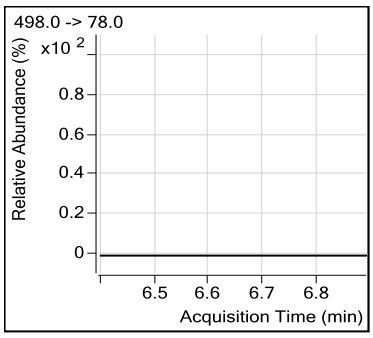
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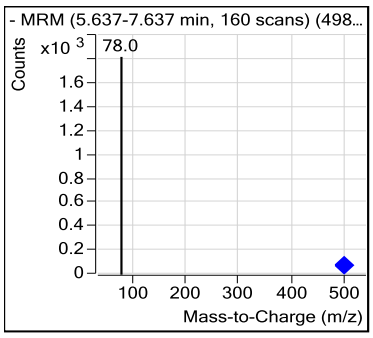
7

Perfluorinated Compounds by LC/MS/MS.

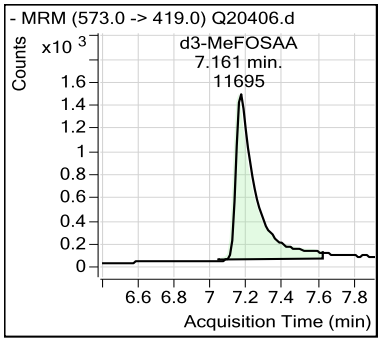
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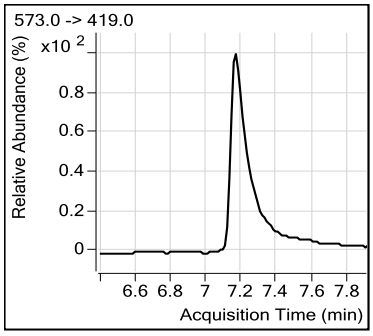


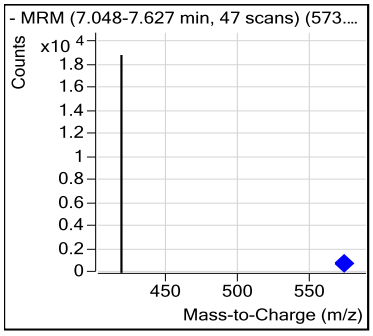




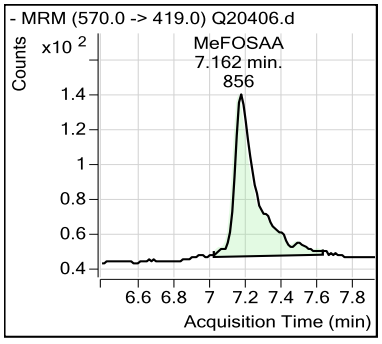
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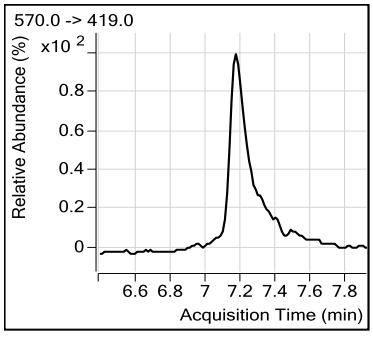


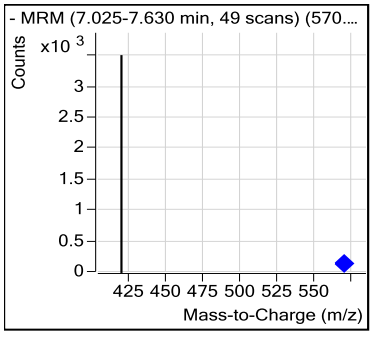




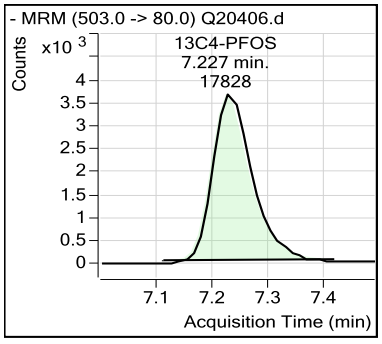
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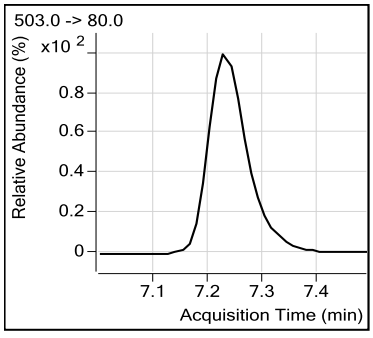


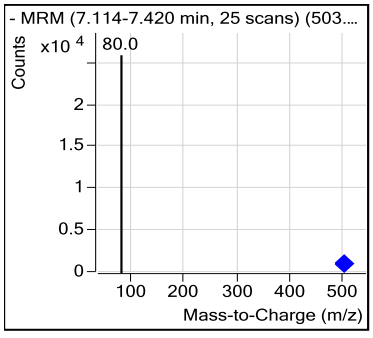




13C4-PFOS

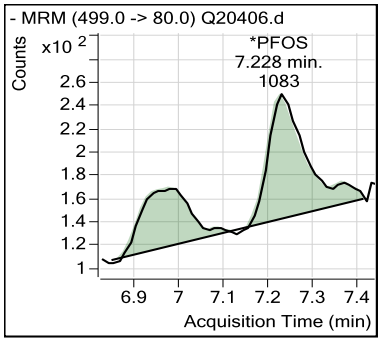


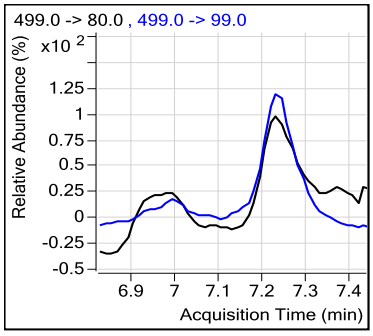


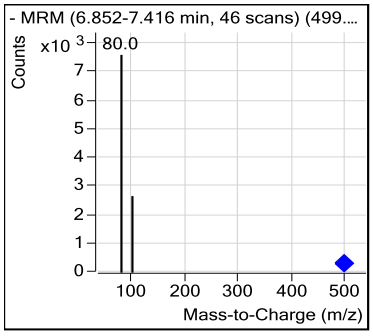


Perfluorinated Compounds by LC/MS/MS.

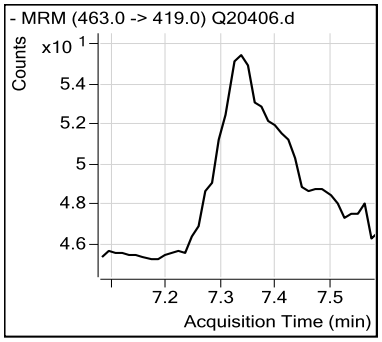
PFOS

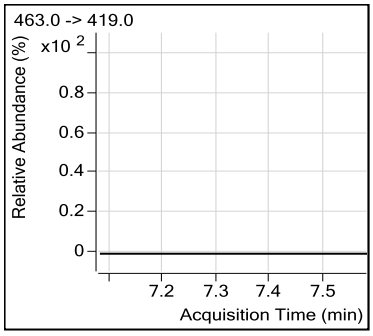


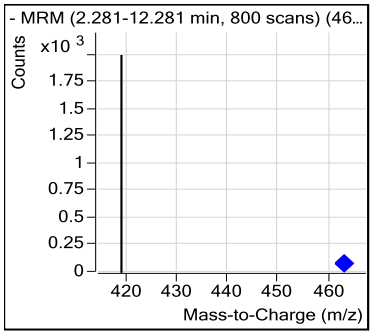




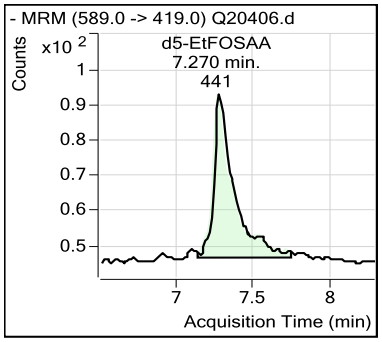
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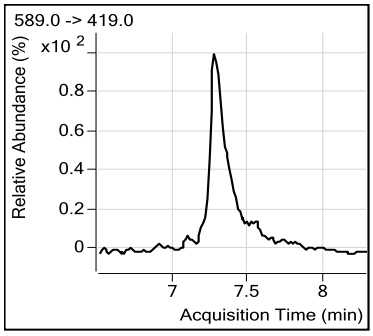


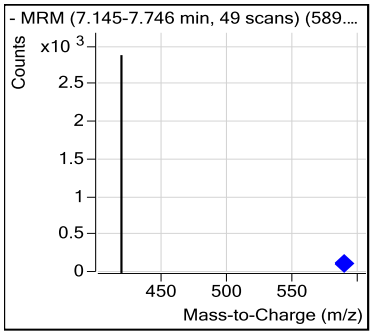




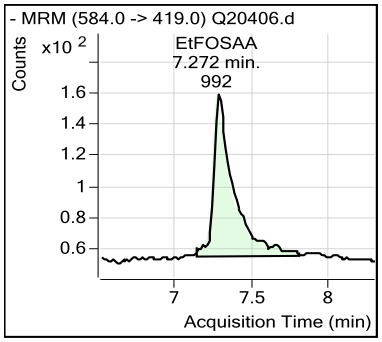
d5-EtFOSAA

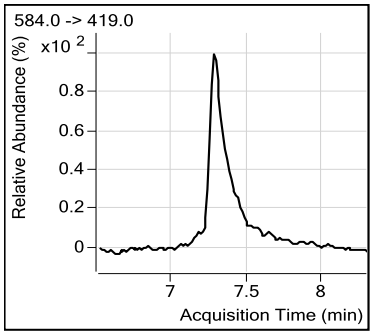


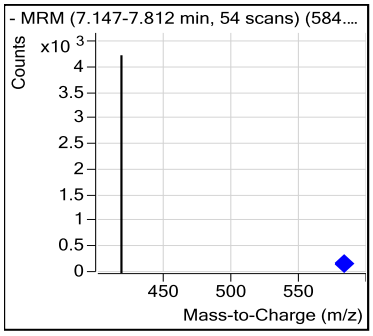




EtFOSAA

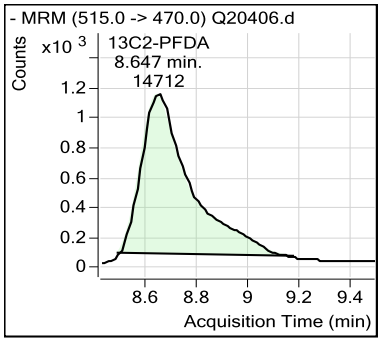


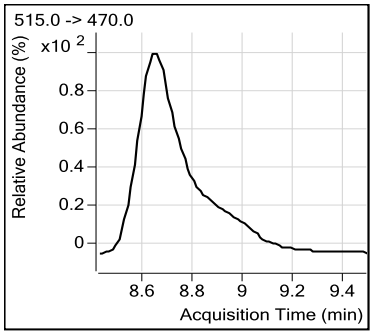


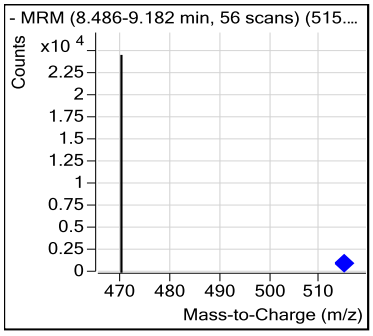


Perfluorinated Compounds by LC/MS/MS.

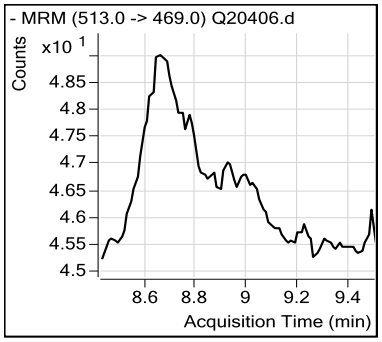
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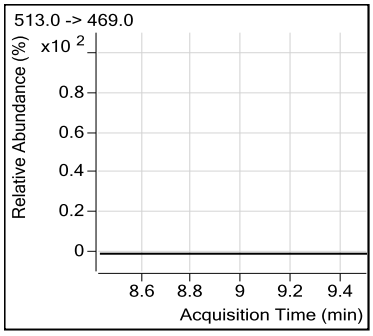


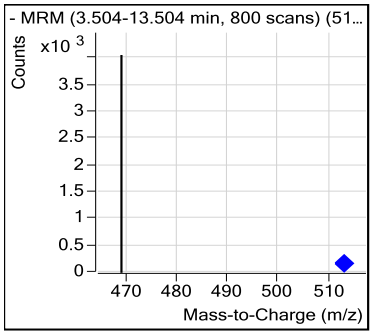




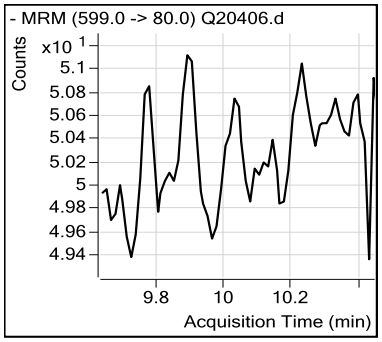
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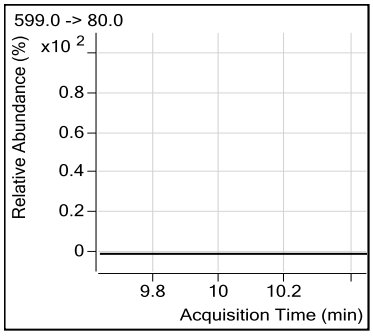


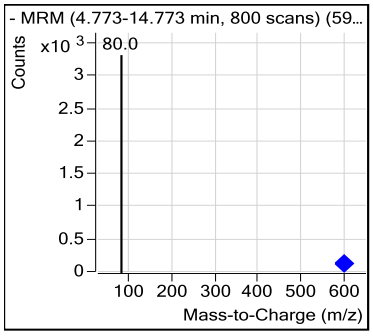




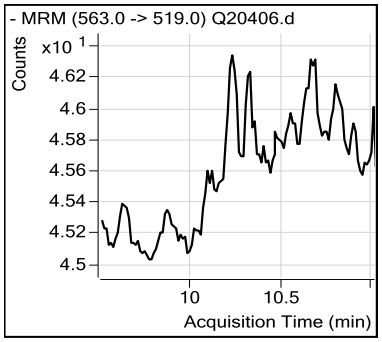
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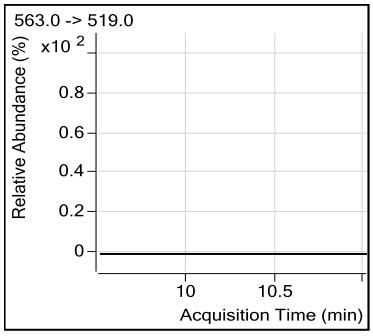


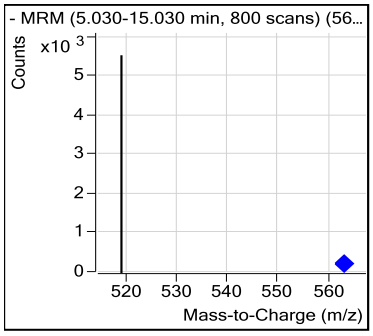




PFUnDA





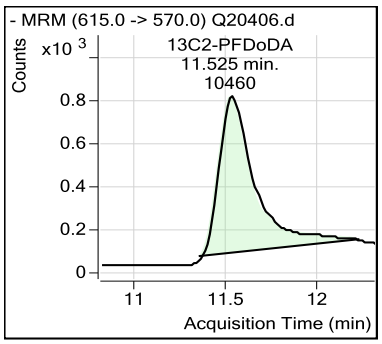


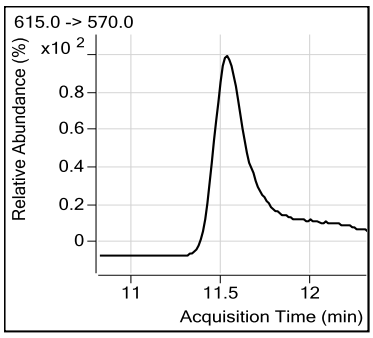
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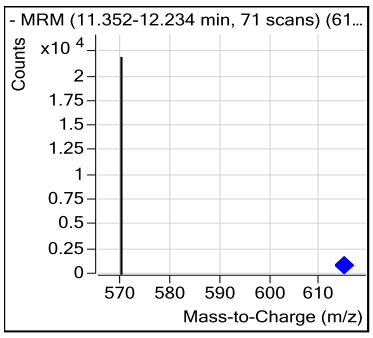
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Perfluorinated Compounds by LC/MS/MS.

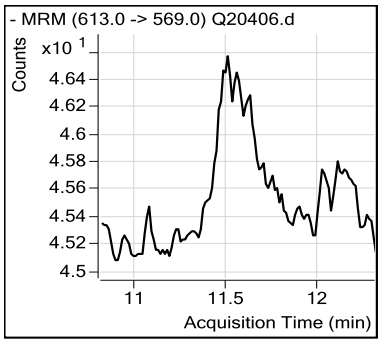
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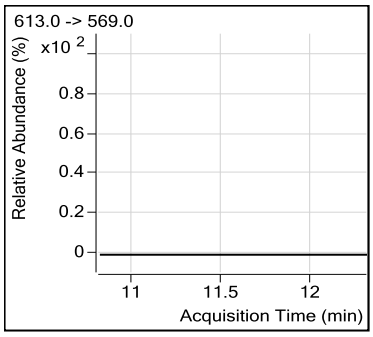


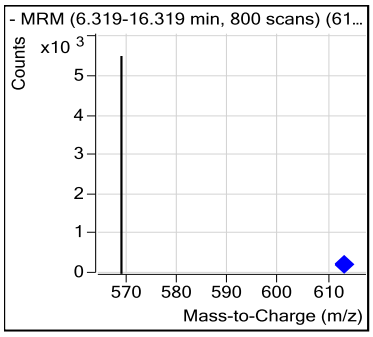




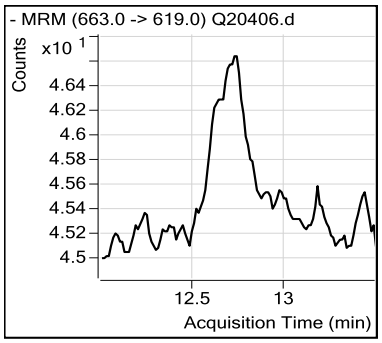
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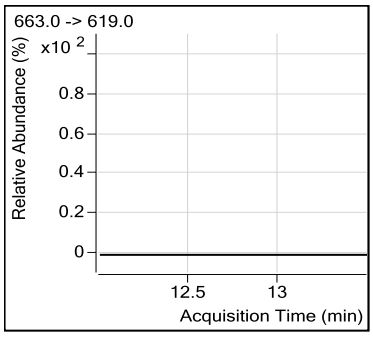


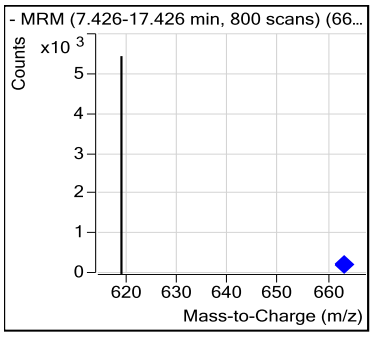




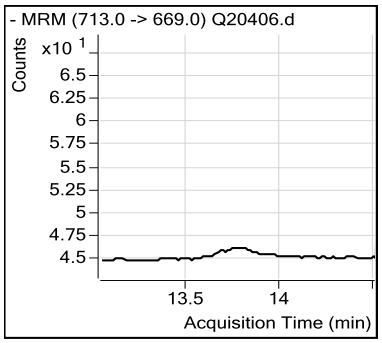
PFTrDA

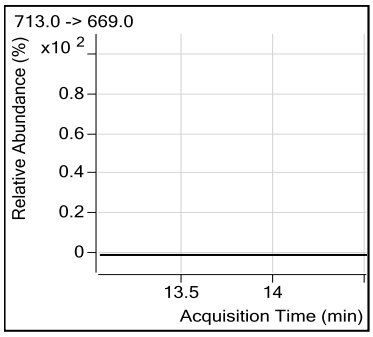


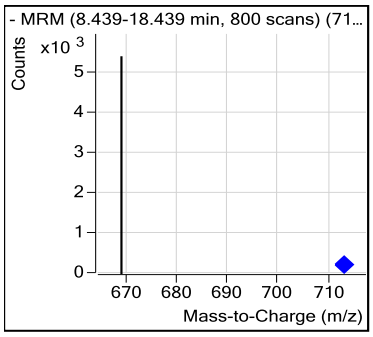




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-10	**Method:**	EPA 537 MOD
Lab FileID:	Q20406.D	**Analyst approved:**	04/19/16 14:30 Nancy Saunders
Injection Time:	04/18/16 11:58	**Supervisor approved:**	04/19/16 17:29 Mike Eger

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorooctanesulfonic acid	1763-23-1		7.23	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:17

Perfluorinated Compounds by LC/MS/MS.

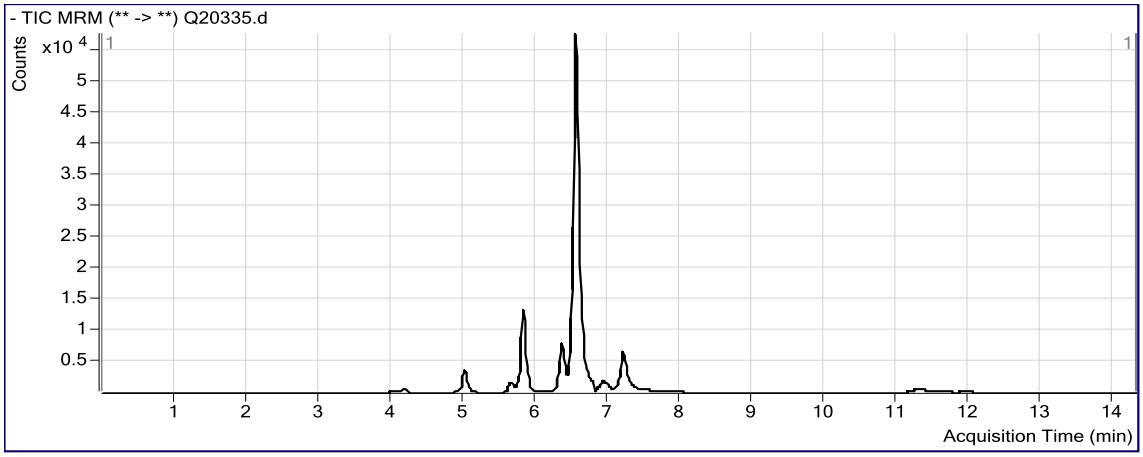
Data File	:	Q20335.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 22:30
Sample Name	:	FA32826-11
Vial	:	Vial 27
Sample Info	:	OP59984,SQ608,130,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.550	415.0 -> 370.0	30200	20.000	µg/L		0.013
d3-MeFOSAA	7.199	573.0 -> 419.0	12254	40.000	µg/L		0.013
13C4-PFOS	7.202	503.0 -> 80.0	16886	20.000	µg/L		0.013
13C2-PFDoDA	11.288	615.0 -> 570.0	10073	20.000	µg/L		-0.025
System Monitoring Compounds							
d5-EtFOSAA	7.308	589.0 -> 419.0	212	0.00	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFPeA	4.024	263.0 -> 219.0	1114	7.959	µg/L		100
PFBS	4.166	299.0 -> 80.0	2232	7.836	µg/L		95
PFHxA	5.008	313.0 -> 269.0	18525	47.768	µg/L		98
PFHxS	5.818	399.0 -> 80.0	39865	80.173	µg/L	m	87
PFHpA	5.823	363.0 -> 319.0	10892	15.115	µg/L	# m	70
PFHpS	6.508	449.0 -> 80.0	528	0.977	µg/L		100
PFOA	6.552	413.0 -> 369.0	270294	192.337	µg/L	# m	74
PFOSA	6.624	498.0 -> 78.0	4	0.006	µg/L		100
MeFOSAA	7.175	570.0 -> 419.0	191	0.000	µg/L		100
PFOS	7.203	499.0 -> 80.0	18150	20.814	µg/L	m	98
EtFOSAA	7.322	584.0 -> 419.0	300	0.000	µg/L		100

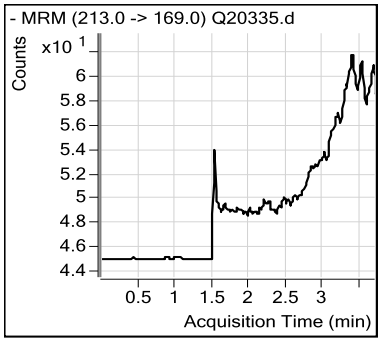
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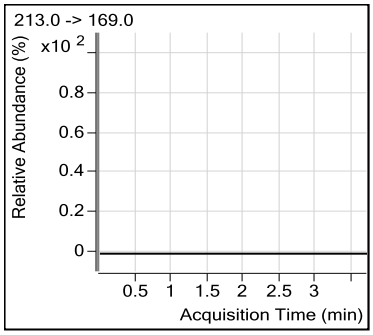
Perfluorinated Compounds by LC/MS/MS.

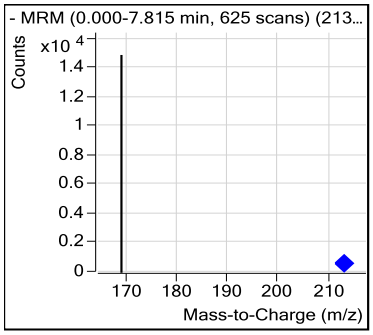
Data File	:	Q20335.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 22:30
Sample Name	:	FA32826-11
Vial	:	Vial 27
Sample Info	:	OP59984,SQ608,130,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



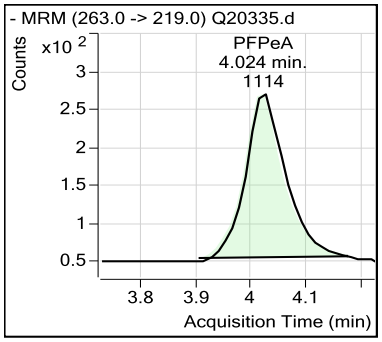
PFBA

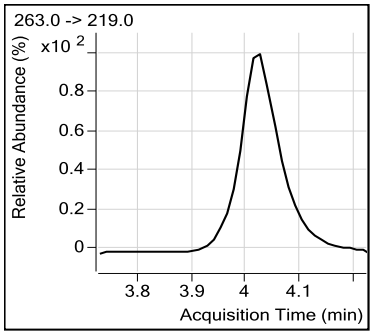


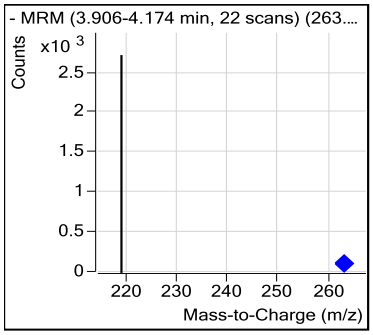




PFPeA

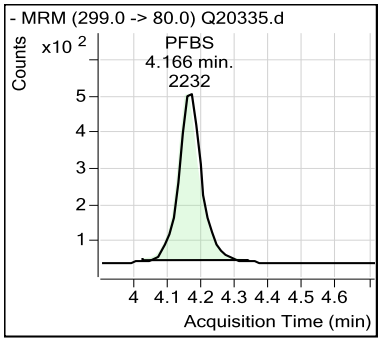


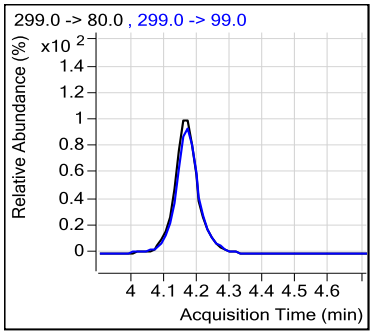


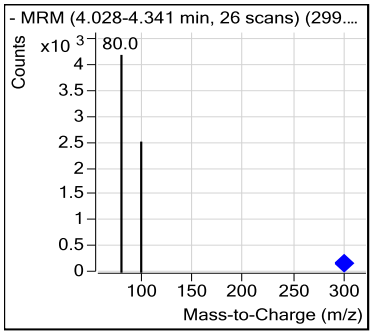


Perfluorinated Compounds by LC/MS/MS.

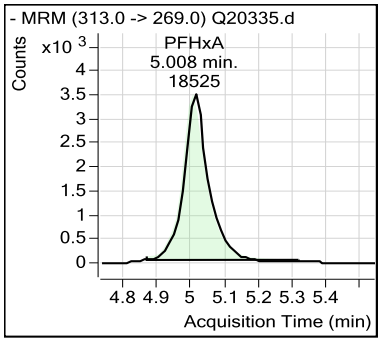
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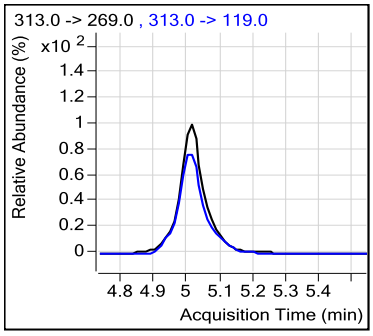


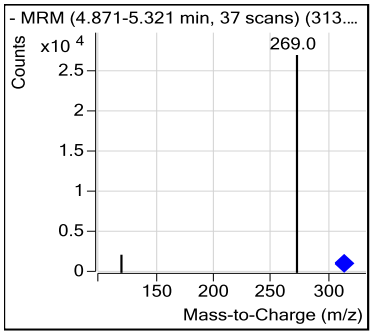




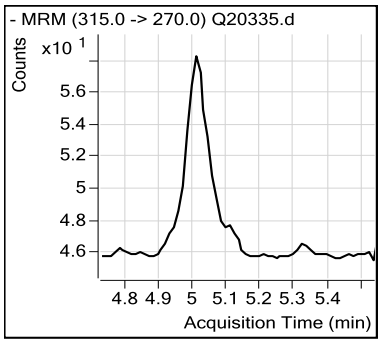
PFHxA

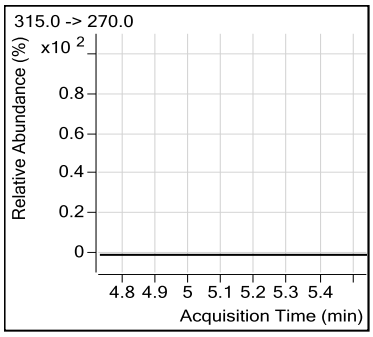


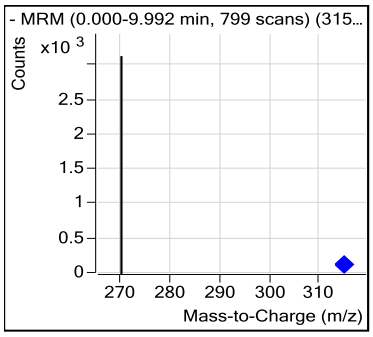




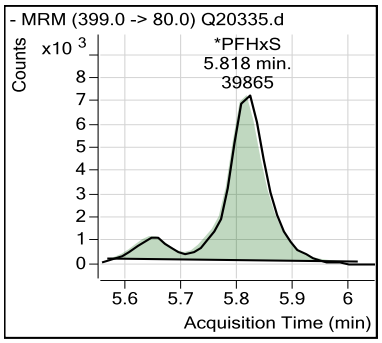
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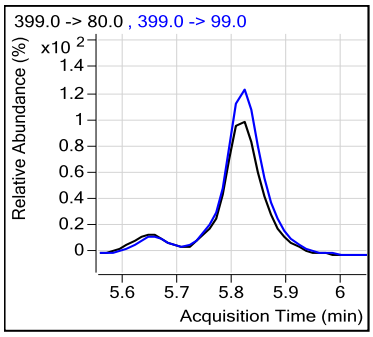


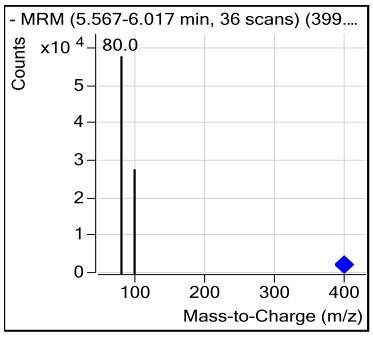




PFHxS





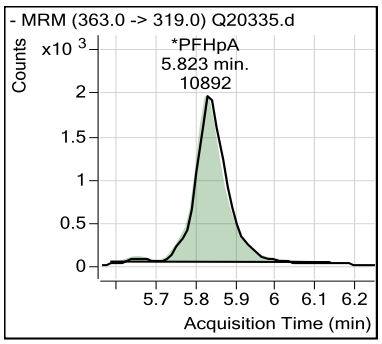


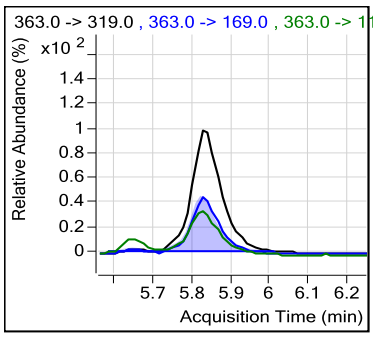
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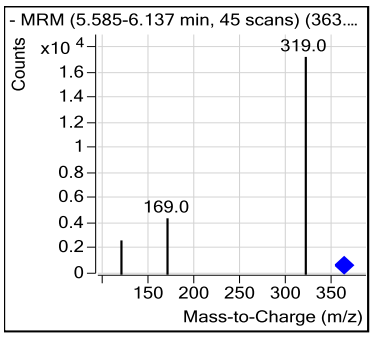
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Perfluorinated Compounds by LC/MS/MS.

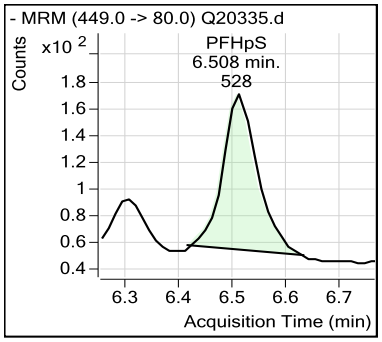
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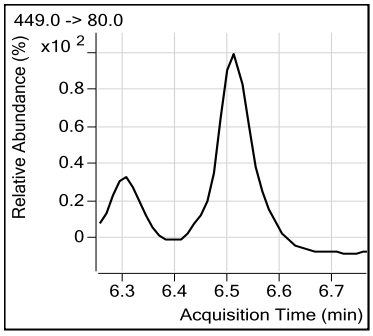


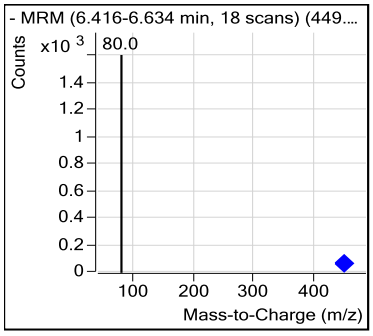




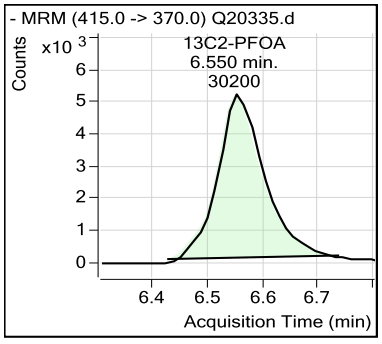
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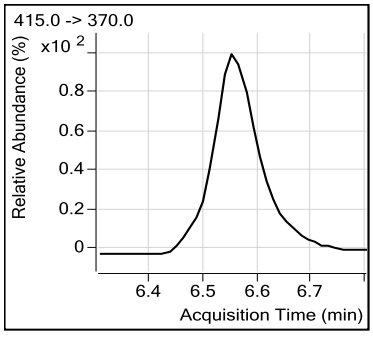


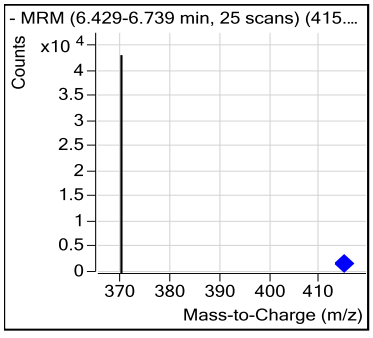




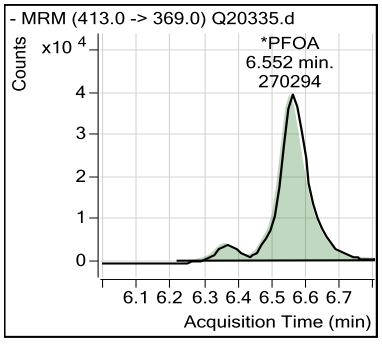
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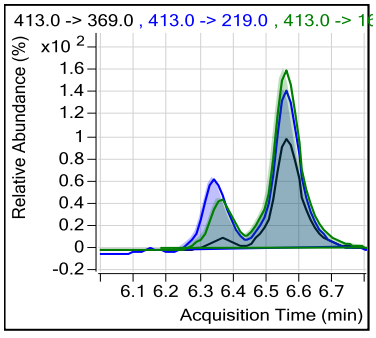


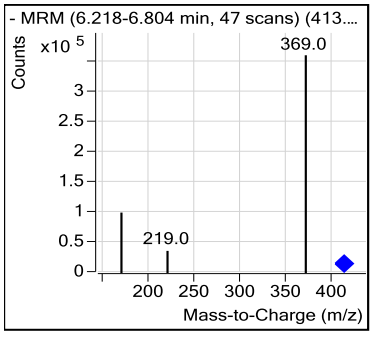




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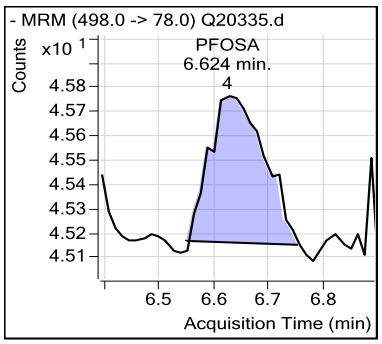


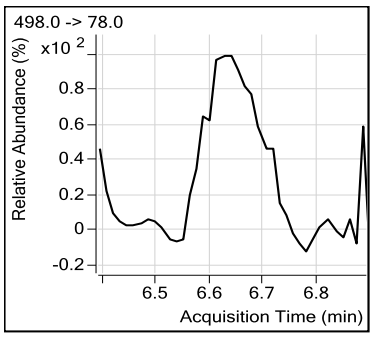


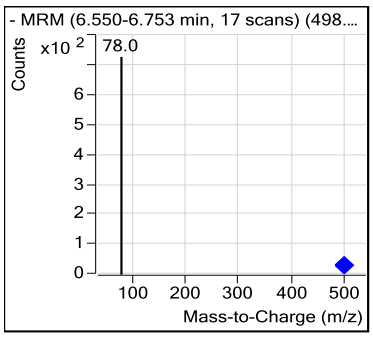


Perfluorinated Compounds by LC/MS/MS.

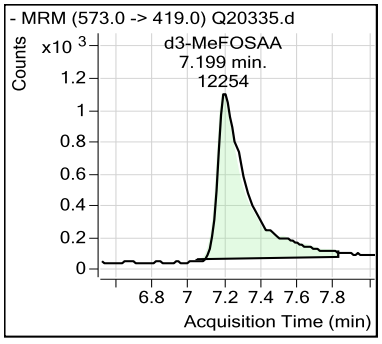
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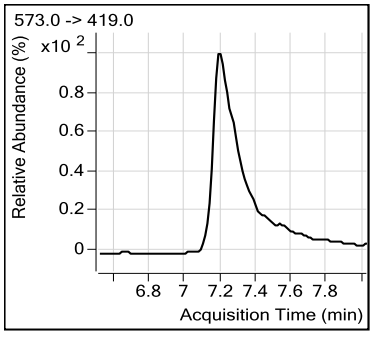


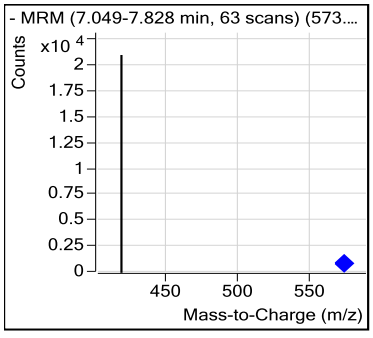




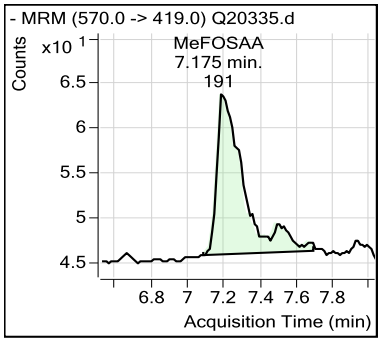
d3-MeFOSAA

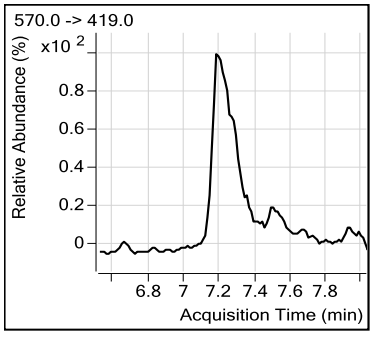


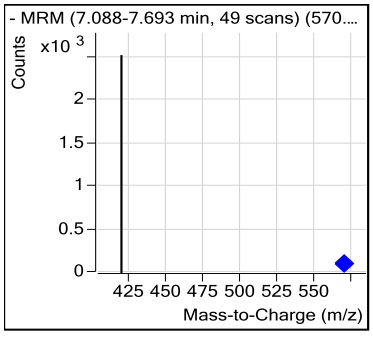




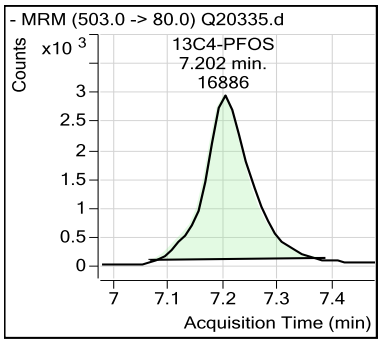
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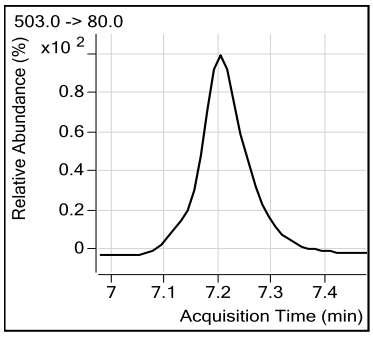


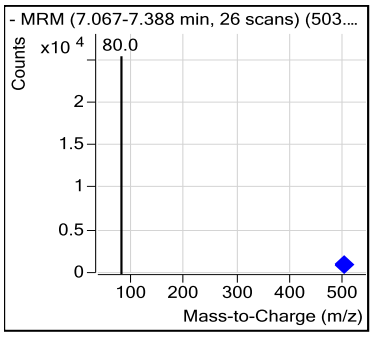




13C4-PFOS

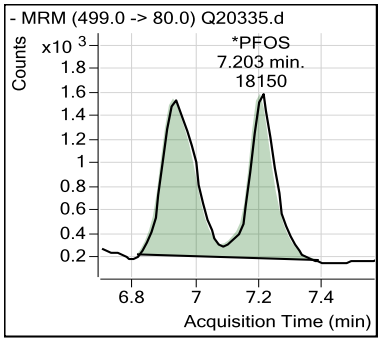


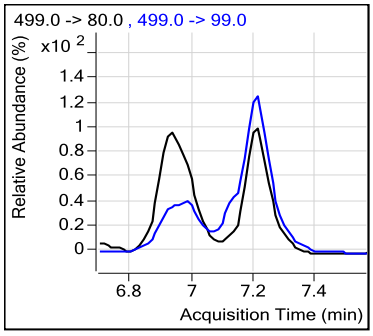


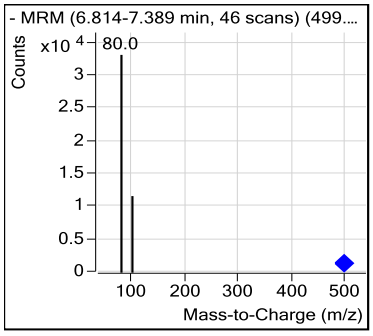


Perfluorinated Compounds by LC/MS/MS.

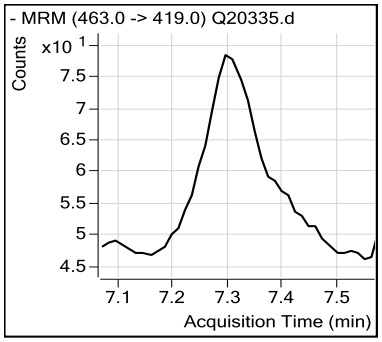
PFOS

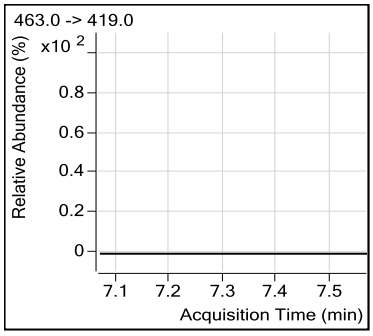


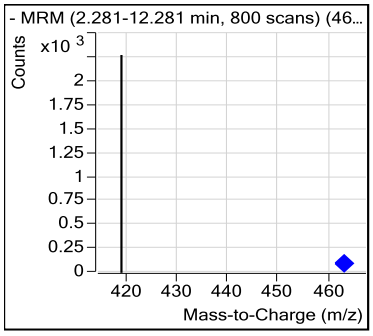




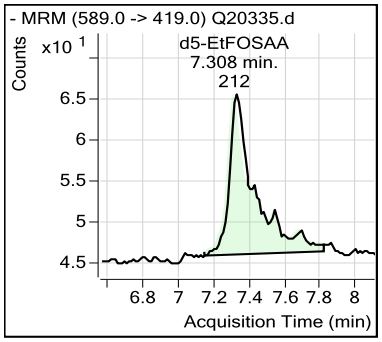
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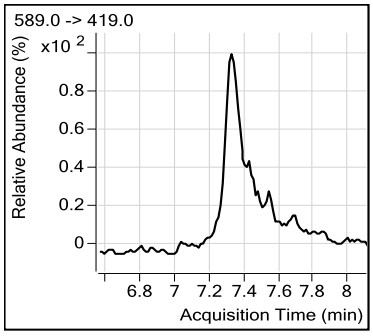


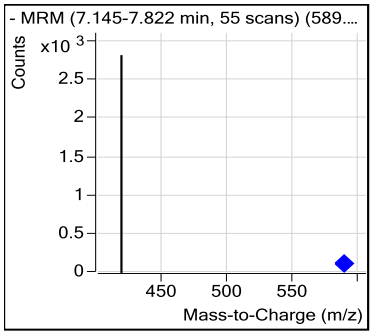




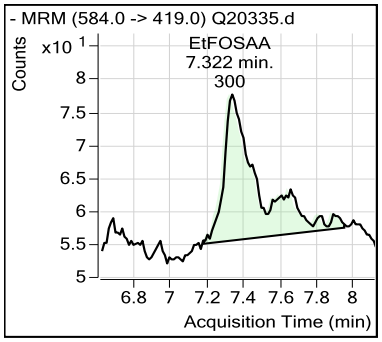
d5-EtFOSAA

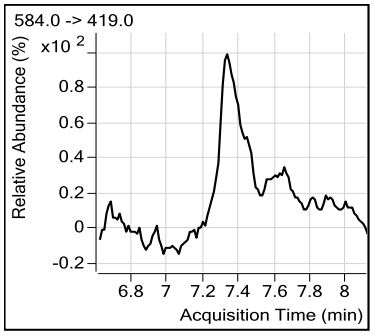


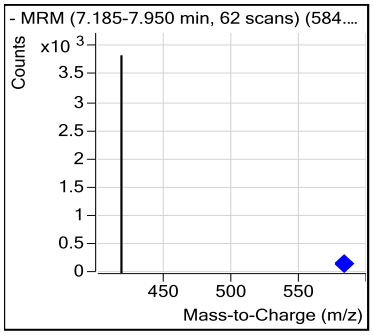




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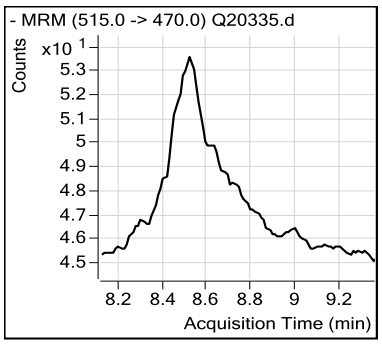


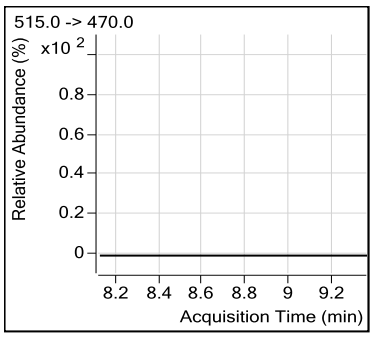


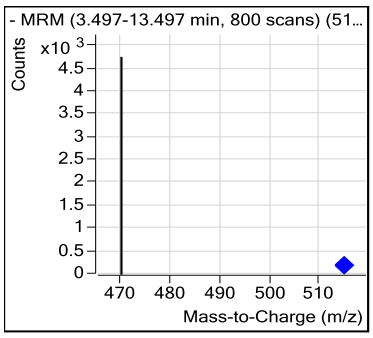


Perfluorinated Compounds by LC/MS/MS.

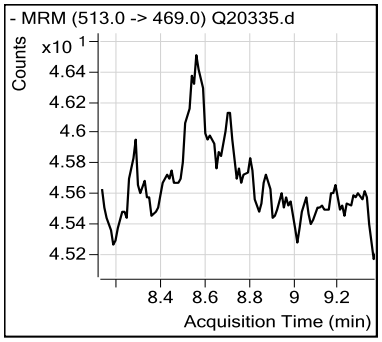
13C2-PFDA

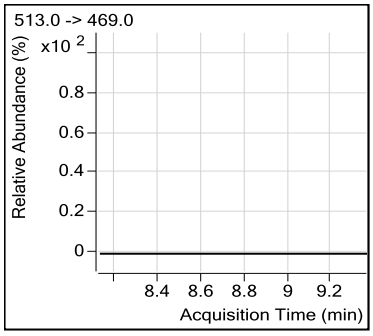


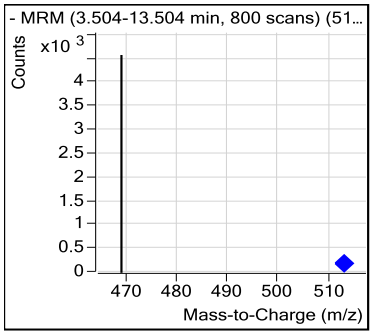




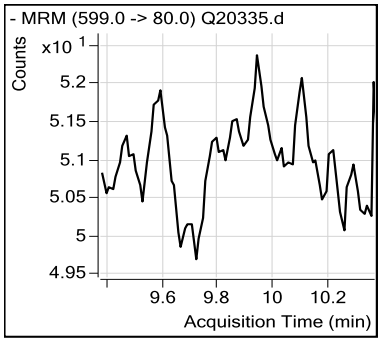
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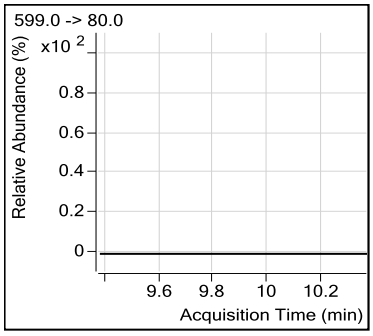


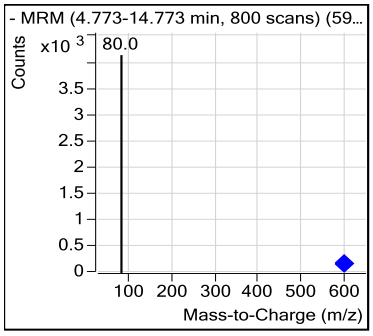




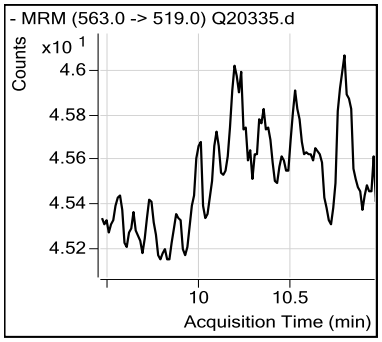
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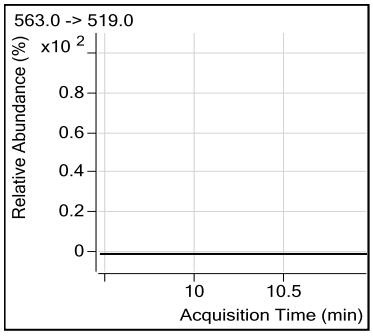


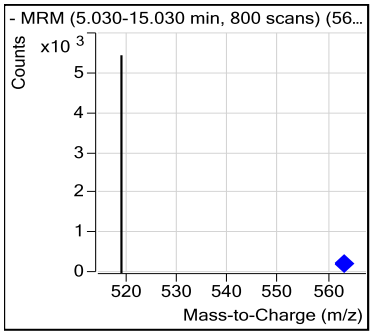




PFUnDA





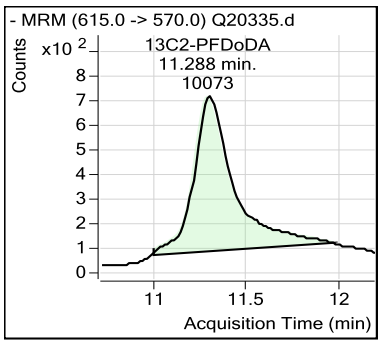


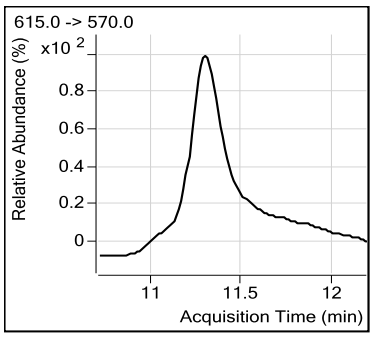
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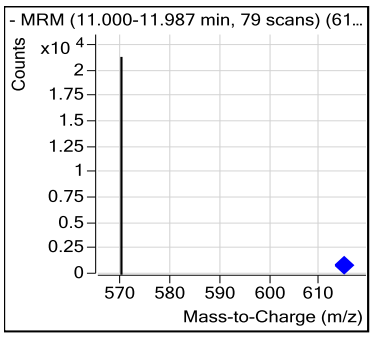
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Perfluorinated Compounds by LC/MS/MS.

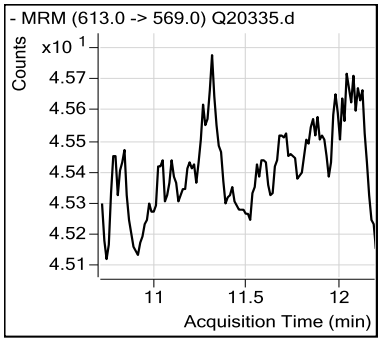
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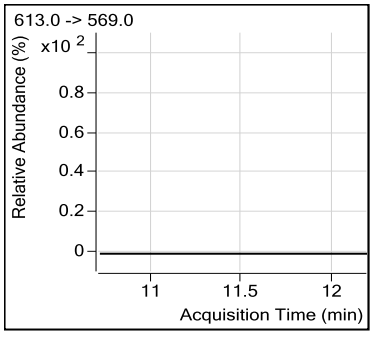


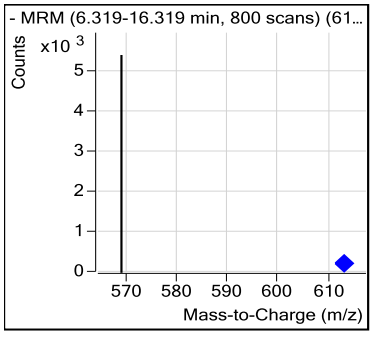




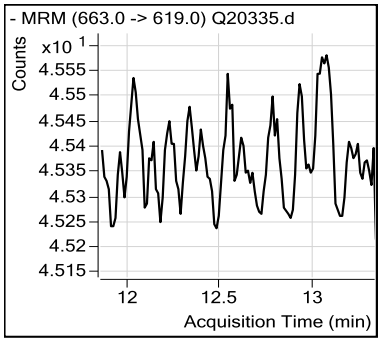
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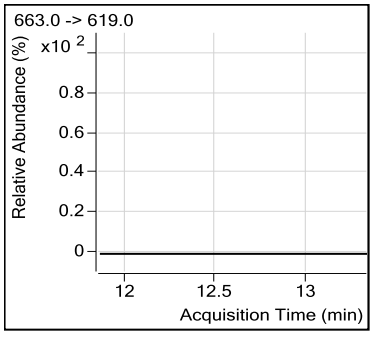


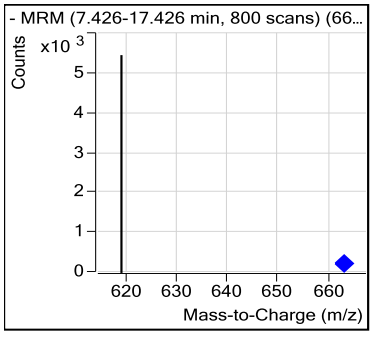




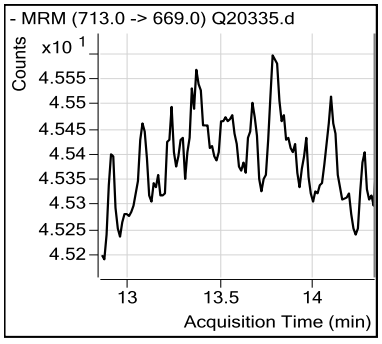
PFTrDA

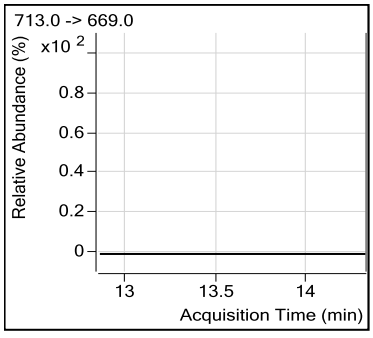


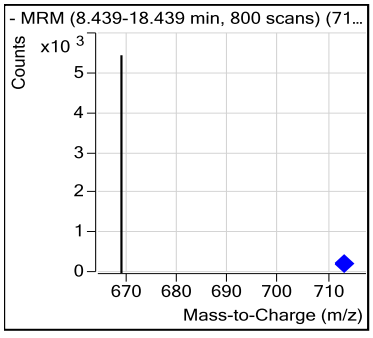




PFTeDA







Manual Integration Approval Summary

Sample Number: FA32826-11
Lab FileID: Q20335.D
Injection Time: 04/13/16 22:30
Method: EPA 537 MOD
Analyst approved: 04/14/16 16:26 Nancy Saunders
Supervisor approved: 04/14/16 17:17 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.82	Split peak
Perfluoroheptanoic acid	375-85-9		5.82	Split peak
Perfluorooctanoic acid	335-67-1		6.55	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.20	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:17

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20336.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 22:51
Sample Name	:	FA32826-11
Vial	:	Vial 28
Sample Info	:	OP59984,SQ608,130,,,1.0,500,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

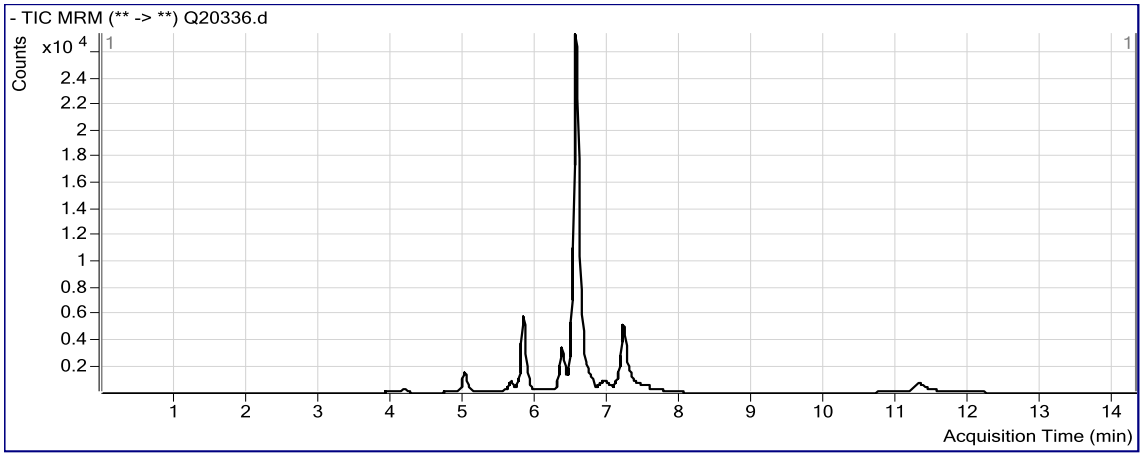
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.550	415.0 -> 370.0	30082	20.000	µg/L		0.013
d3-MeFOSAA	7.199	573.0 -> 419.0	10759	40.000	µg/L		0.013
13C4-PFOS	7.202	503.0 -> 80.0	16854	20.000	µg/L		0.013
13C2-PFDoDA	11.288	615.0 -> 570.0	9996	20.000	µg/L		-0.025
System Monitoring Compounds							
d5-EtFOSAA	7.321	589.0 -> 419.0	153	0.00	µg/L		0.025
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFPeA	4.024	263.0 -> 219.0	438	3.142	µg/L		100
PFBS	4.166	299.0 -> 80.0	905	3.183	µg/L		93
PFHxA	5.008	313.0 -> 269.0	7713	19.967	µg/L		98
PFHxS	5.818	399.0 -> 80.0	17103	34.460	µg/L	m	90
PFHpA	5.823	363.0 -> 319.0	4560	6.352	µg/L	#	69
PFOA	6.552	413.0 -> 369.0	110762	79.126	µg/L	# m	74
PFOSA	6.662	498.0 -> 78.0	3	0.005	µg/L		100
MeFOSAA	7.200	570.0 -> 419.0	132	0.000	µg/L		100
PFOS	7.203	499.0 -> 80.0	7765	8.922	µg/L	m	95
EtFOSAA	7.335	584.0 -> 419.0	227	0.000	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

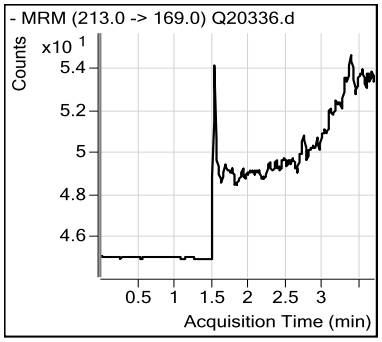
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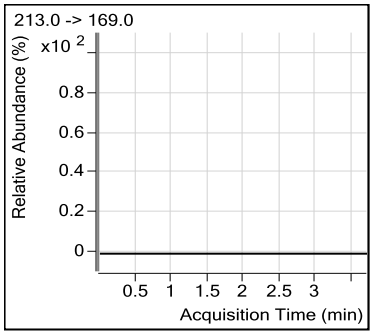
Perfluorinated Compounds by LC/MS/MS.

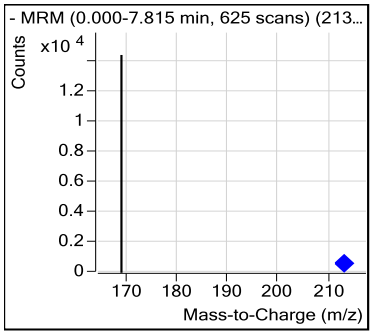
Data File	:	Q20336.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 22:51
Sample Name	:	FA32826-11
Vial	:	Vial 28
Sample Info	:	OP59984,SQ608,130,,,1.0,500,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



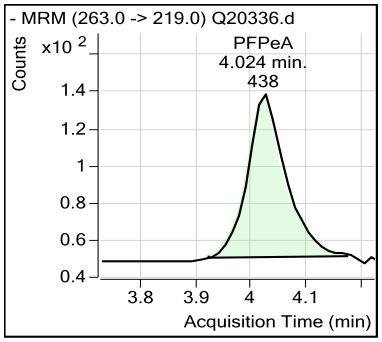
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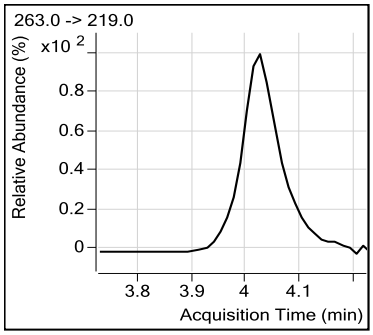


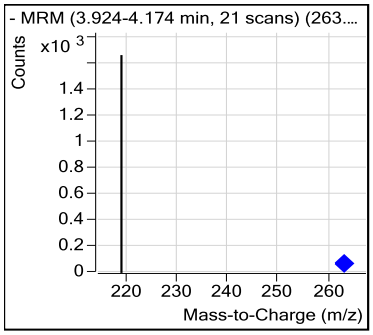




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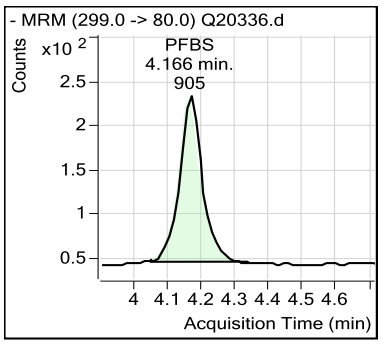


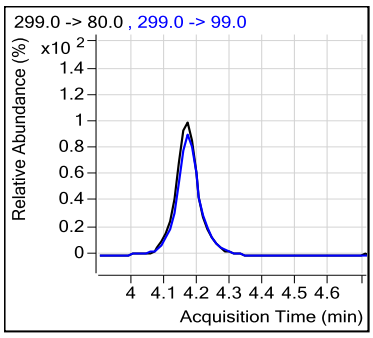


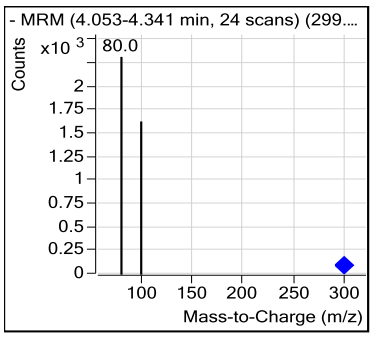


Perfluorinated Compounds by LC/MS/MS.

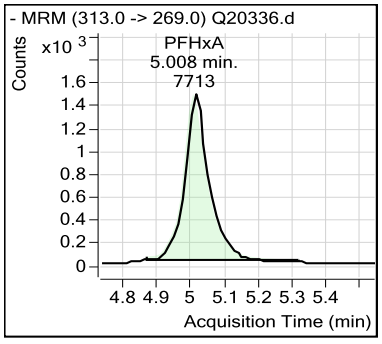
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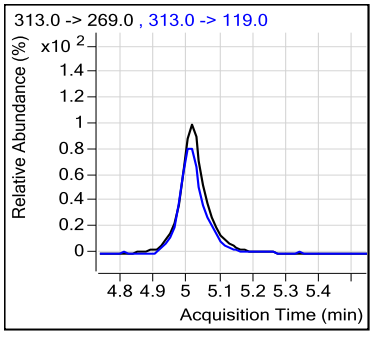


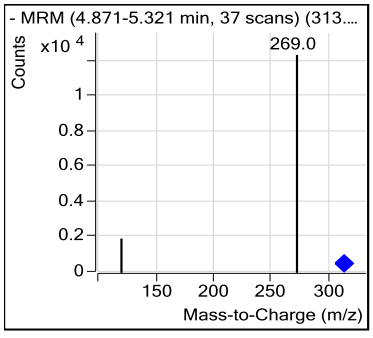




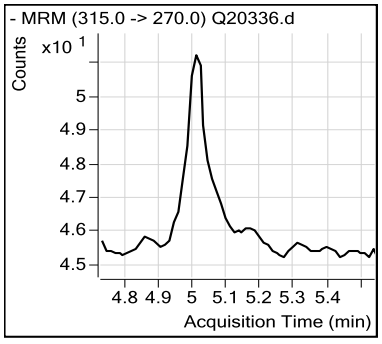
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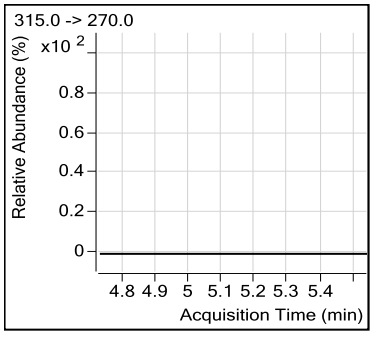


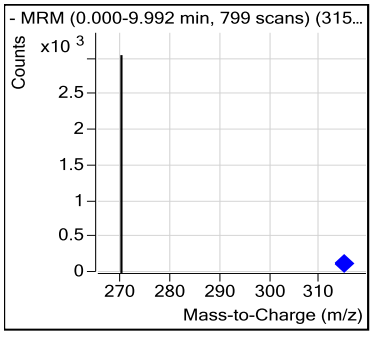




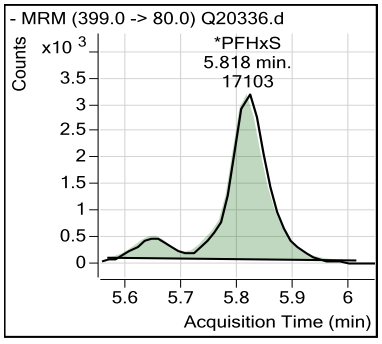
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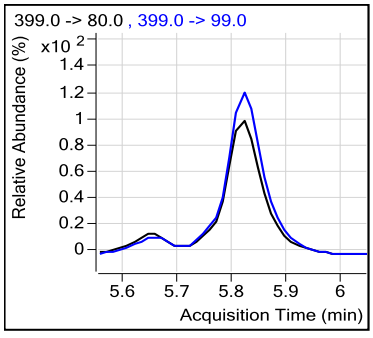


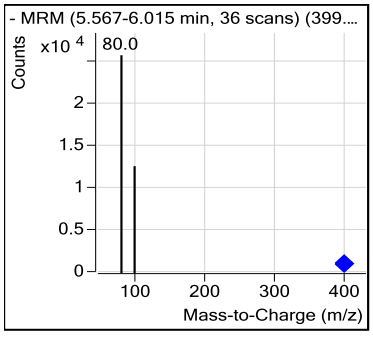




PFHxS





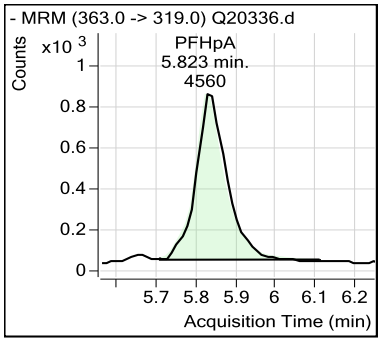


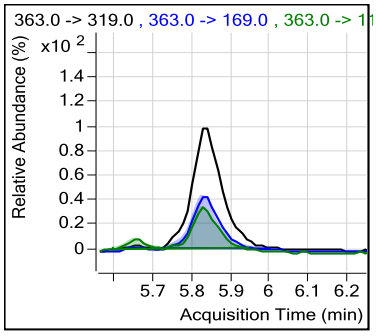
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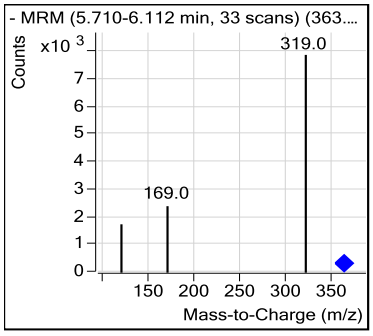
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Perfluorinated Compounds by LC/MS/MS.

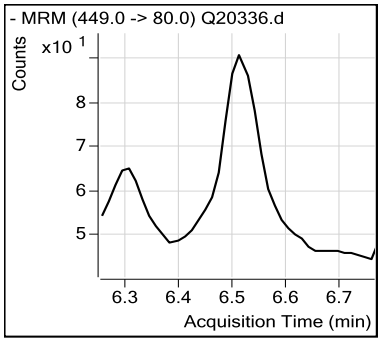
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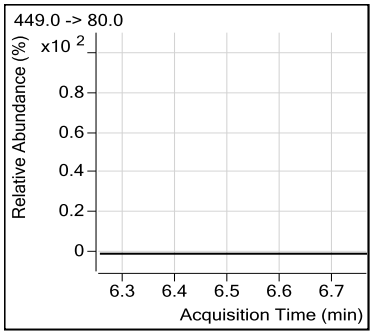


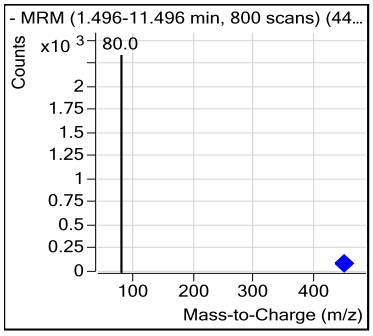




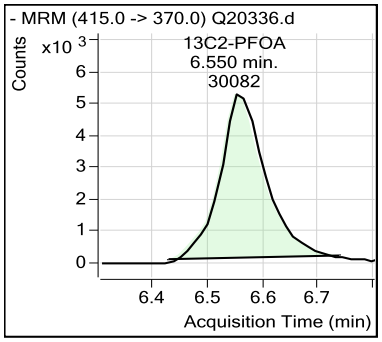
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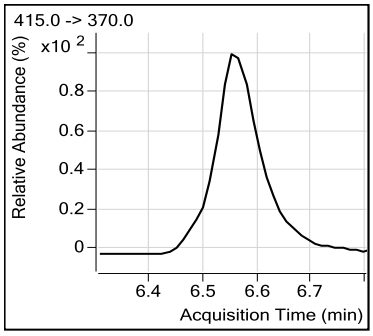


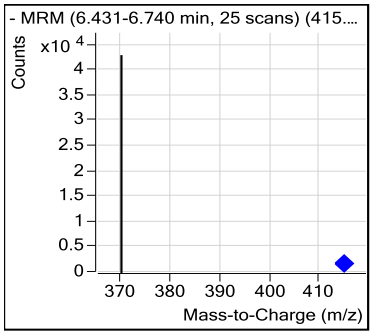




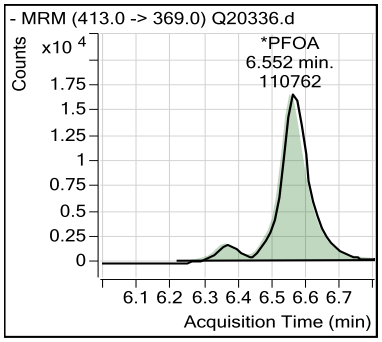
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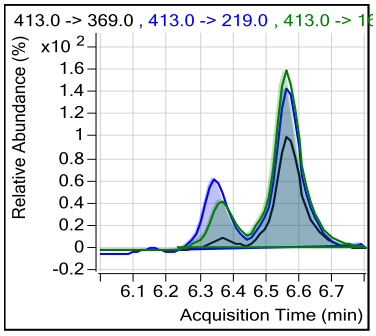


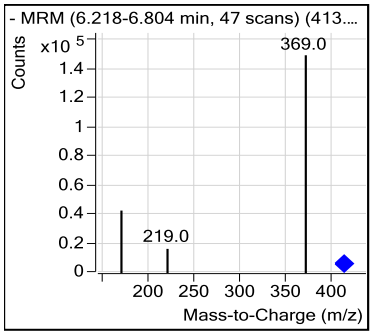




PFOA





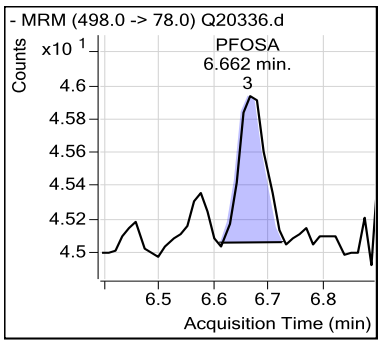


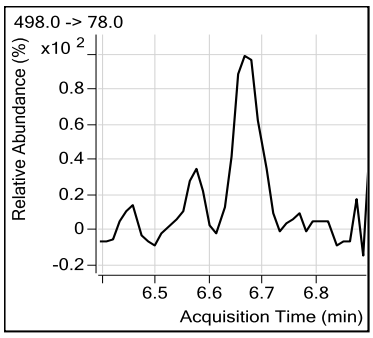
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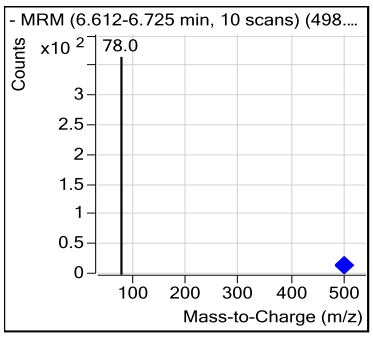
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Perfluorinated Compounds by LC/MS/MS.

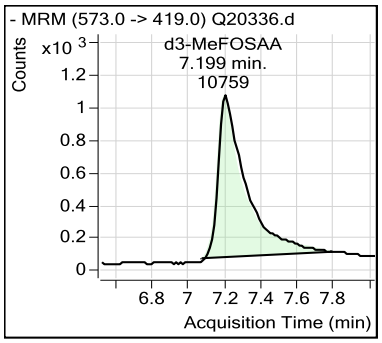
PFOSA

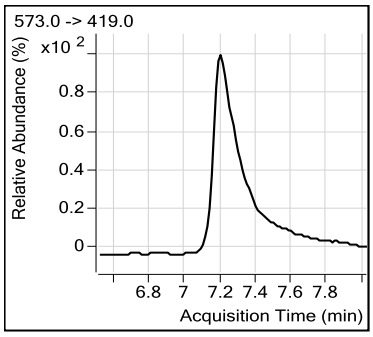


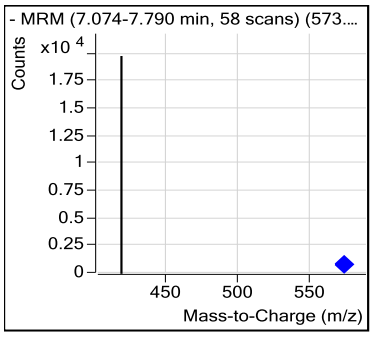




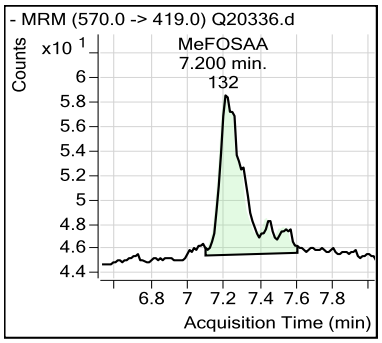
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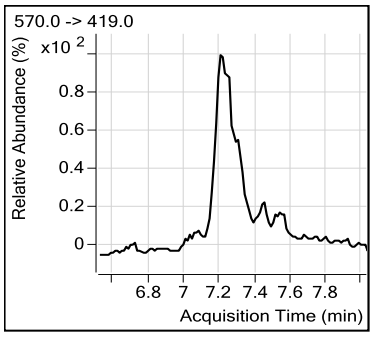


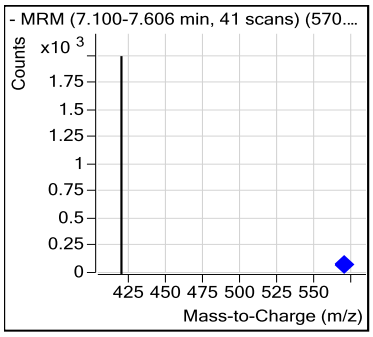




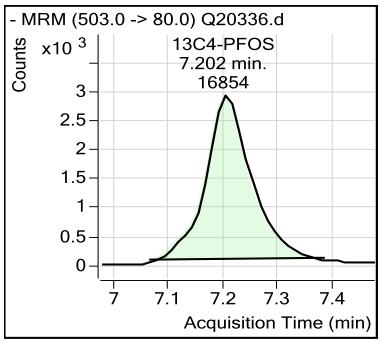
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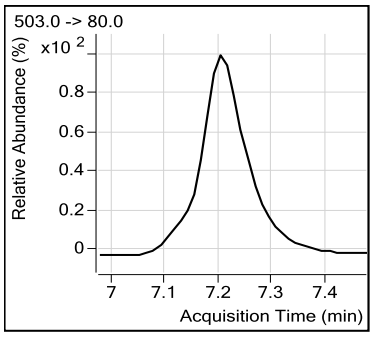


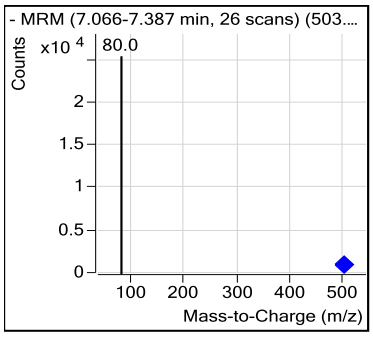




13C4-PFOS

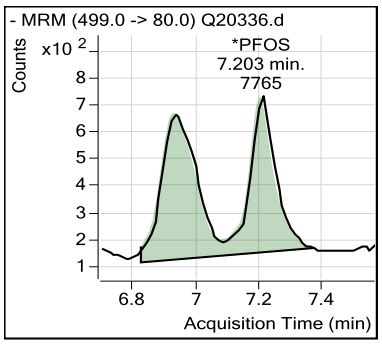


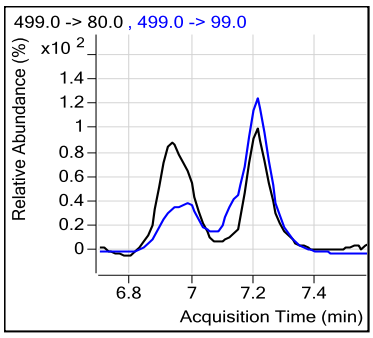


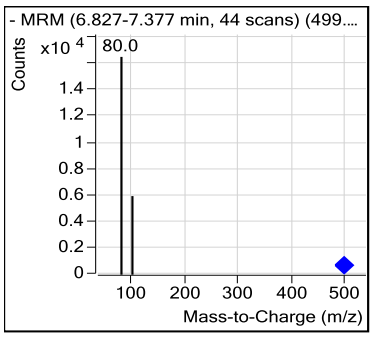


Perfluorinated Compounds by LC/MS/MS.

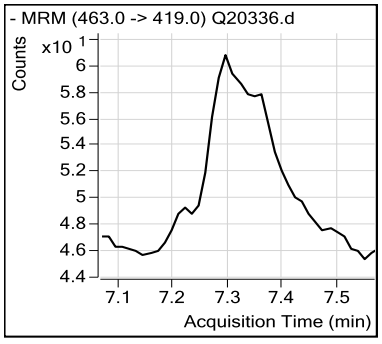
PFOS

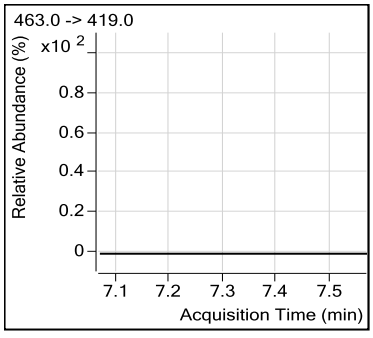


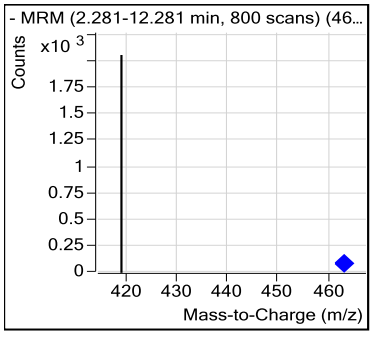




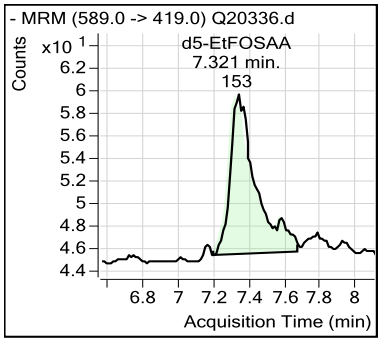
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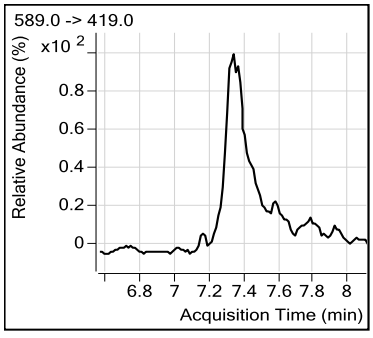


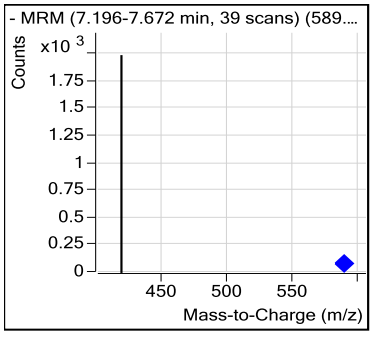




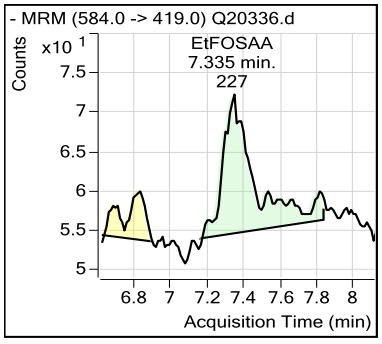
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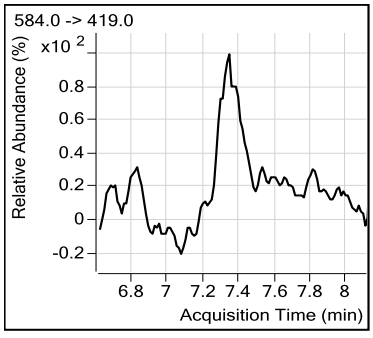


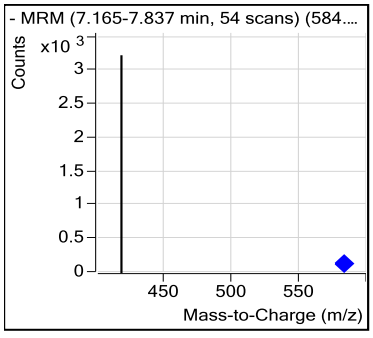




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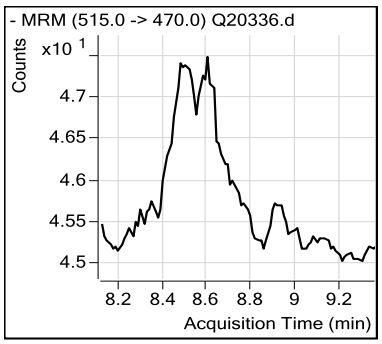


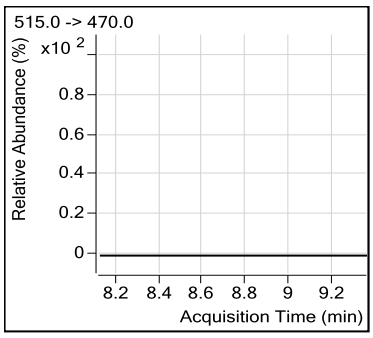


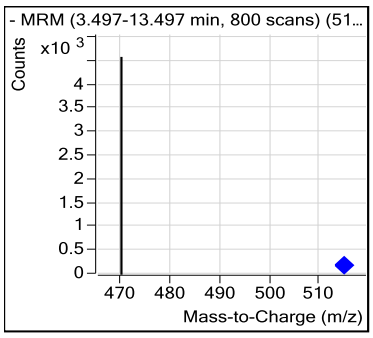


Perfluorinated Compounds by LC/MS/MS.

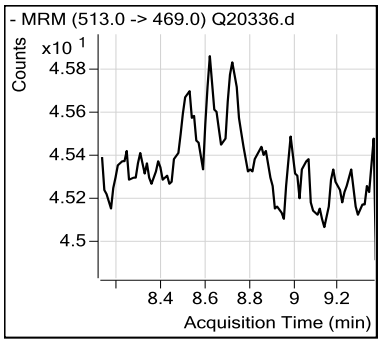
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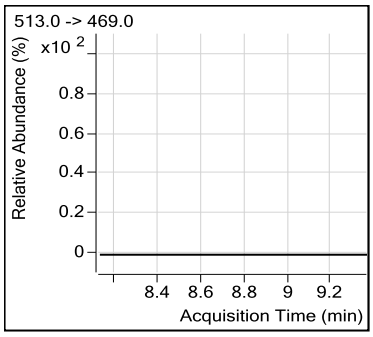


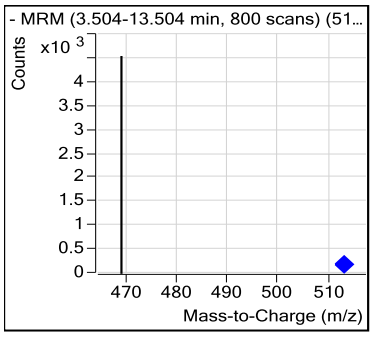




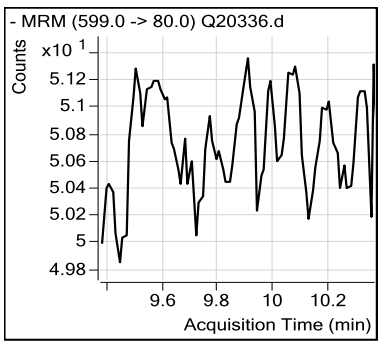
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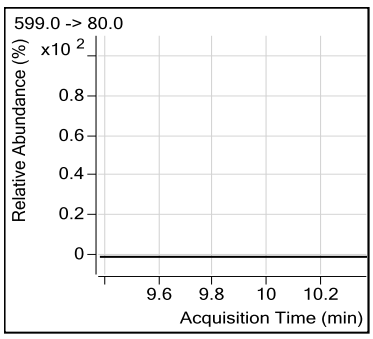


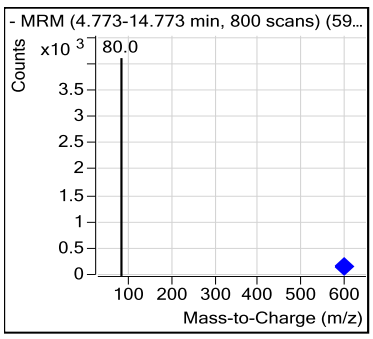




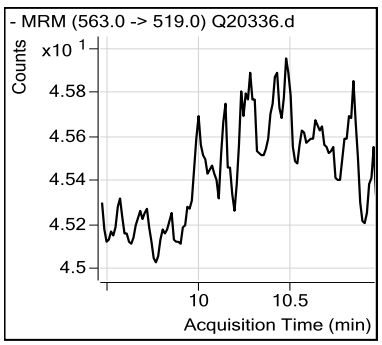
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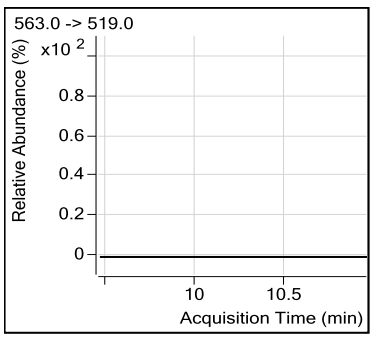


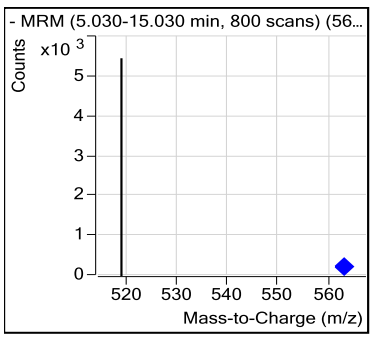




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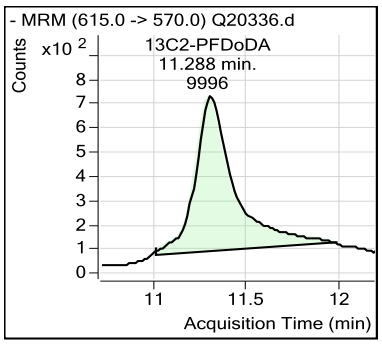


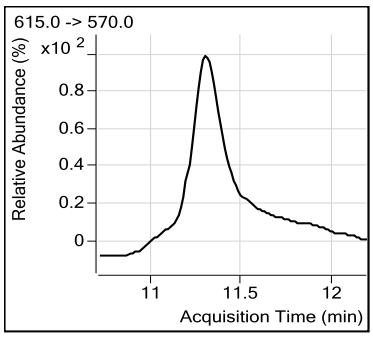
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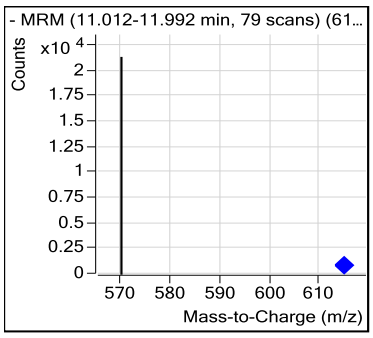
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Perfluorinated Compounds by LC/MS/MS.

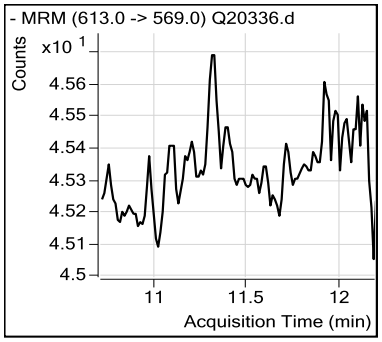
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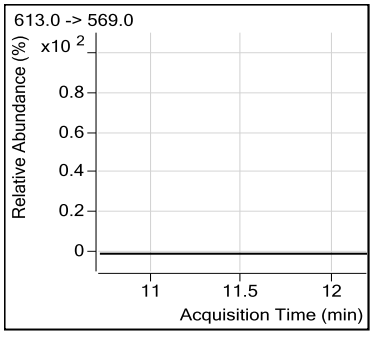


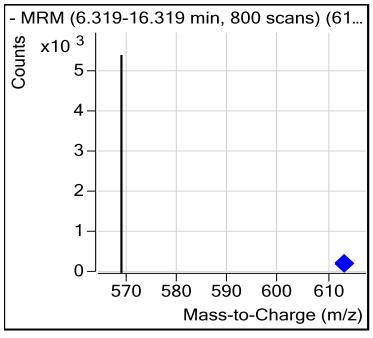




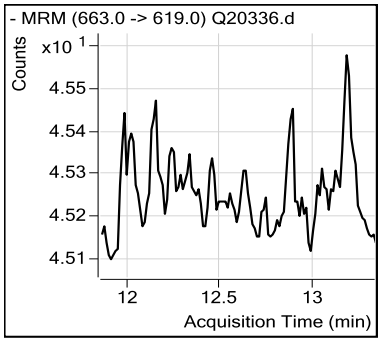
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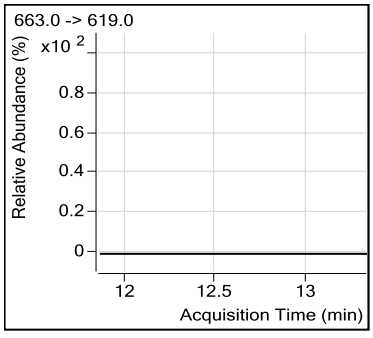


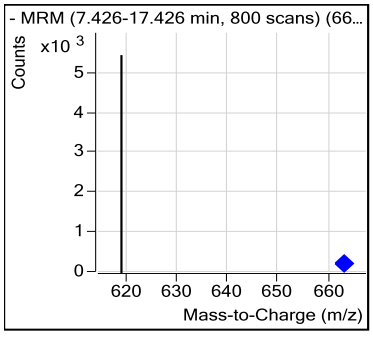




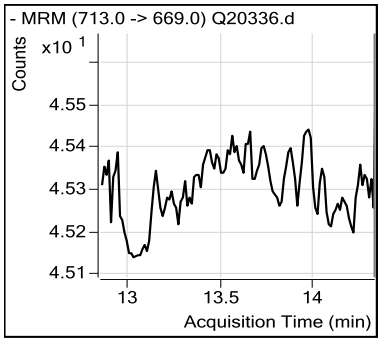
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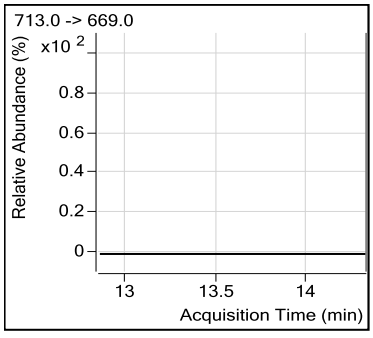


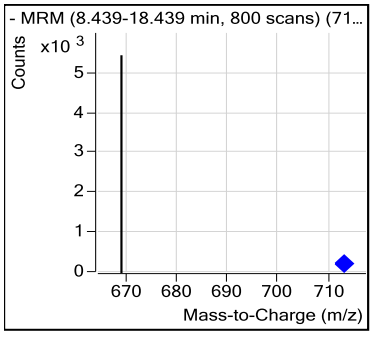




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-11	**Method:**	EPA 537 MOD
Lab FileID:	Q20336.D	**Analyst approved:**	04/14/16 16:26 Nancy Saunders
Injection Time:	04/13/16 22:51	**Supervisor approved:**	04/14/16 17:17 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.82	Split peak
Perfluorooctanoic acid	335-67-1		6.55	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.20	Split peak

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:17

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20361.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 12:38
Sample Name	:	FA32826-11
Vial	:	Vial 10
Sample Info	:	OP59984,SQ609,130,,,1,1000,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28

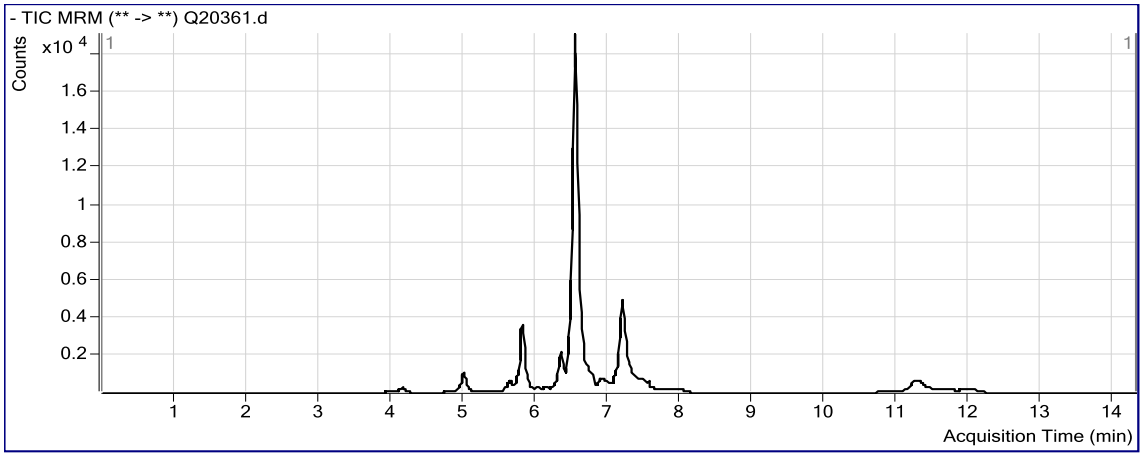
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	32205	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	12716	40.000	µg/L		0.000
13C4-PFOS	7.189	503.0 -> 80.0	17495	20.000	µg/L		0.000
13C2-PFDoDA	11.250	615.0 -> 570.0	10124	20.000	µg/L		-0.062
System Monitoring Compounds							
d5-EtFOSAA	7.321	589.0 -> 419.0	187	0.00	µg/L		0.025
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFPeA	3.999	263.0 -> 219.0	308	2.064	µg/L		100
PFBS	4.141	299.0 -> 80.0	602	2.038	µg/L		94
PFHxA	4.996	313.0 -> 269.0	5227	12.638	µg/L		98
PFHxS	5.805	399.0 -> 80.0	10358	20.105	µg/L	m	86
PFHpA	5.810	363.0 -> 319.0	2840	3.696	µg/L	#	70
PFOA	6.539	413.0 -> 369.0	69832	46.598	µg/L	m	77
PFOS	6.916	499.0 -> 80.0	4584	5.074	µg/L	m	99
MeFOSAA	7.200	570.0 -> 419.0	100	0.000	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	204	0.000	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

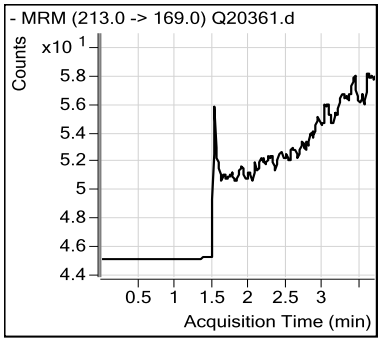
7.1.20
7

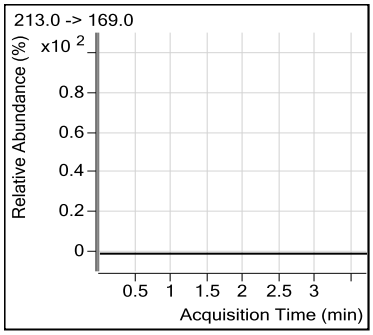
Perfluorinated Compounds by LC/MS/MS.

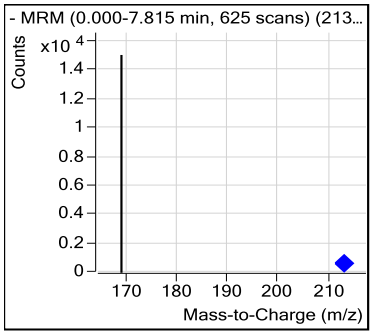
Data File	:	Q20361.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 12:38
Sample Name	:	FA32826-11
Vial	:	Vial 10
Sample Info	:	OP59984,SQ609,130,,,1,1000,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28



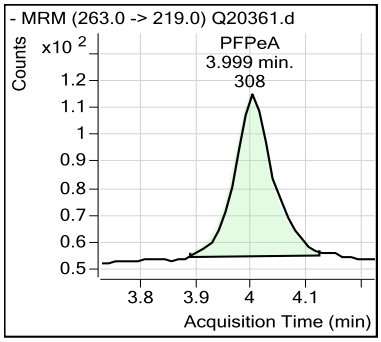
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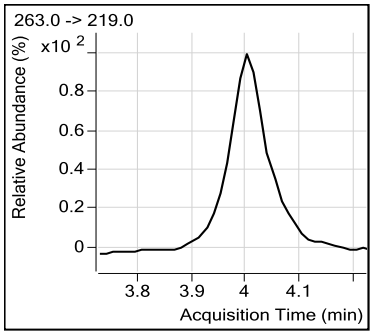


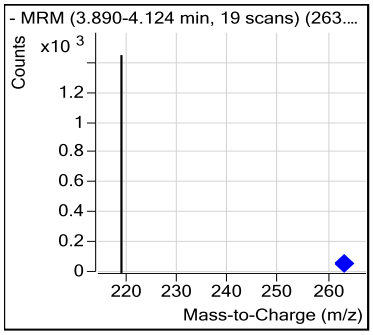




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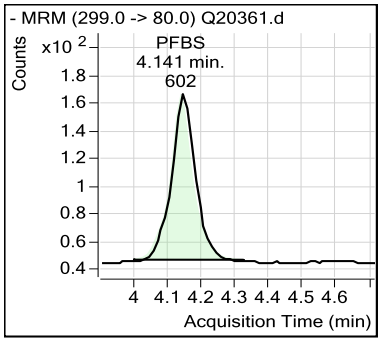


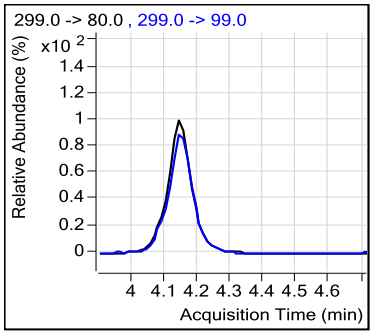


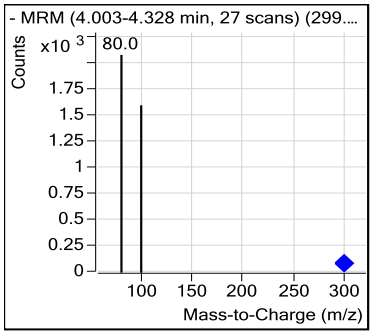


Perfluorinated Compounds by LC/MS/MS.

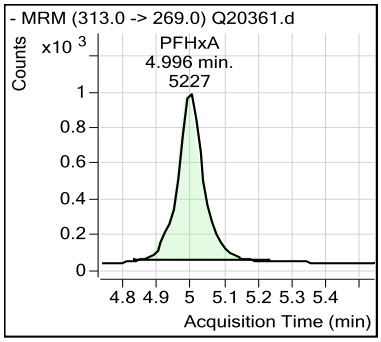
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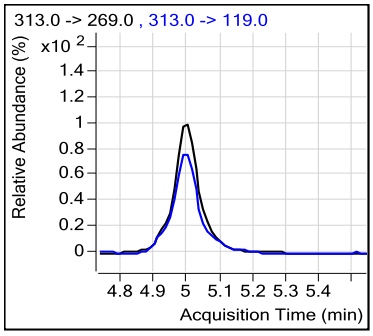


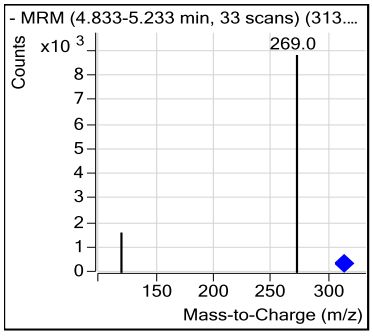




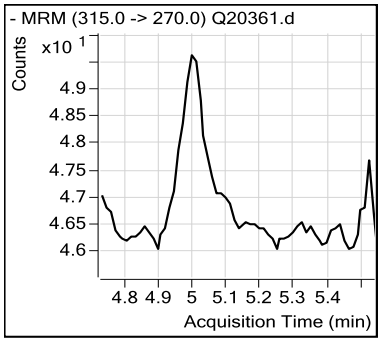
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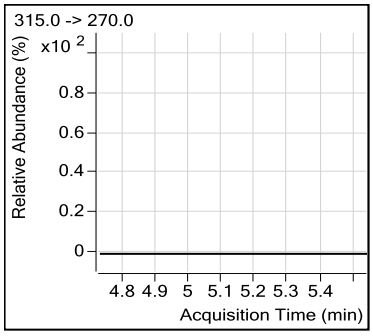


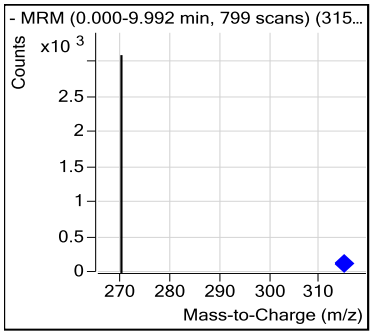




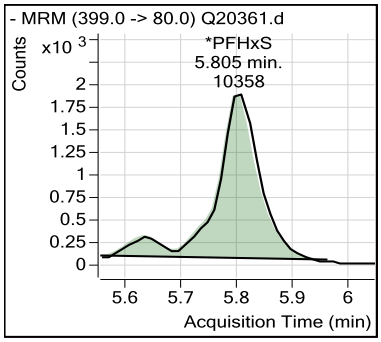
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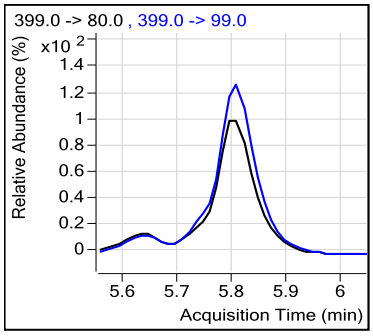


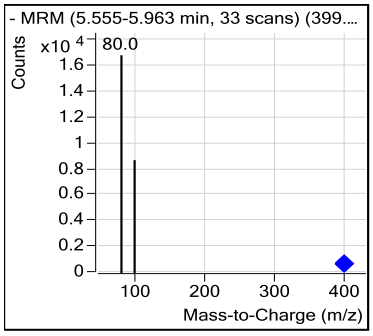




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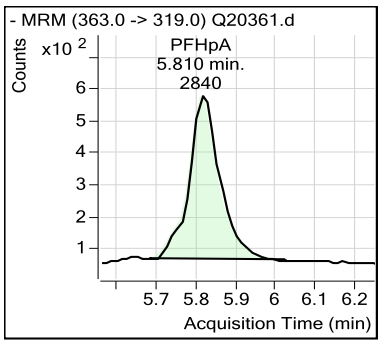


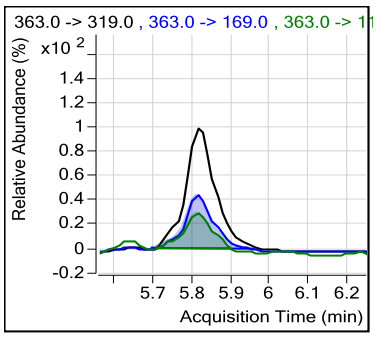


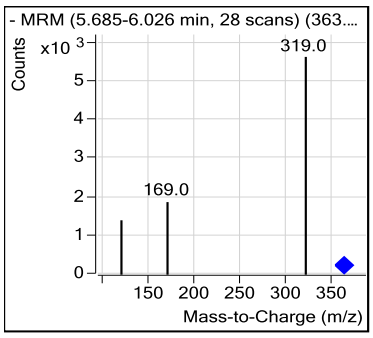


Perfluorinated Compounds by LC/MS/MS.

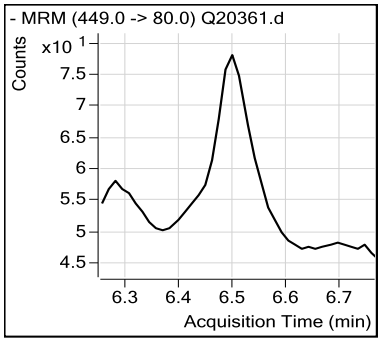
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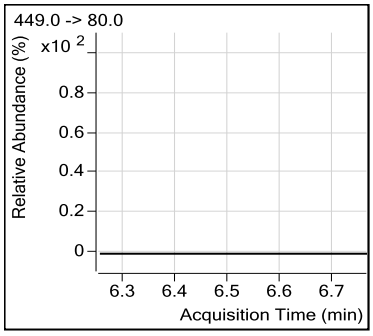


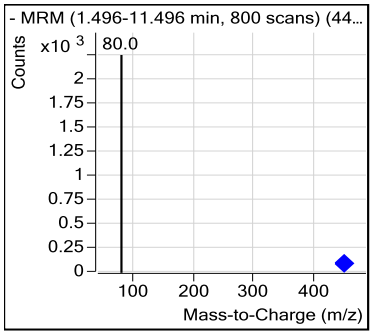




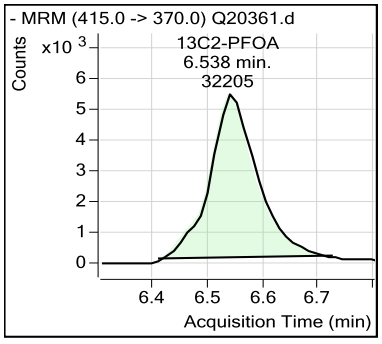
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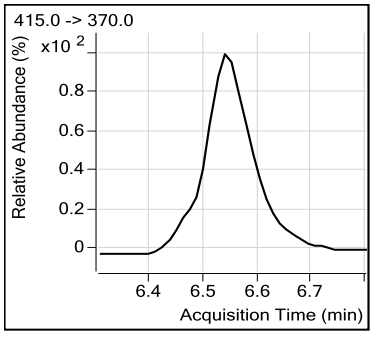


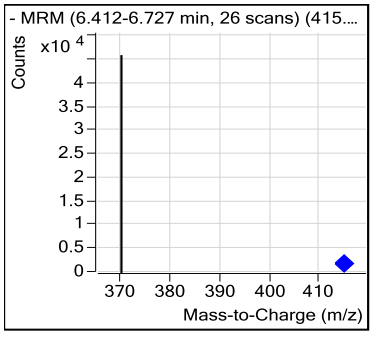




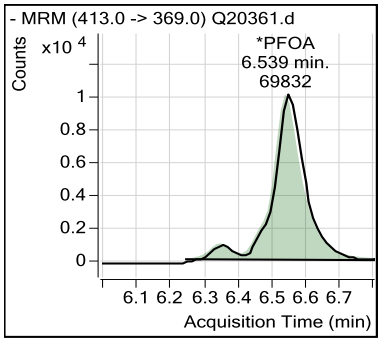
13C2-PFOA

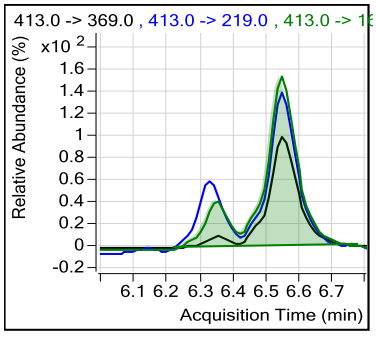


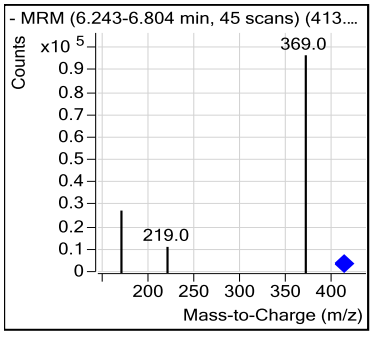




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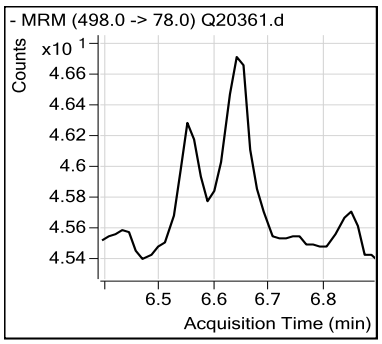


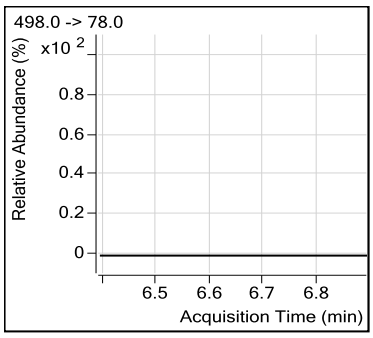


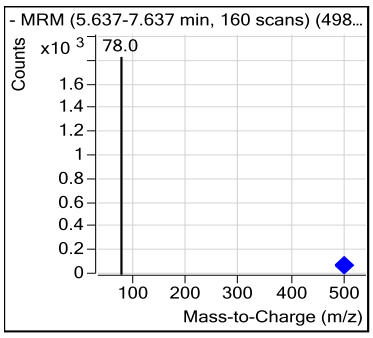


Perfluorinated Compounds by LC/MS/MS.

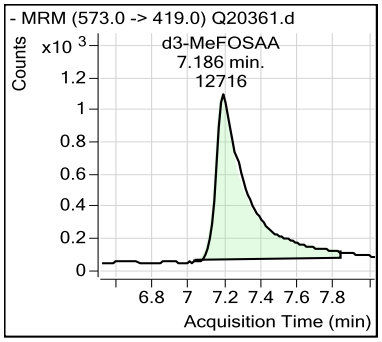
PFOSA

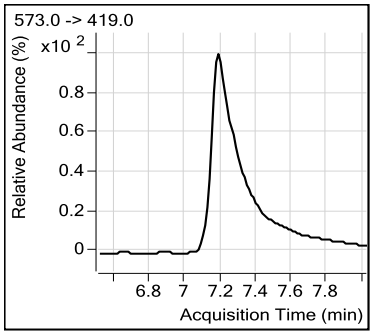


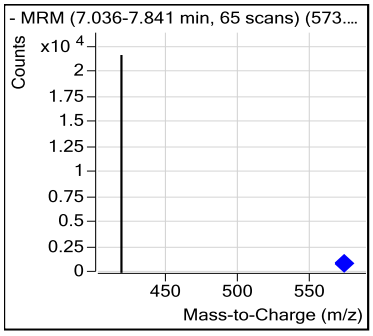




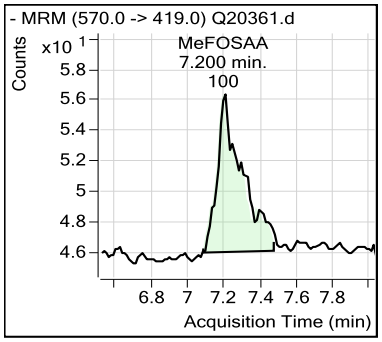
d3-MeFOSAA

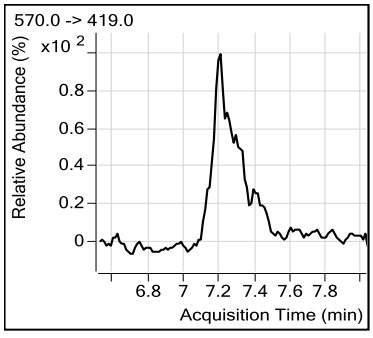


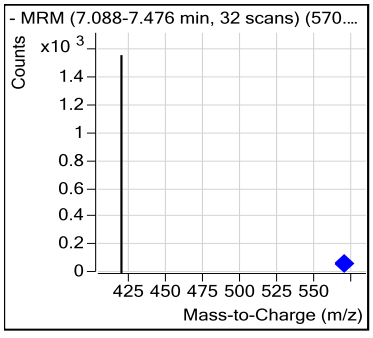




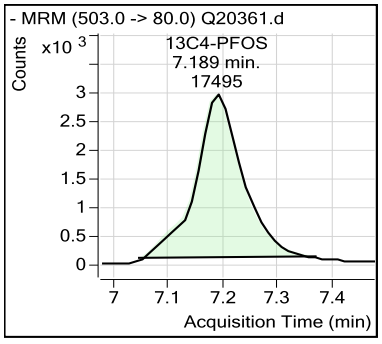
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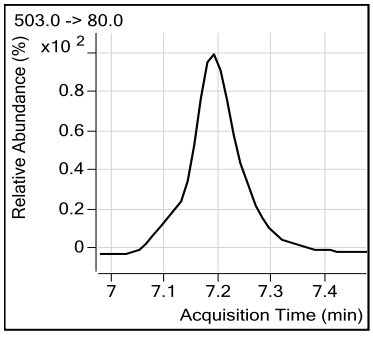


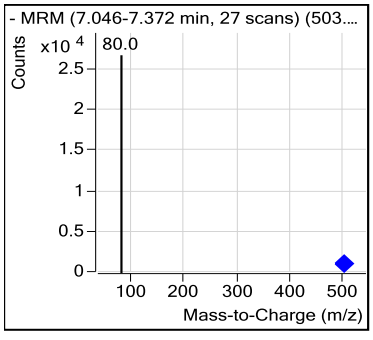




13C4-PFOS

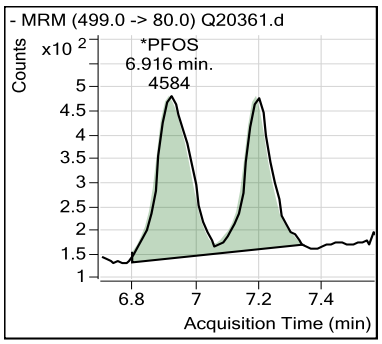


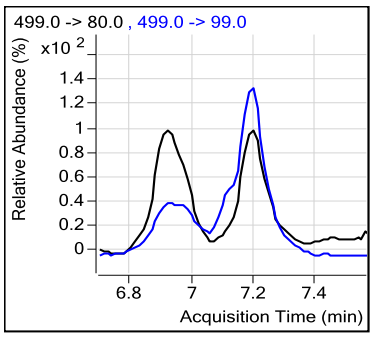


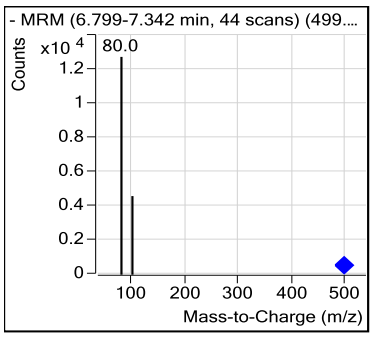


Perfluorinated Compounds by LC/MS/MS.

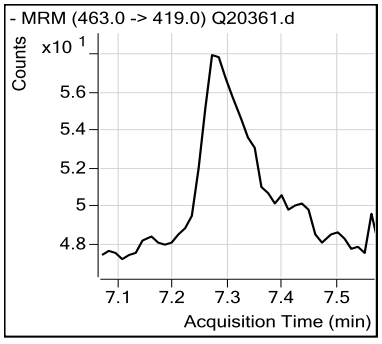
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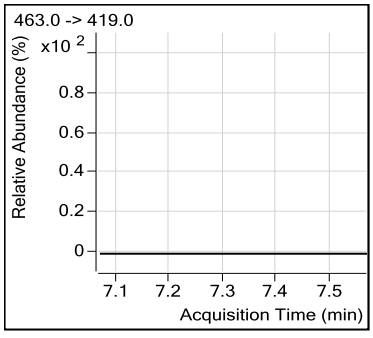


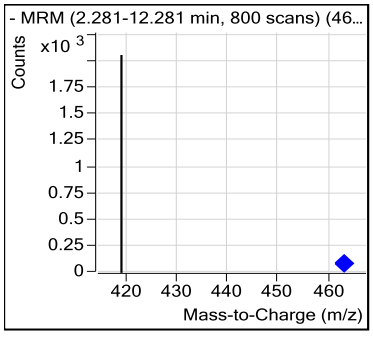




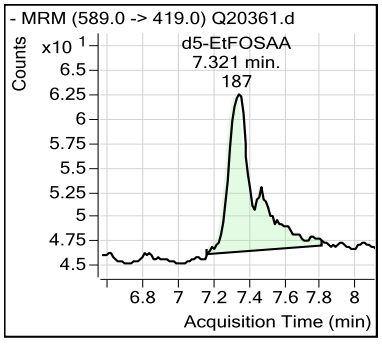
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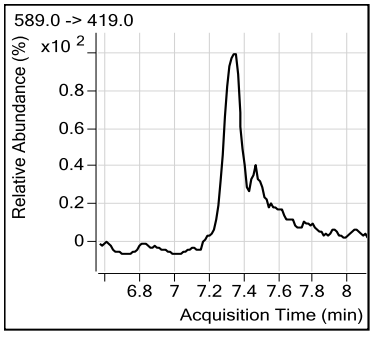


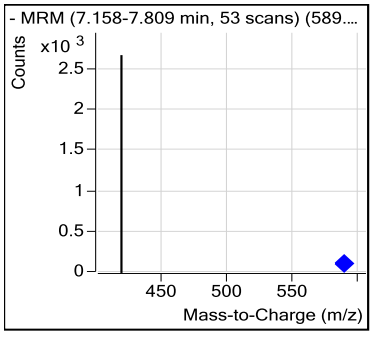




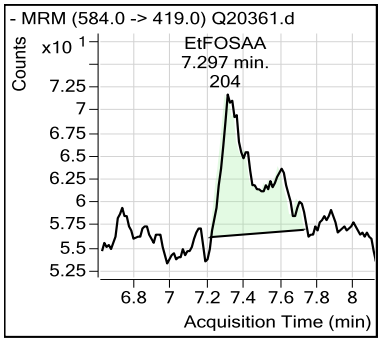
d5-EtFOSAA

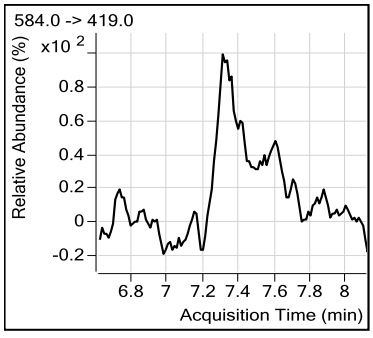


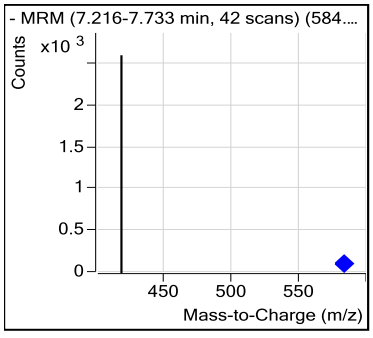




EtFOSAA

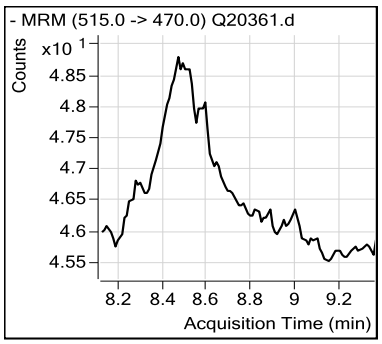


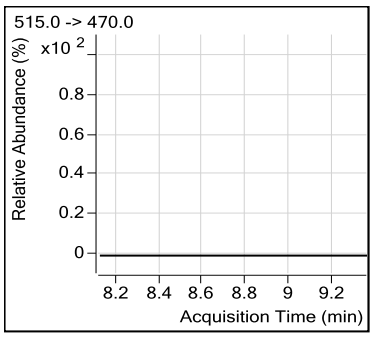


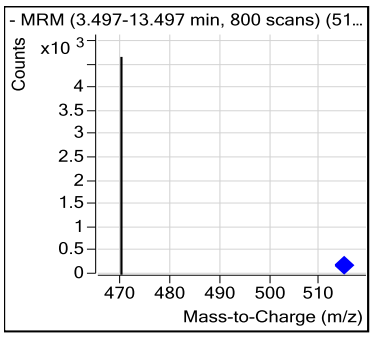


Perfluorinated Compounds by LC/MS/MS.

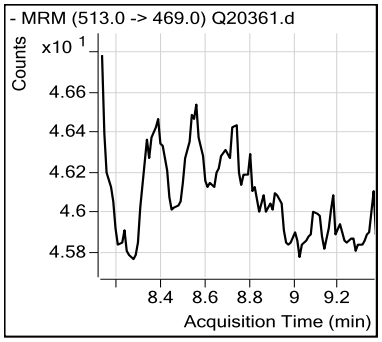
13C2-PFDA

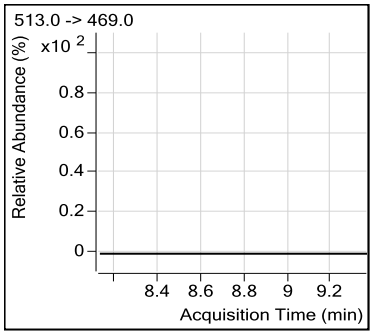


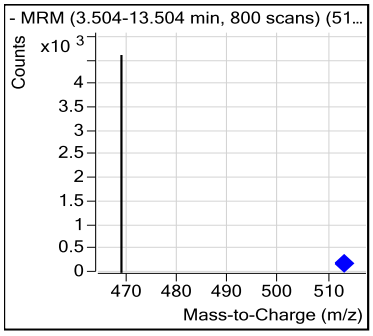




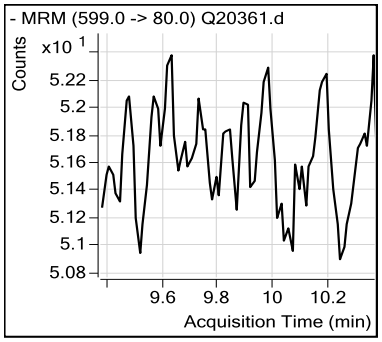
PFDA

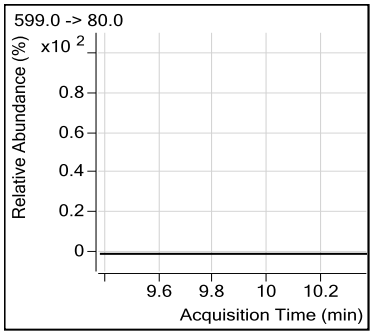


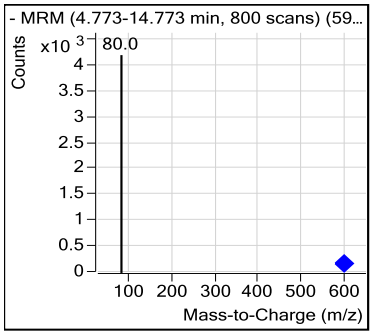




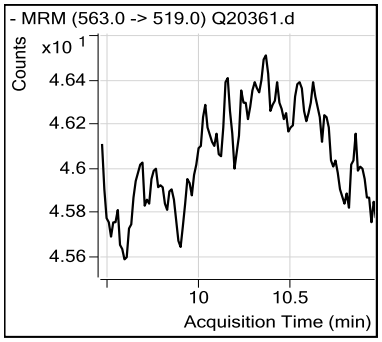
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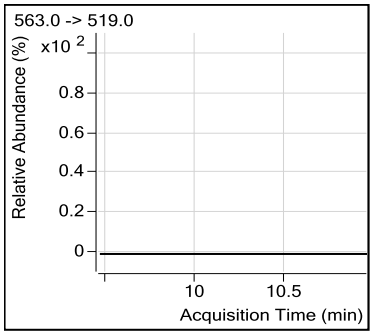


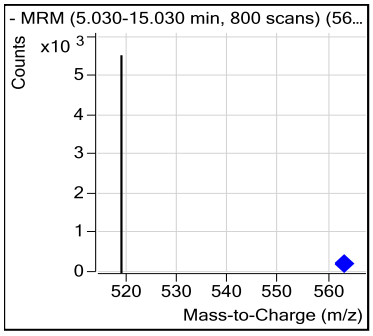




PFUnDA

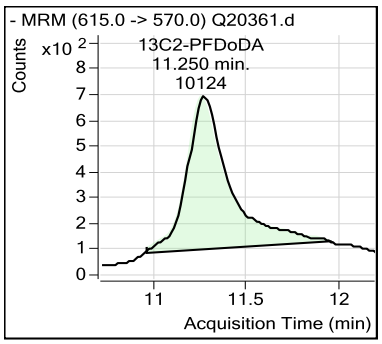


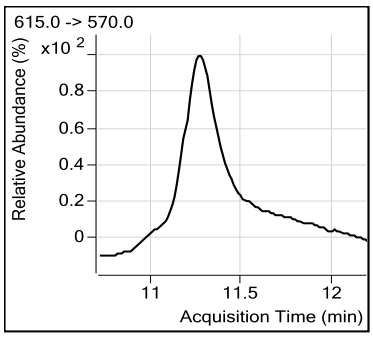


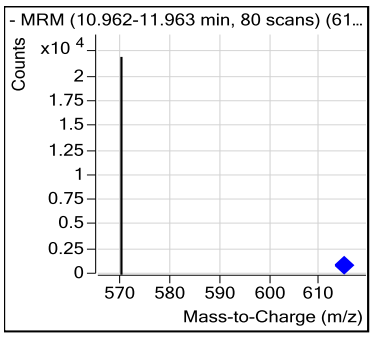


Perfluorinated Compounds by LC/MS/MS.

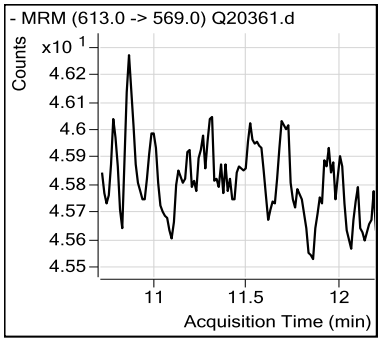
13C2-PFDoDA

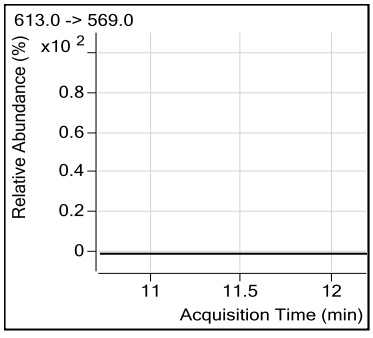


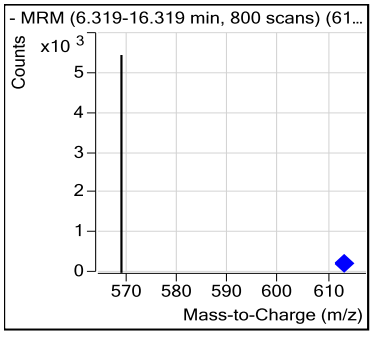




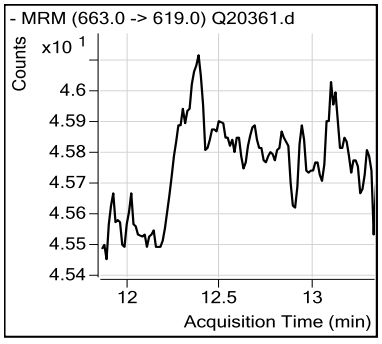
PFDoDA

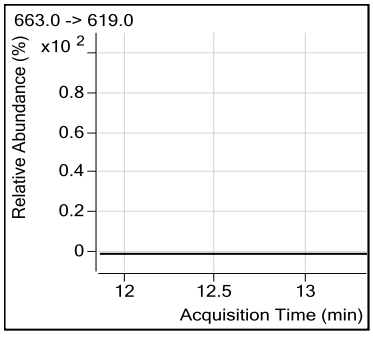


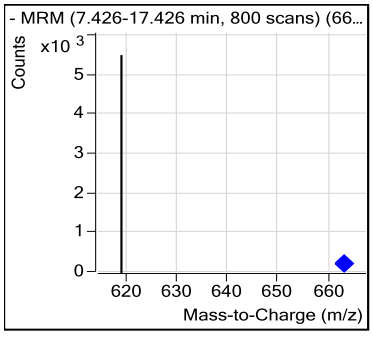




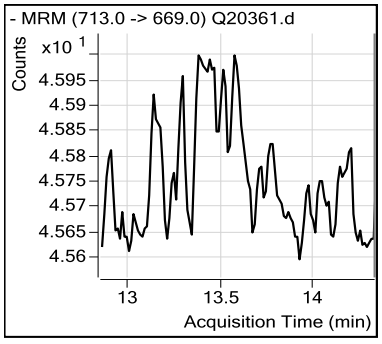
PFTrDA

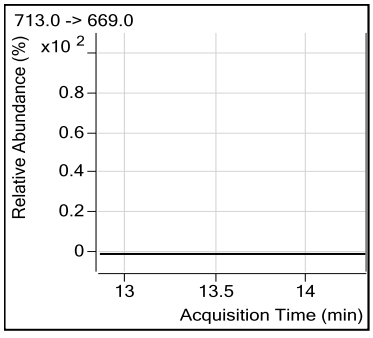


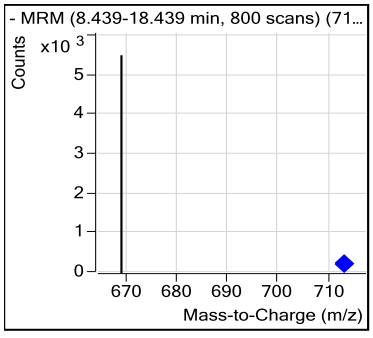




PFTeDA







Manual Integration Approval Summary

Sample Number:	FA32826-11	**Method:**	EPA 537 MOD
Lab FileID:	Q20361.D	**Analyst approved:**	04/14/16 16:26 Nancy Saunders
Injection Time:	04/14/16 12:38	**Supervisor approved:**	04/14/16 17:17 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.80	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		6.92	Split peak

Perfluorinated Compounds by LC/MS/MS.

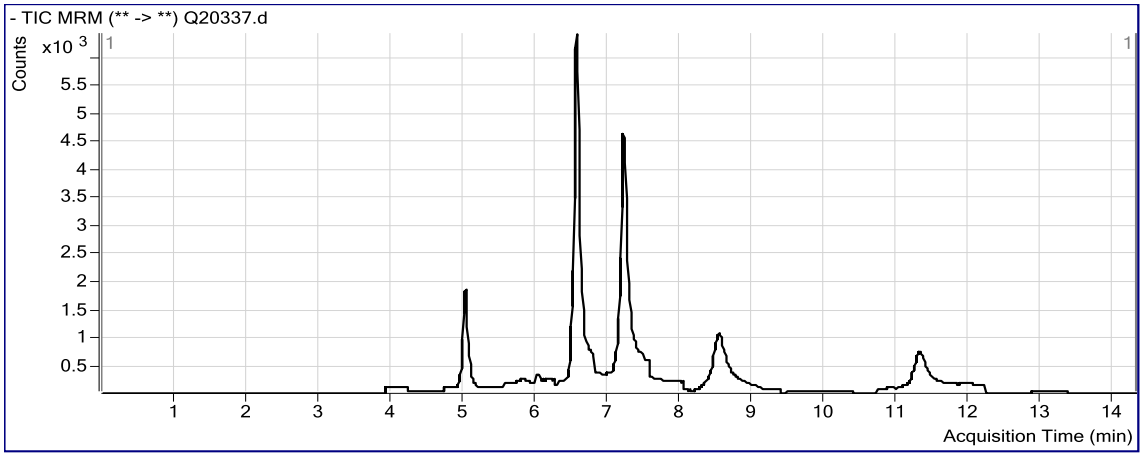
Data File	:	Q20337.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 23:13
Sample Name	:	FA32826-12
Vial	:	Vial 29
Sample Info	:	OP59984,SQ608,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.563	415.0 -> 370.0	33159	20.000	µg/L		0.026
d3-MeFOSAA	7.199	573.0 -> 419.0	12242	40.000	µg/L		0.013
13C4-PFOS	7.202	503.0 -> 80.0	18268	20.000	µg/L		0.013
13C2-PFDoDA	11.300	615.0 -> 570.0	10306	20.000	µg/L		-0.012
System Monitoring Compounds							
13C2-PFHxA	5.017	315.0 -> 270.0	9153	21.45	µg/L		0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 107.24%				
d5-EtFOSAA	7.333	589.0 -> 419.0	118	0.00	µg/L		0.038
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.522	515.0 -> 470.0	14757	14.48	µg/L		0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 72.38%				
Target Compounds							**Qvalue**
PFOA	6.552	413.0 -> 369.0	469	0.304	µg/L	#	70
MeFOSAA	7.200	570.0 -> 419.0	107	0.000	µg/L		100
EtFOSAA	7.360	584.0 -> 419.0	159	0.000	µg/L		100
PFOS	7.528	499.0 -> 80.0	522	0.553	µg/L		35

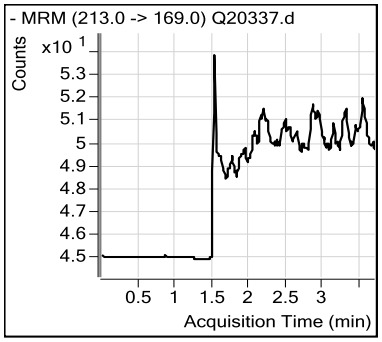
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

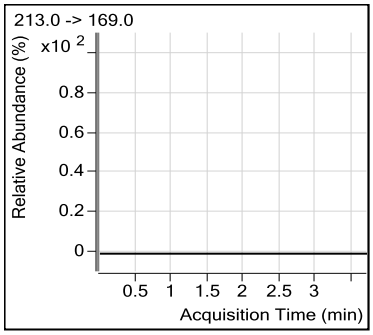
Perfluorinated Compounds by LC/MS/MS.

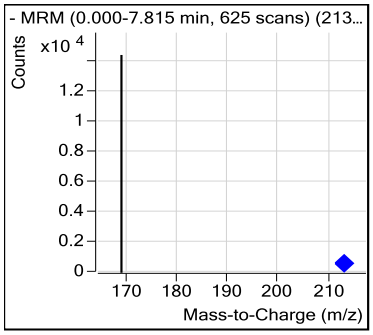
Data File	:	Q20337.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 23:13
Sample Name	:	FA32826-12
Vial	:	Vial 29
Sample Info	:	OP59984,SQ608,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



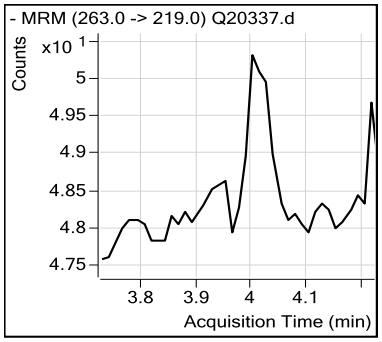
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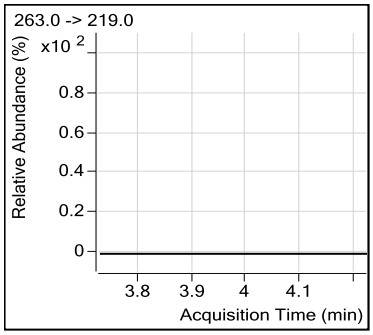


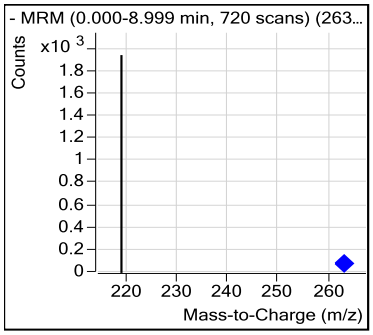




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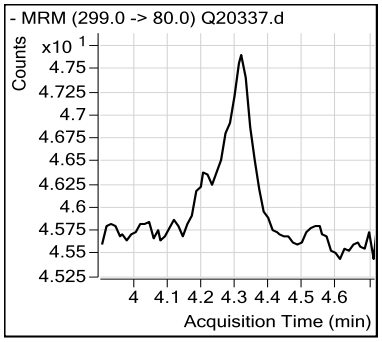


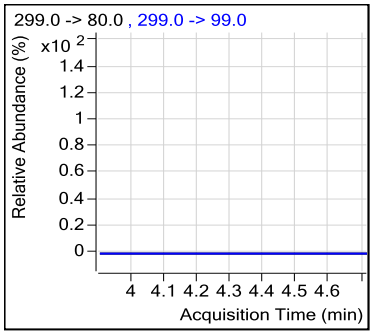


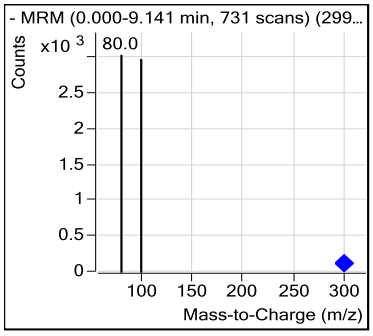


Perfluorinated Compounds by LC/MS/MS.

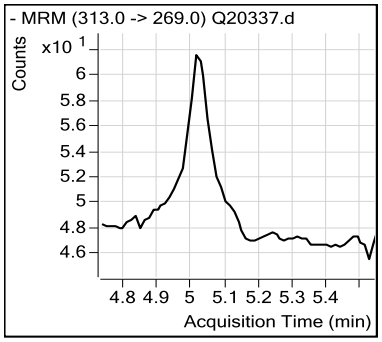
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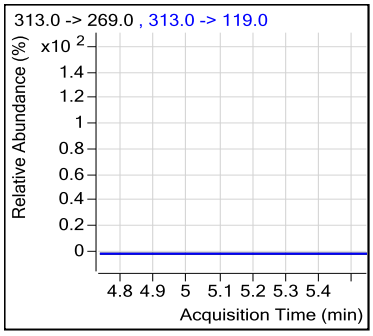


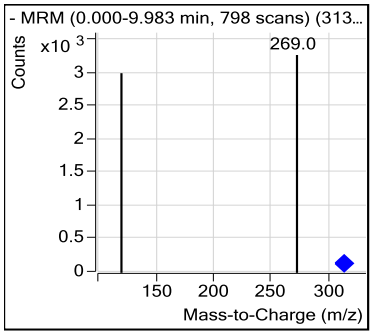




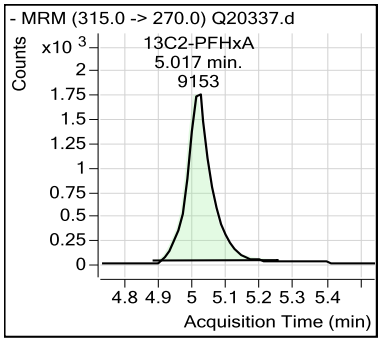
PFHxA

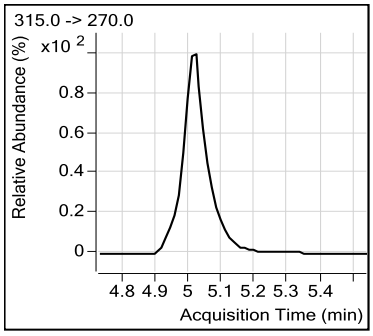


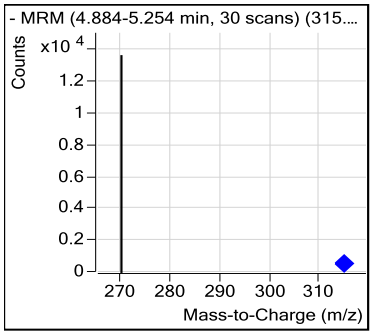




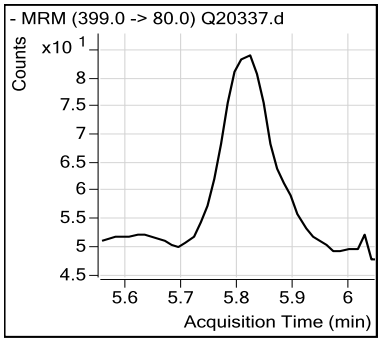
13C2-PFHxA

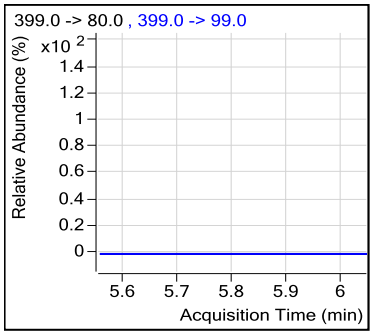


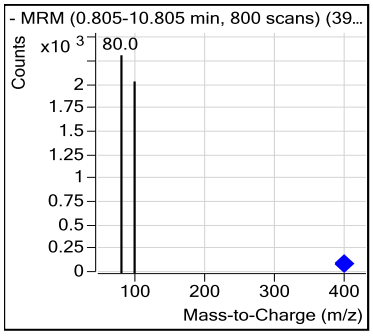




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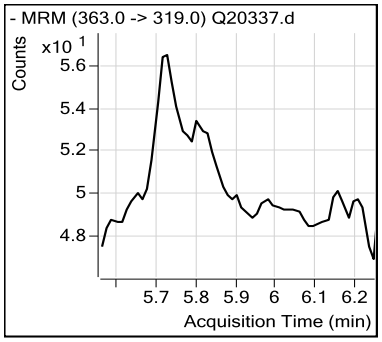


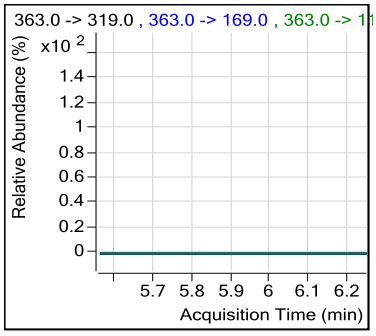


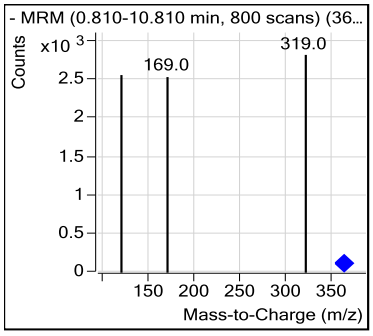


Perfluorinated Compounds by LC/MS/MS.

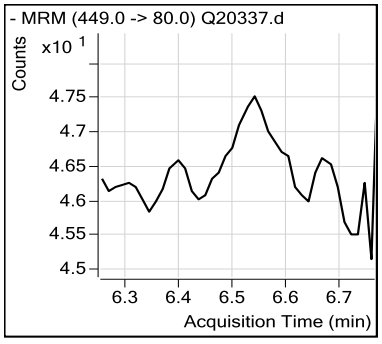
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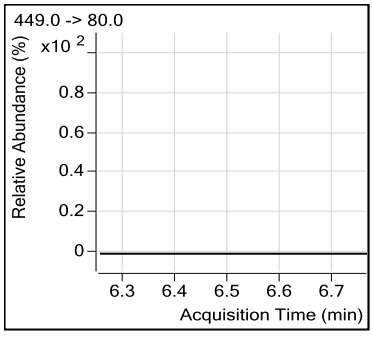


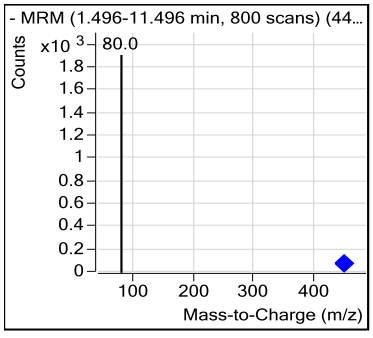




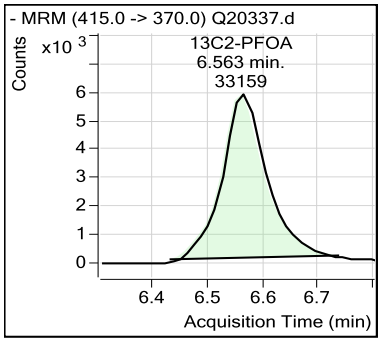
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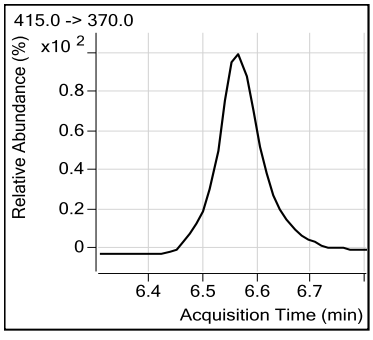


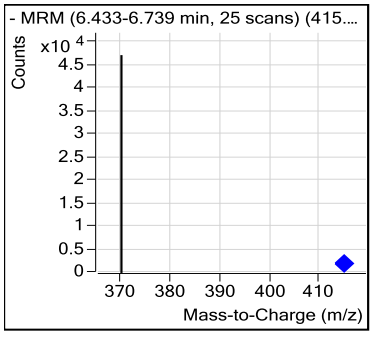




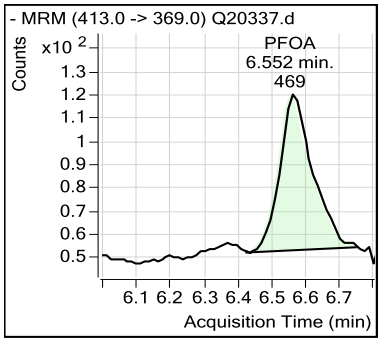
13C2-PFOA

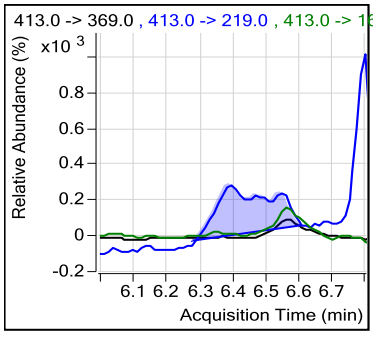


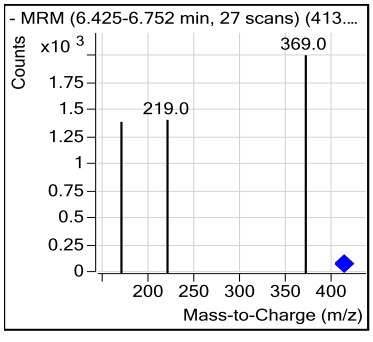




PFOA





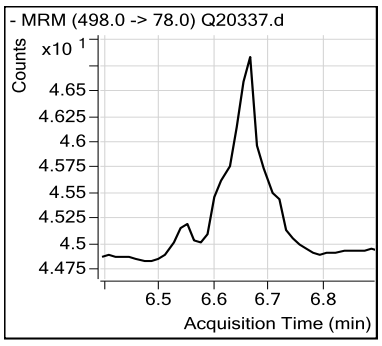


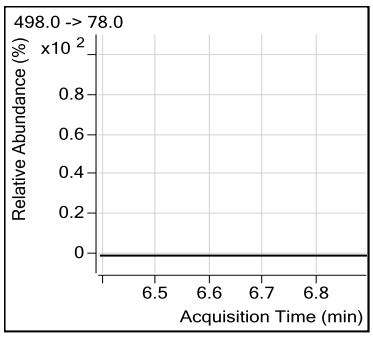
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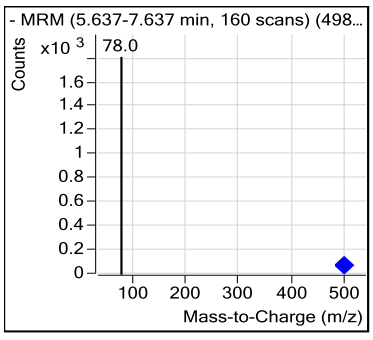
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Perfluorinated Compounds by LC/MS/MS.

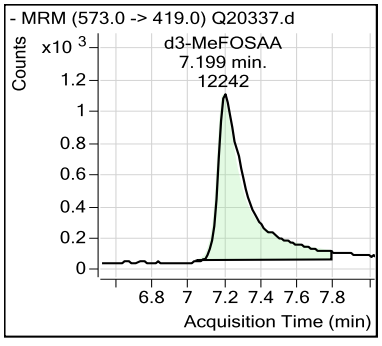
PFOSA

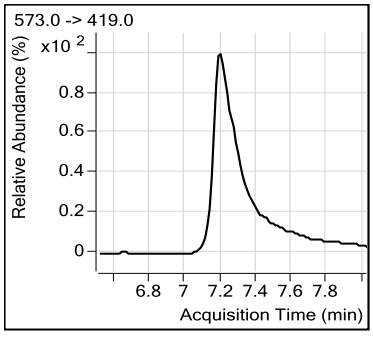


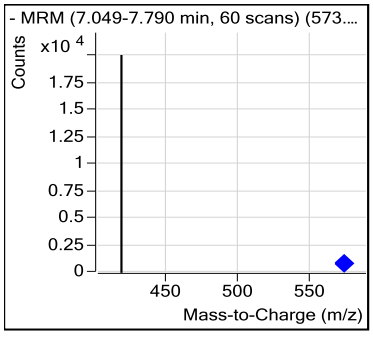




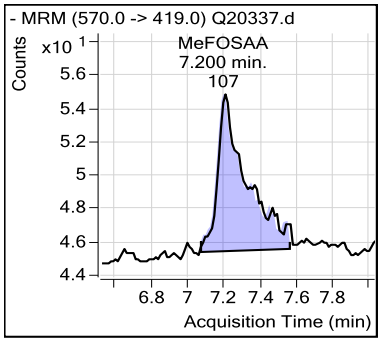
d3-MeFOSAA

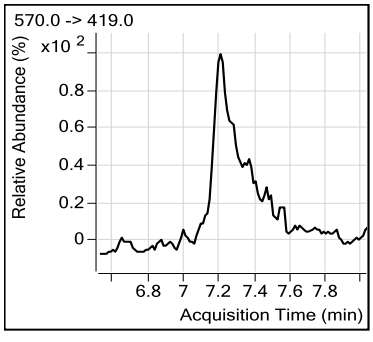


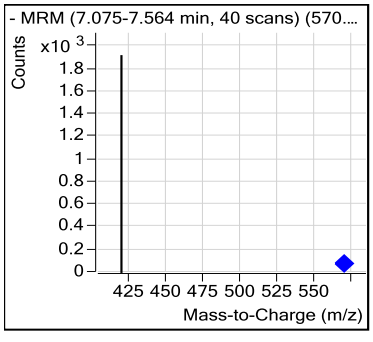




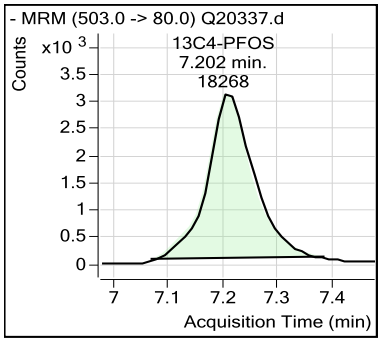
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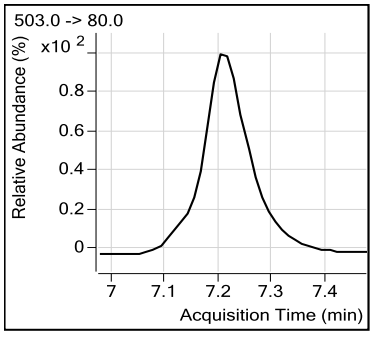


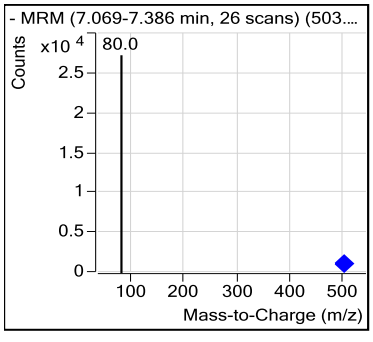




13C4-PFOS

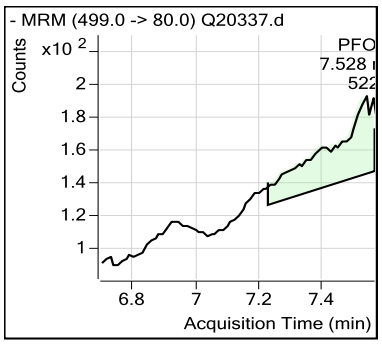


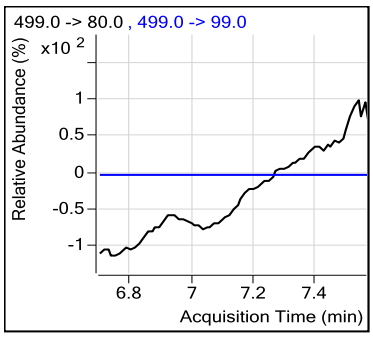


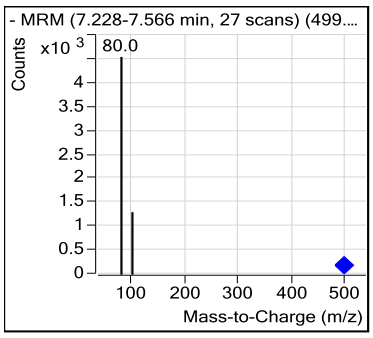


Perfluorinated Compounds by LC/MS/MS.

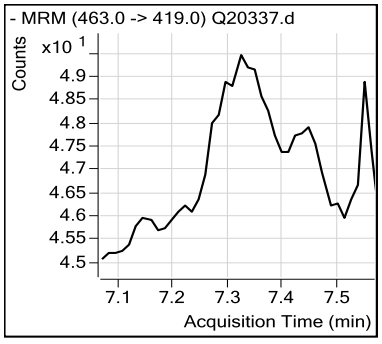
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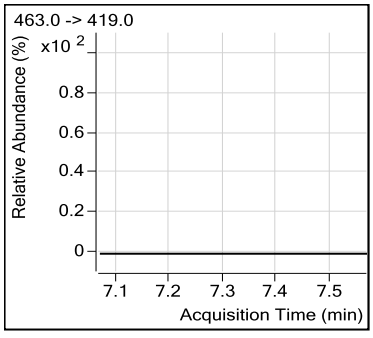


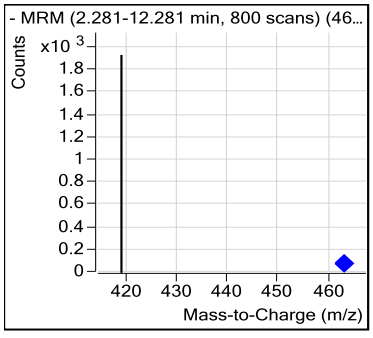




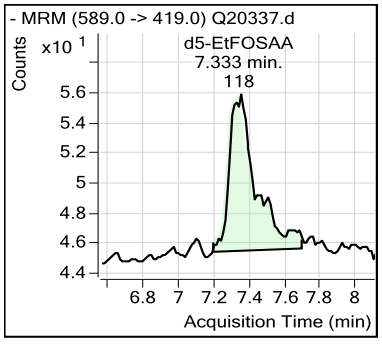
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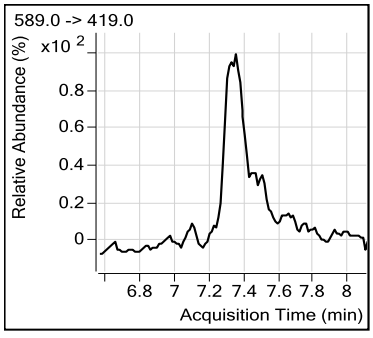


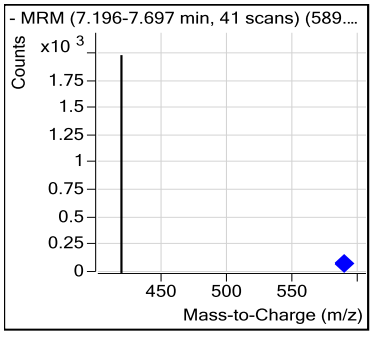




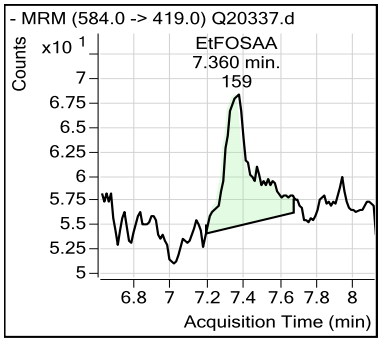
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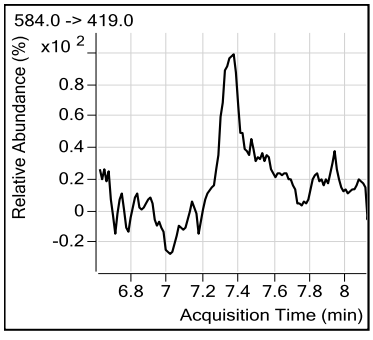


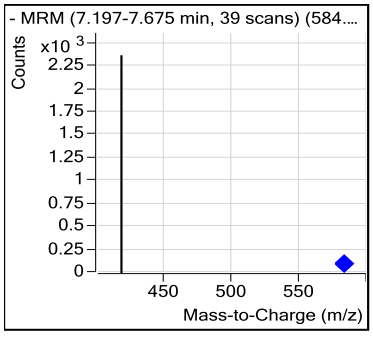




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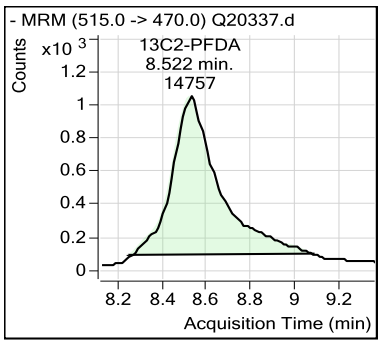


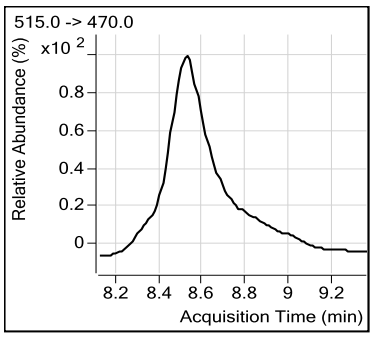


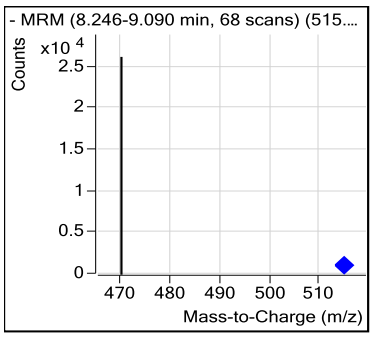


Perfluorinated Compounds by LC/MS/MS.

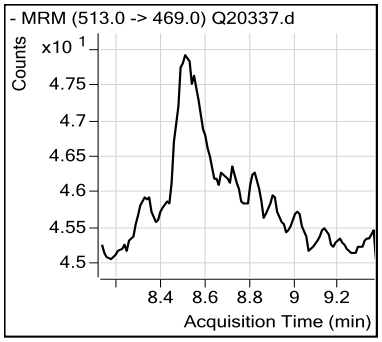
13C2-PFDA

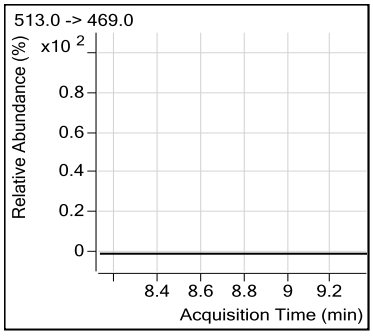


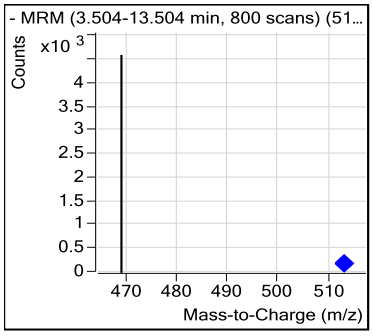




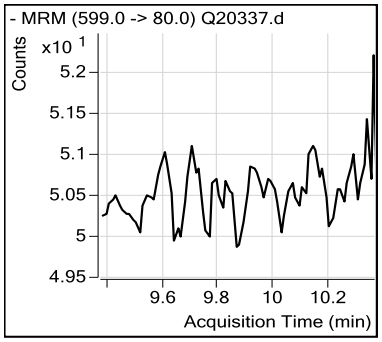
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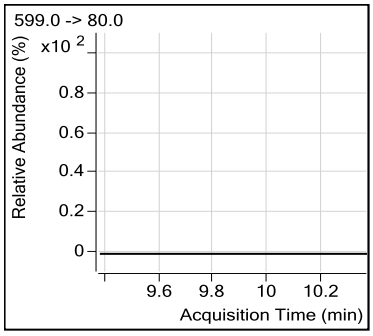


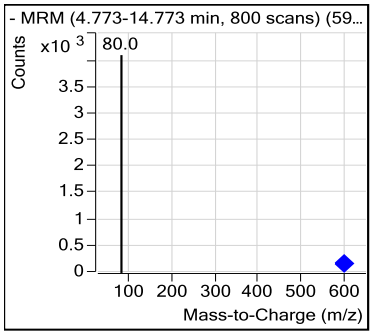




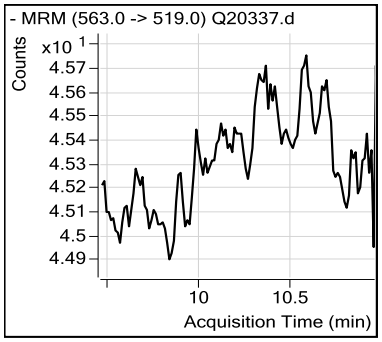
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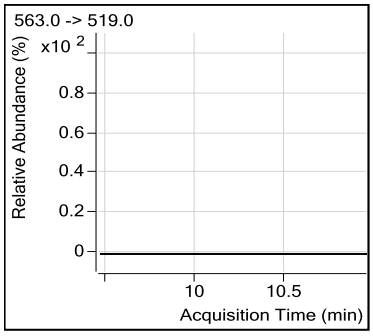


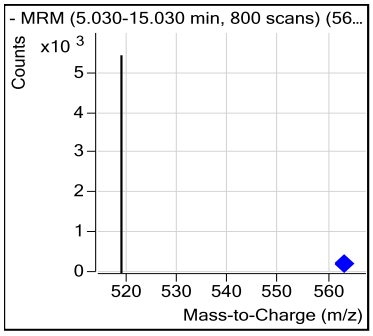




PFUnDA

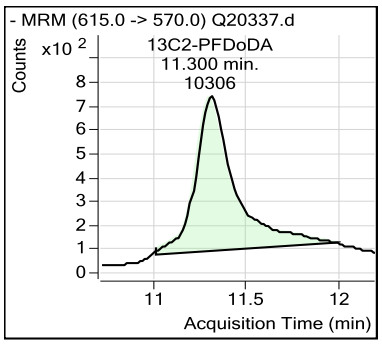


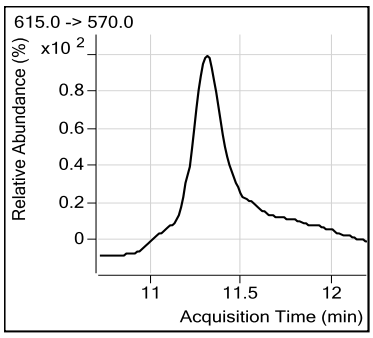


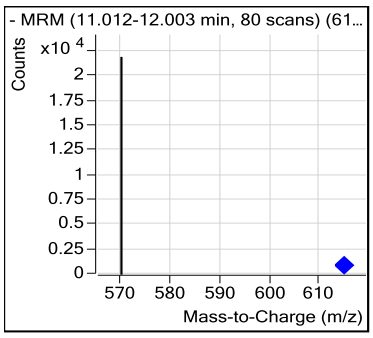


Perfluorinated Compounds by LC/MS/MS.

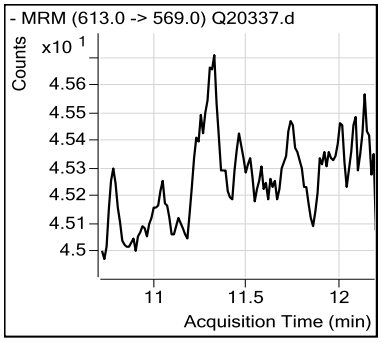
13C2-PFDoDA

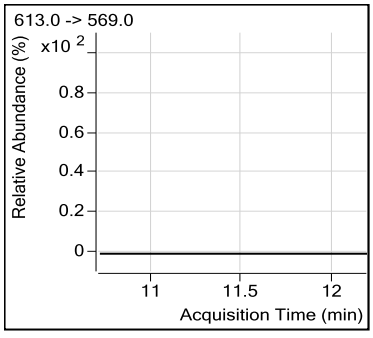


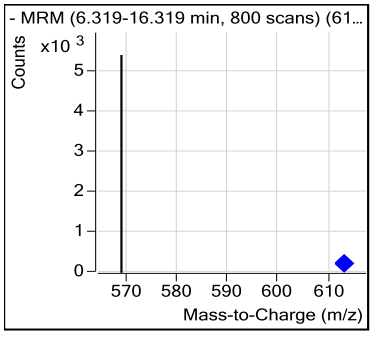




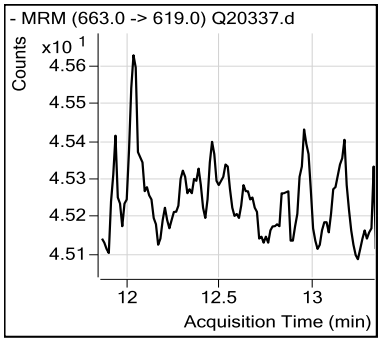
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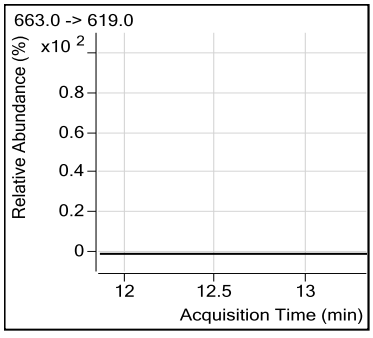


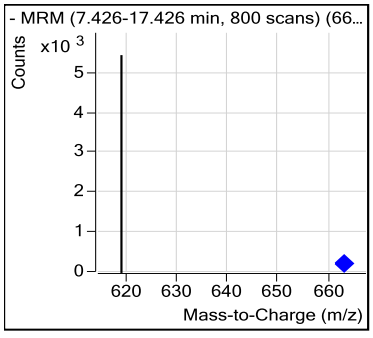




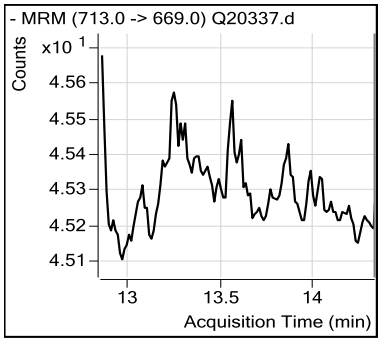
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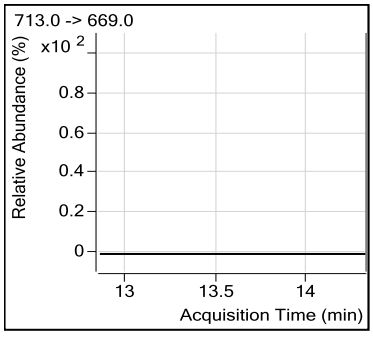


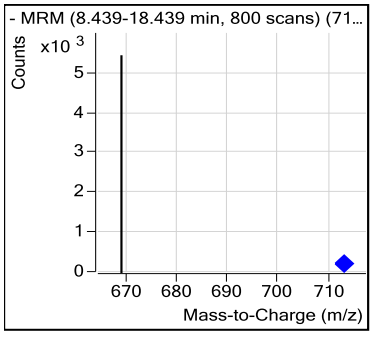




PFTeDA







Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20338.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 23:34
Sample Name	:	FA32826-13
Vial	:	Vial 30
Sample Info	:	OP59984,SQ608,120,,,1.0,2,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.525	415.0 -> 370.0	18285	20.000	µg/L		-0.012
d3-MeFOSAA	7.186	573.0 -> 419.0	11571	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	15720	20.000	µg/L		-0.012
13C2-PFDoDA	11.250	615.0 -> 570.0	8816	20.000	µg/L		-0.062
System Monitoring Compounds							
13C2-PFHxA	4.979	315.0 -> 270.0	1778	7.56	µg/L		-0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 37.78%				
d5-EtFOSAA	7.321	589.0 -> 419.0	98	0.00	µg/L		0.025
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.422	515.0 -> 470.0	5873	10.45	µg/L		-0.075
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 52.24%				
Target Compounds							**Qvalue**
PFBA	3.277	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	4.036	263.0 -> 219.0	239	2.818	µg/L		100
PFBS	4.141	299.0 -> 80.0	932	3.514	µg/L	#	42
PFHxA	4.983	313.0 -> 269.0	722	3.076	µg/L		97
PFHxS	5.793	399.0 -> 80.0	5719	12.354	µg/L	m	84
PFHpA	5.798	363.0 -> 319.0	486	1.114	µg/L	m	75
PFHpS	6.483	449.0 -> 80.0	351	0.697	µg/L		100
PFOA	6.527	413.0 -> 369.0	18699	21.977	µg/L	m	75
PFOS	7.178	499.0 -> 80.0	25136	30.964	µg/L	m	98
MeFOSAA	7.200	570.0 -> 419.0	70	0.000	µg/L		100
EtFOSAA	7.322	584.0 -> 419.0	855	0.000	µg/L		100

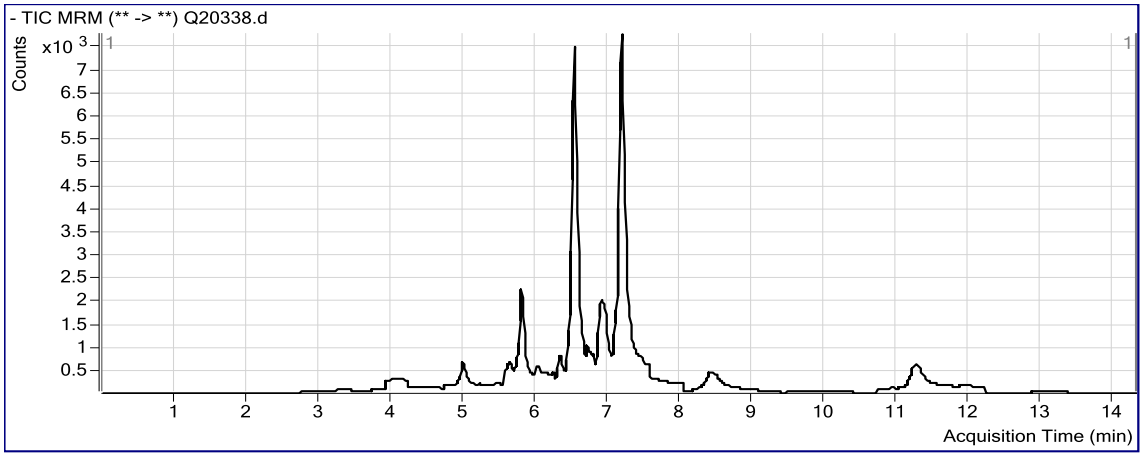
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

7.1.22

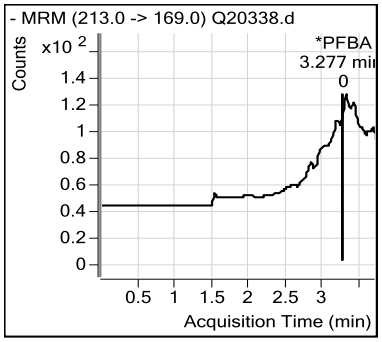
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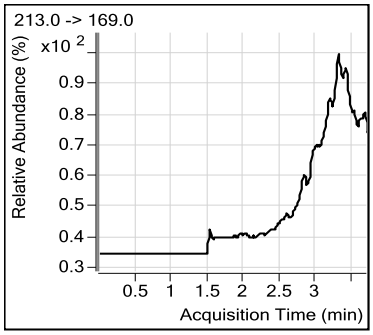
Perfluorinated Compounds by LC/MS/MS.

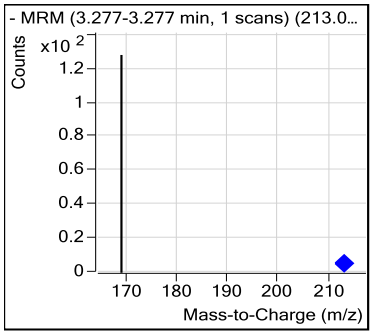
Data File	:	Q20338.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 23:34
Sample Name	:	FA32826-13
Vial	:	Vial 30
Sample Info	:	OP59984,SQ608,120,,,1.0,2,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



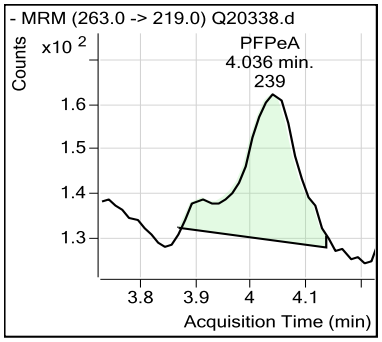
PFBA

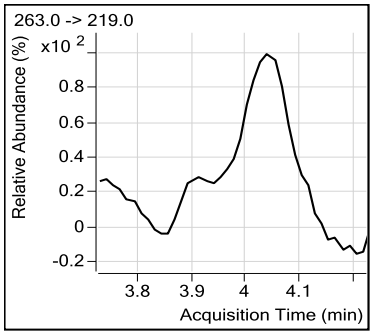


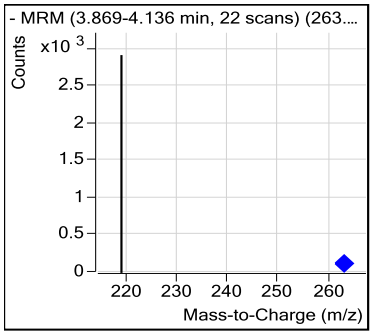




PFPeA

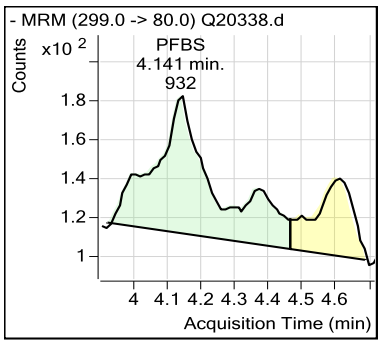


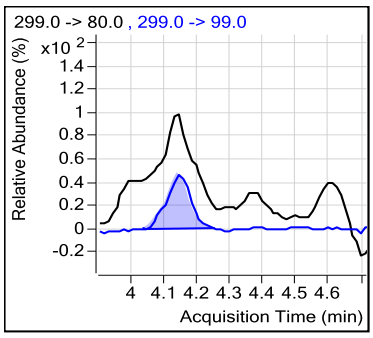


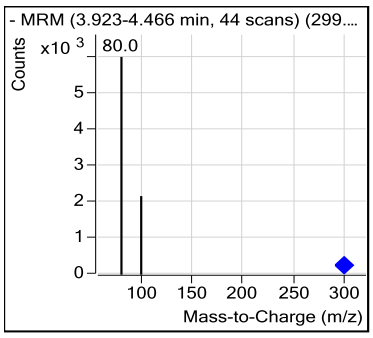


Perfluorinated Compounds by LC/MS/MS.

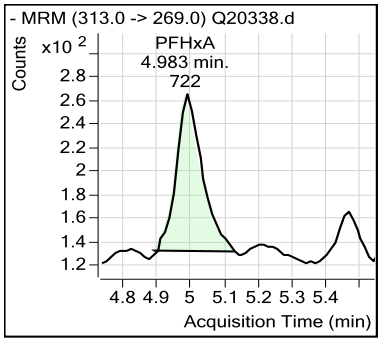
PFBS

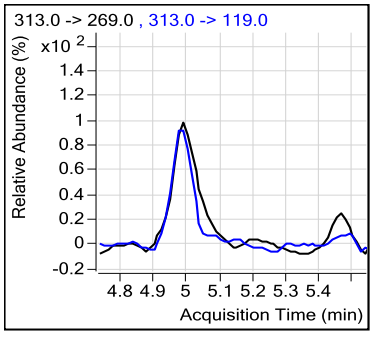


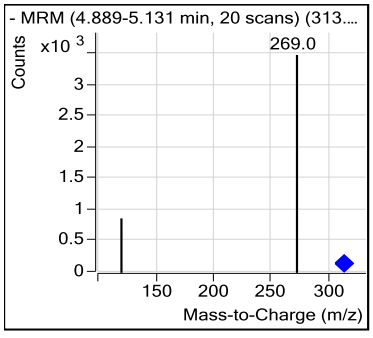




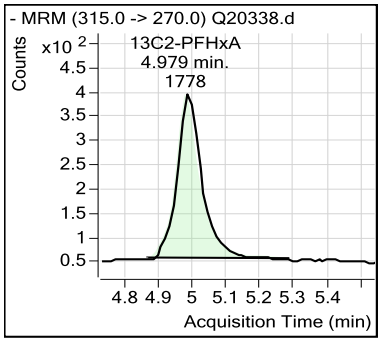
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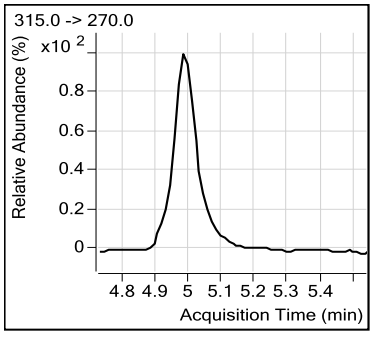


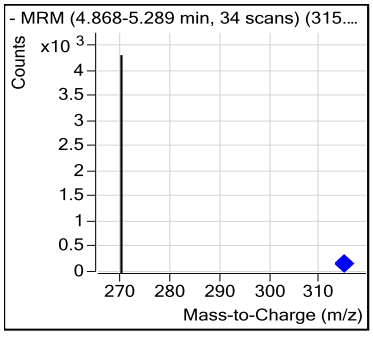




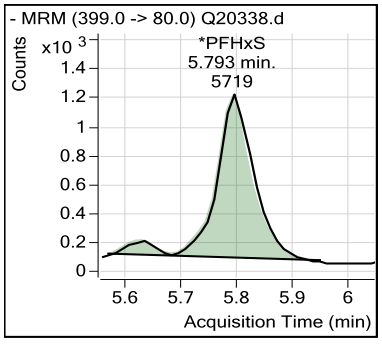
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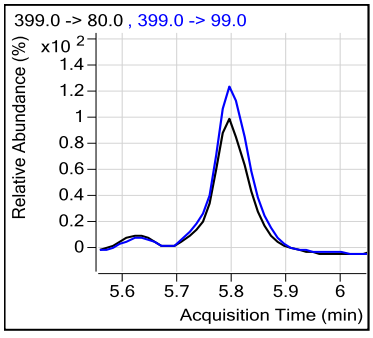


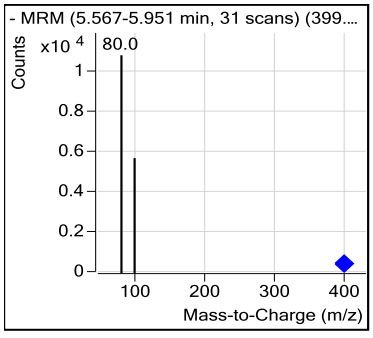




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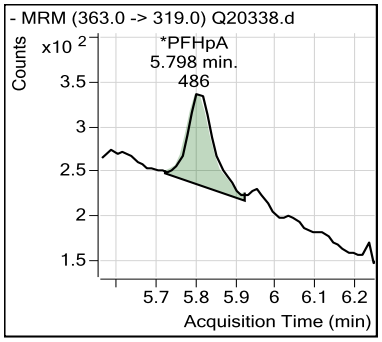


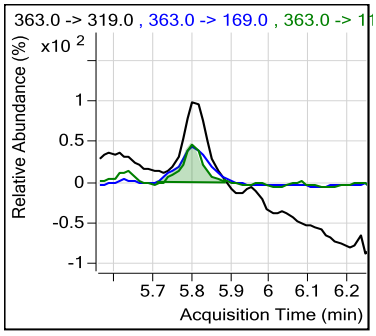


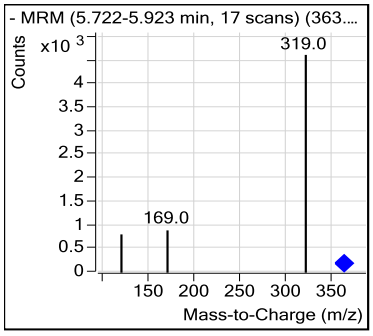


Perfluorinated Compounds by LC/MS/MS.

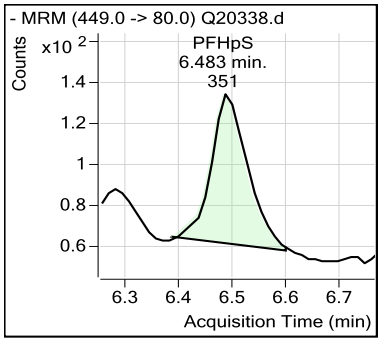
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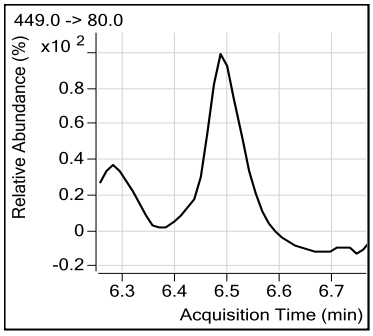


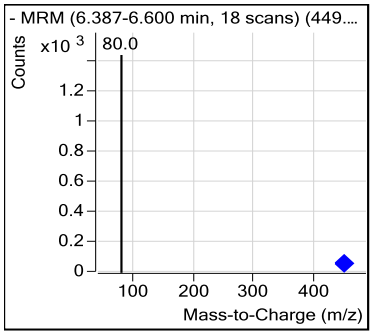




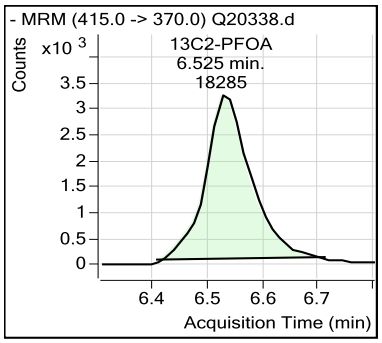
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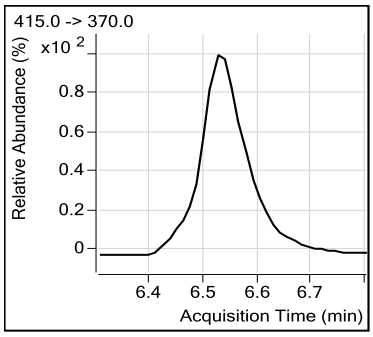


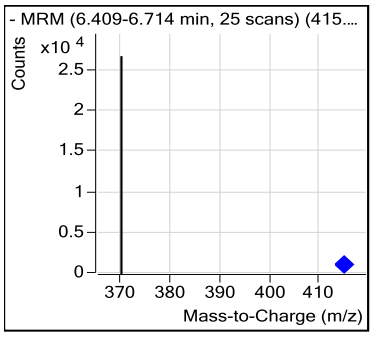




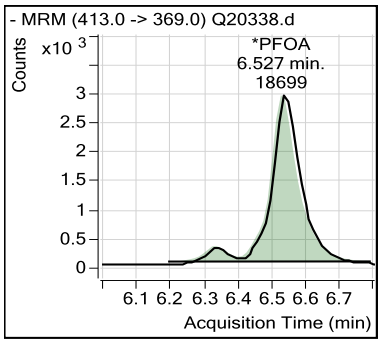
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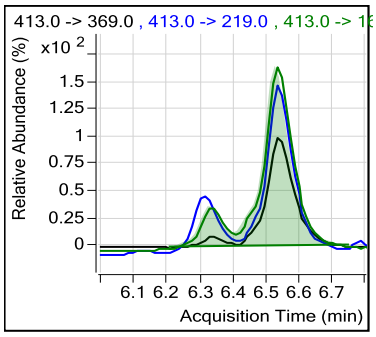


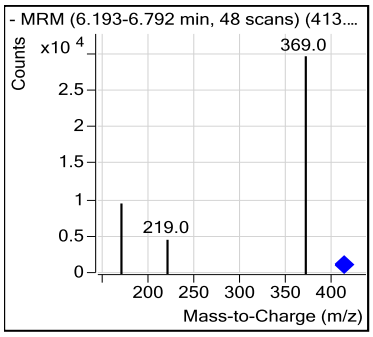




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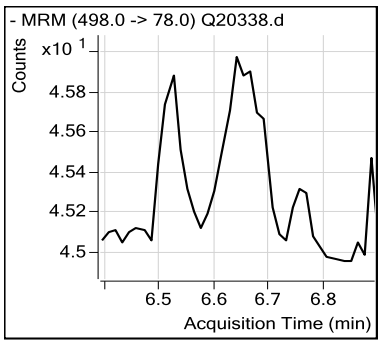


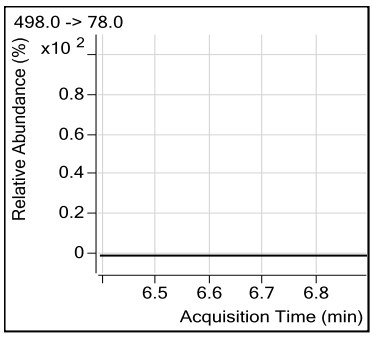
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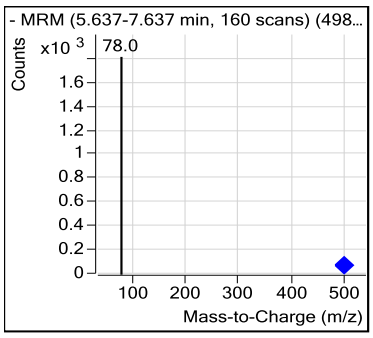
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Perfluorinated Compounds by LC/MS/MS.

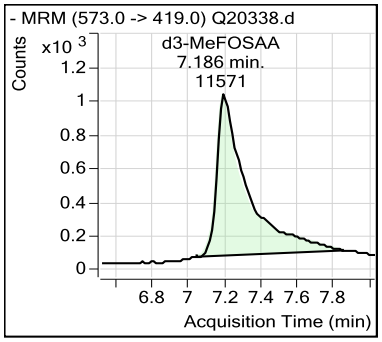
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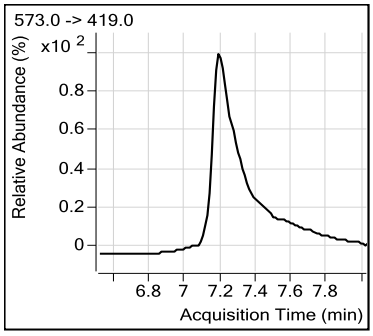


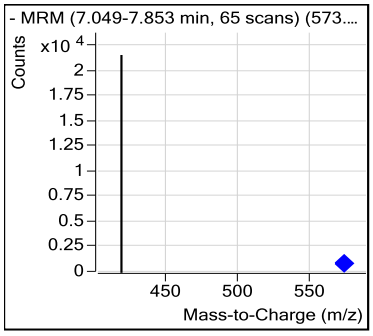




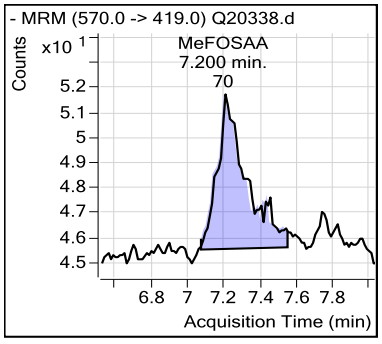
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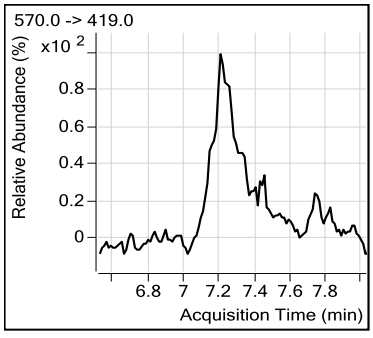


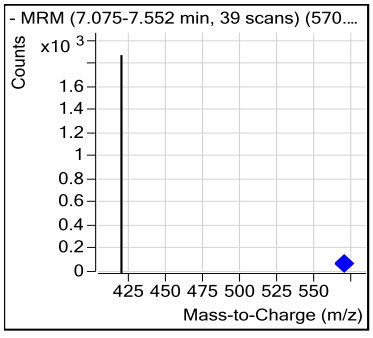




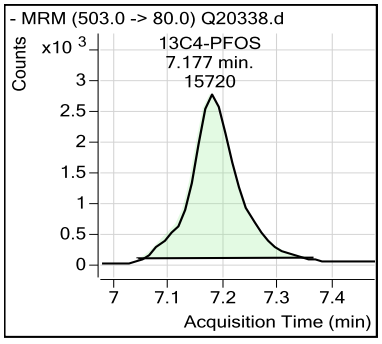
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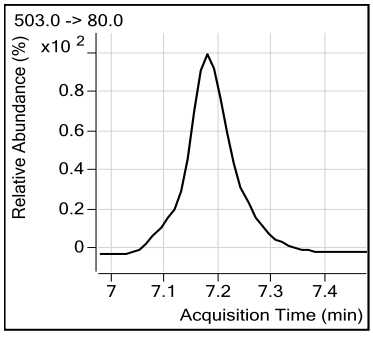


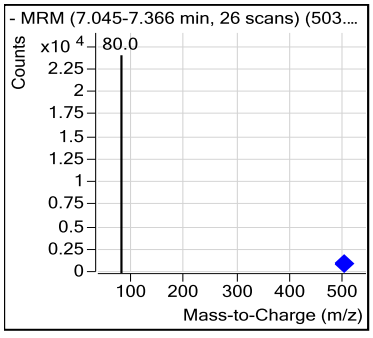




13C4-PFOS

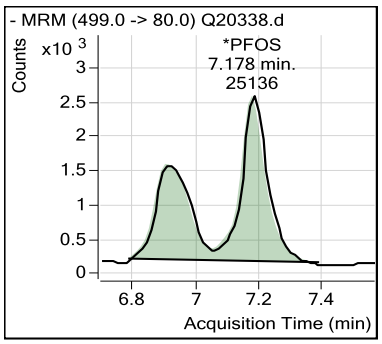


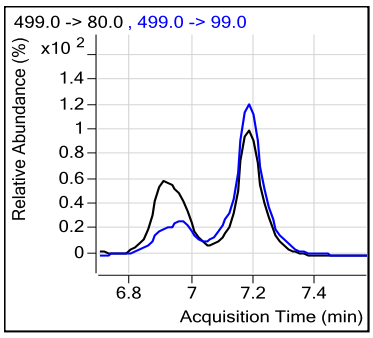


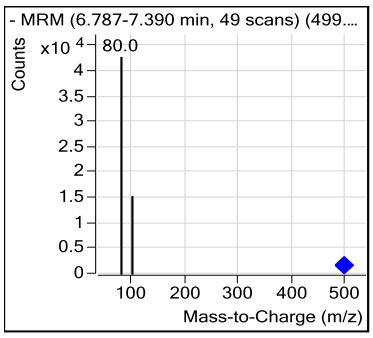


Perfluorinated Compounds by LC/MS/MS.

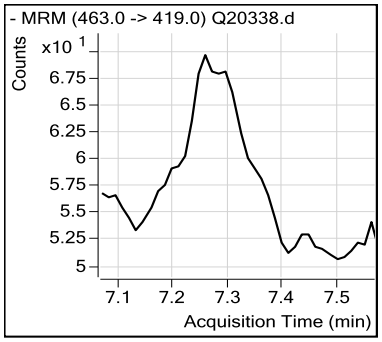
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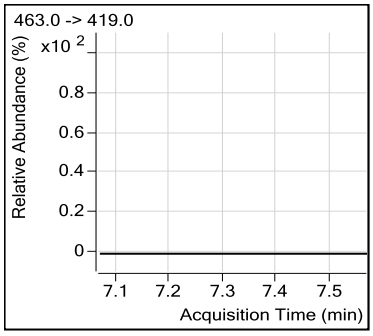


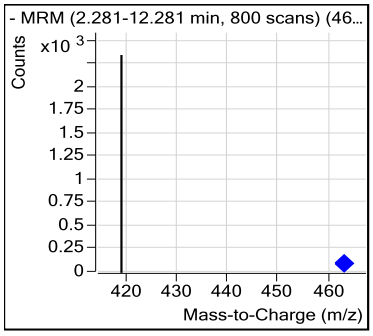




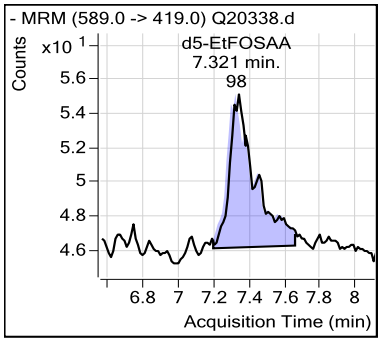
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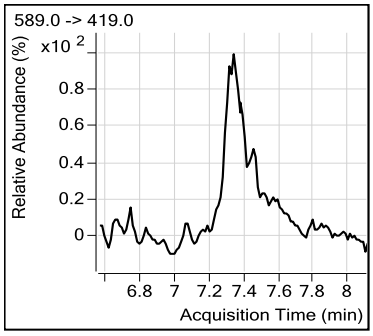


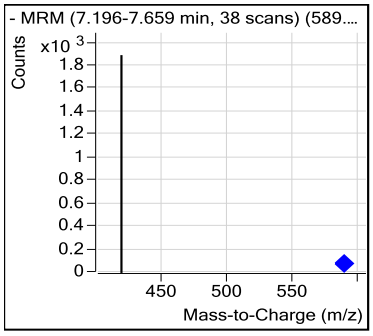




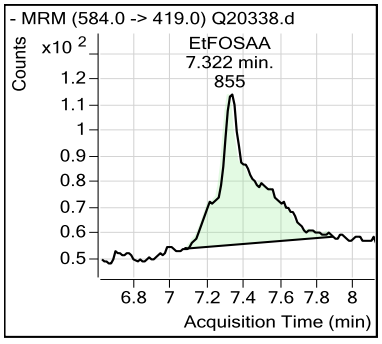
d5-EtFOSAA

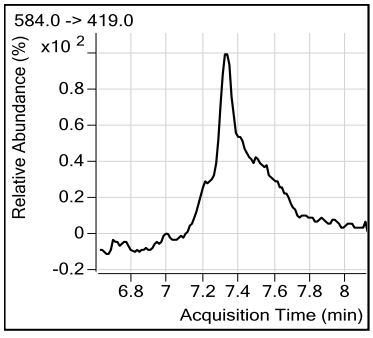


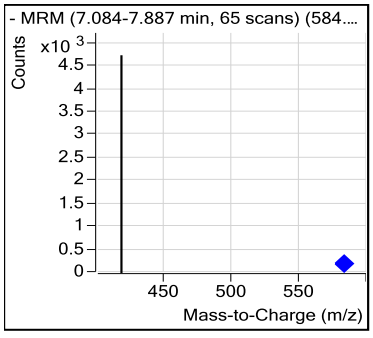




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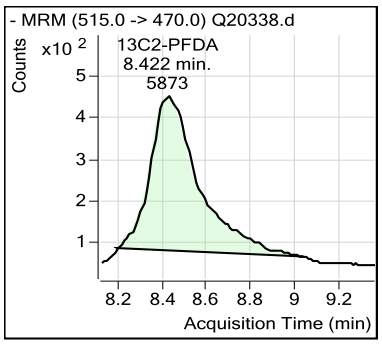


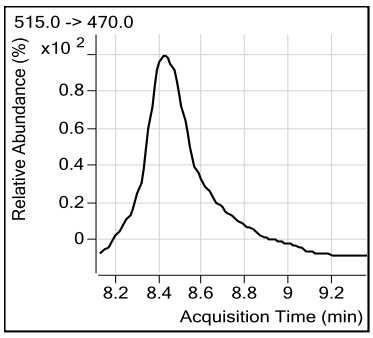


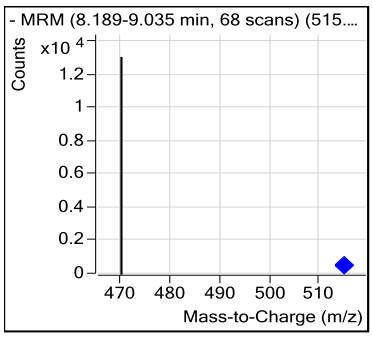


Perfluorinated Compounds by LC/MS/MS.

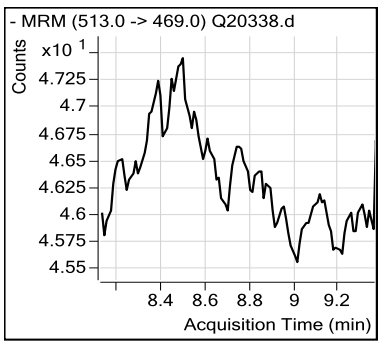
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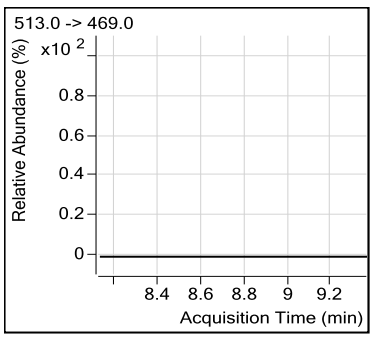


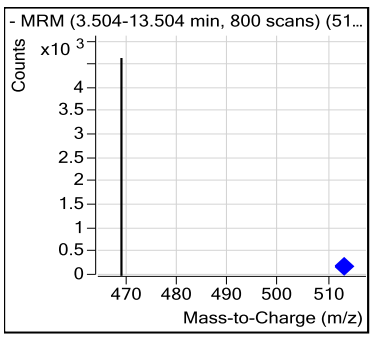




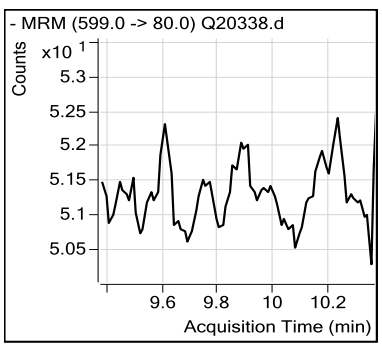
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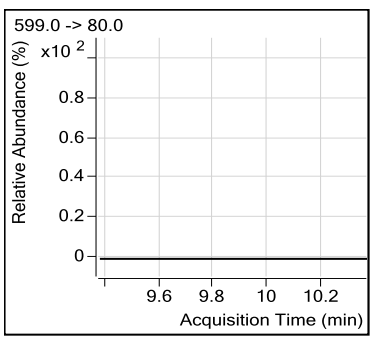


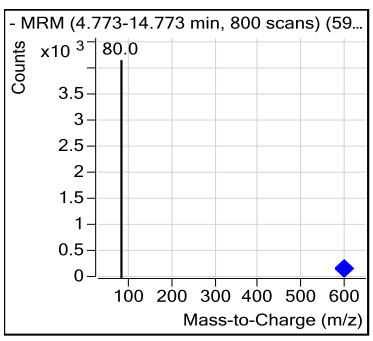




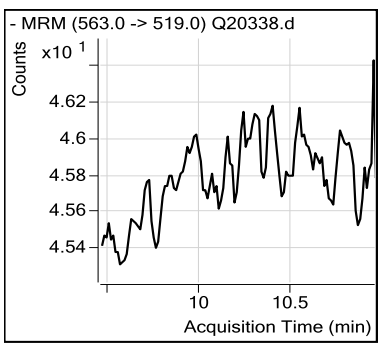
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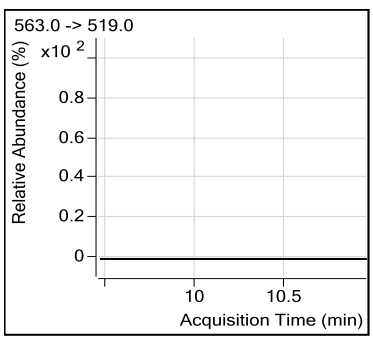


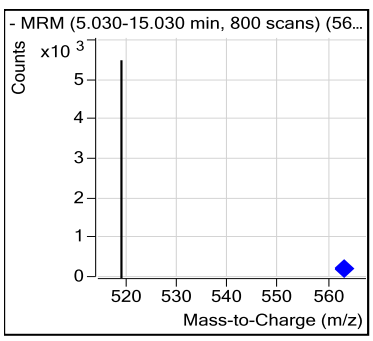




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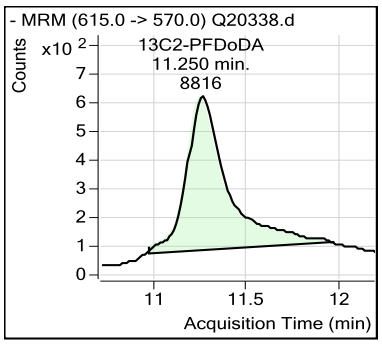


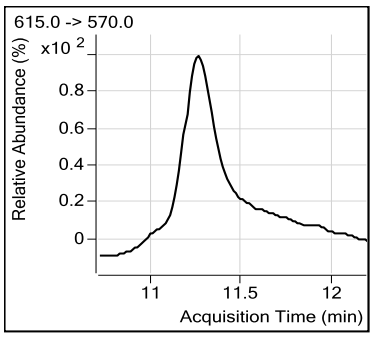


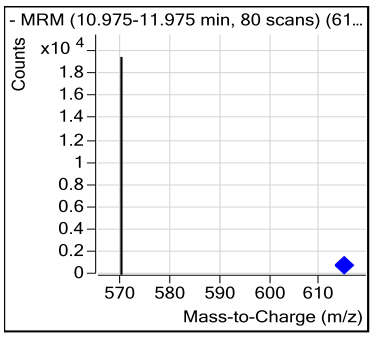


Perfluorinated Compounds by LC/MS/MS.

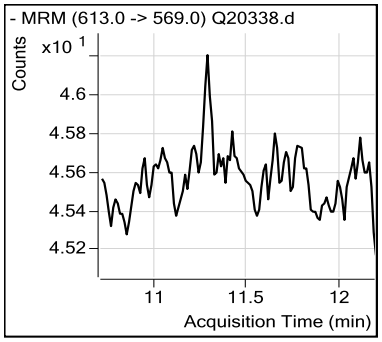
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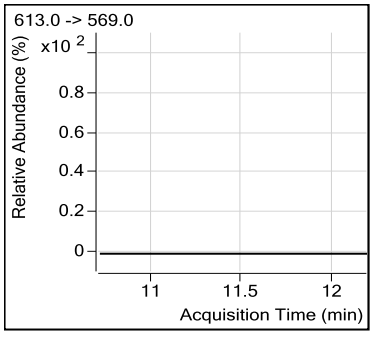


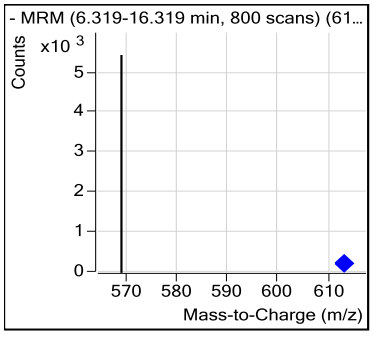




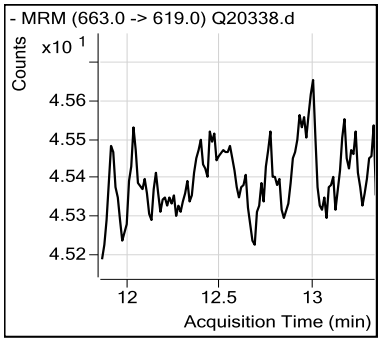
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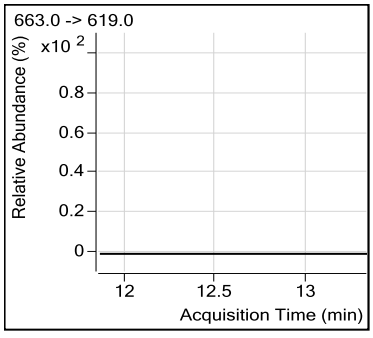


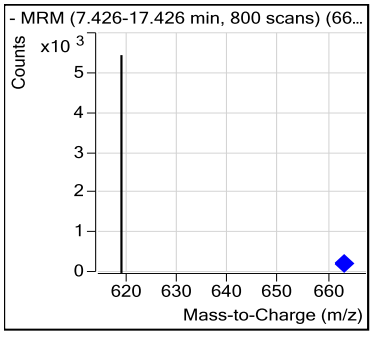




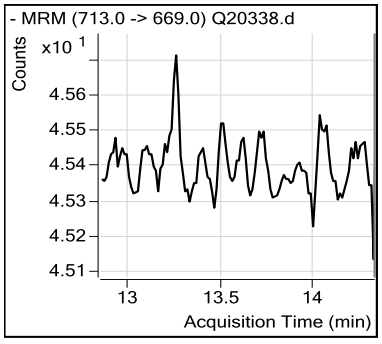
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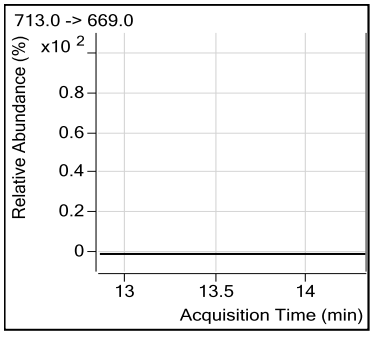


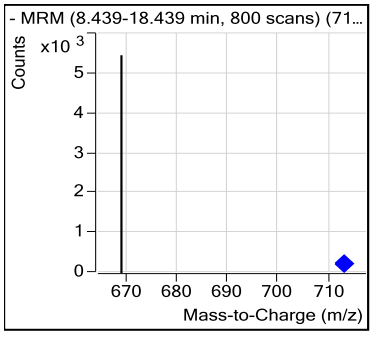




PFTeDA







Manual Integration Approval Summary

Sample Number: FA32826-13
Lab FileID: Q20338.D
Injection Time: 04/13/16 23:34
Method: EPA 537 MOD
Analyst approved: 04/14/16 13:33 Nancy Saunders
Supervisor approved: 04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluoroheptanoic acid	375-85-9		5.80	Split peak
Perfluorooctanoic acid	335-67-1		6.53	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.18	Split peak

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20280.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 01:27
Sample Name	:	OP59984-MB
Vial	:	Vial 29
Sample Info	:	OP59984,SQ607,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

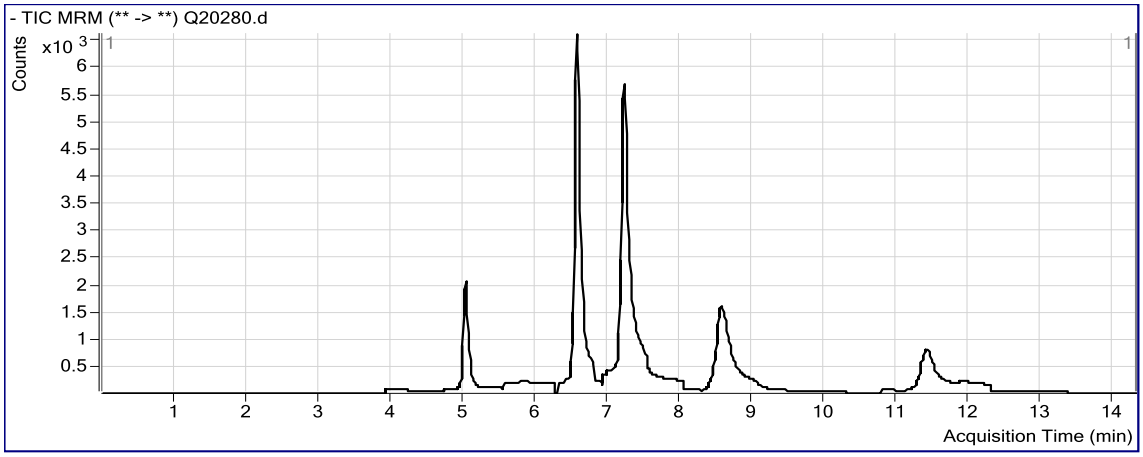
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.563	415.0 -> 370.0	33110	20.000	µg/L		0.026
d3-MeFOSAA	7.198	573.0 -> 419.0	12418	40.000	µg/L		0.013
13C4-PFOS	7.214	503.0 -> 80.0	21677	20.000	µg/L		0.025
13C2-PFDoDA	11.387	615.0 -> 570.0	11287	20.000	µg/L		0.075
System Monitoring Compounds							
13C2-PFHxA	5.017	315.0 -> 270.0	9898	23.23	µg/L		0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 116.13%				
d5-EtFOSAA	7.296	589.0 -> 419.0	1258	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.547	515.0 -> 470.0	21453	21.08	µg/L		0.050
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 105.38%				
Target Compounds							**Qvalue**
PFBA	2.827	213.0 -> 169.0	0	0.000	µg/L	m	1
MeFOSAA	7.200	570.0 -> 419.0	2552	5.078	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	2328	5.051	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

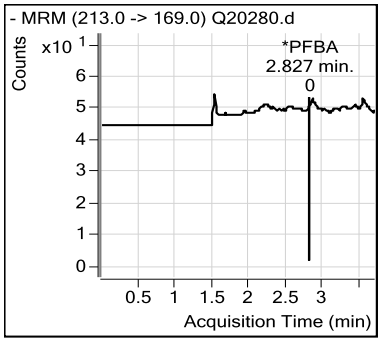
SGS ACCUTEST
FA32826

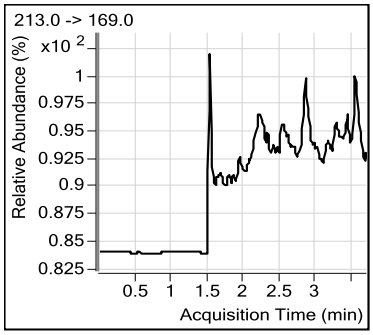
Perfluorinated Compounds by LC/MS/MS.

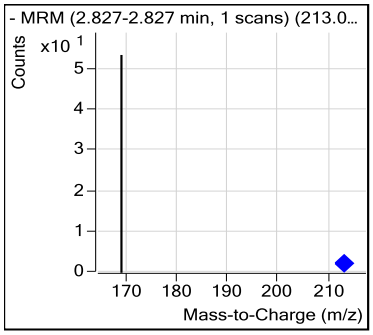
Data File	:	Q20280.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 01:27
Sample Name	:	OP59984-MB
Vial	:	Vial 29
Sample Info	:	OP59984,SQ607,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



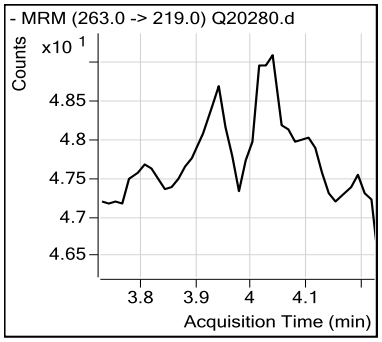
PFBA

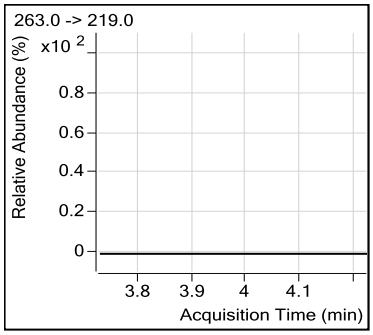


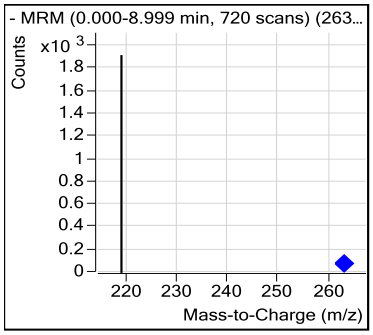




PFPeA

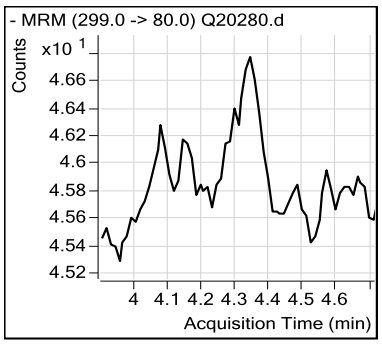


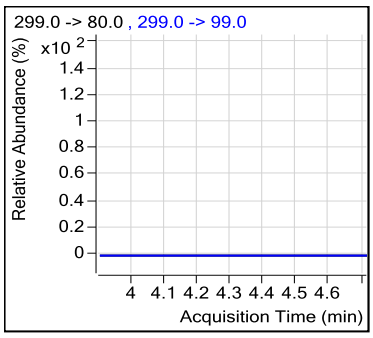


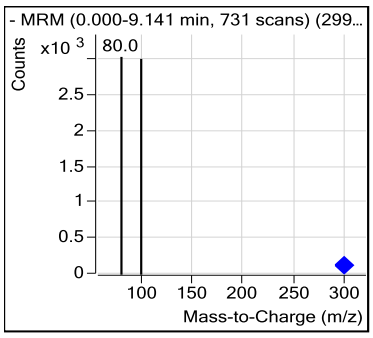


Perfluorinated Compounds by LC/MS/MS.

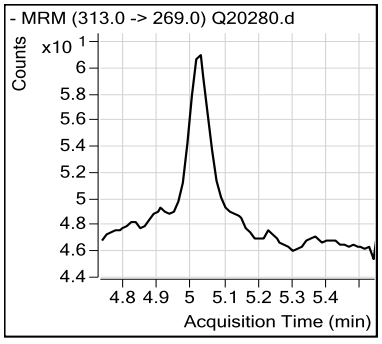
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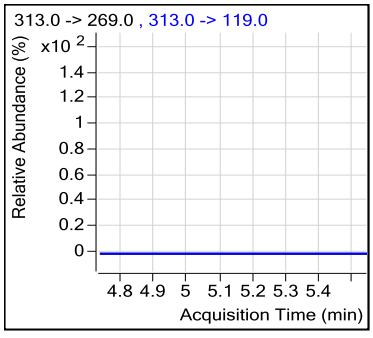


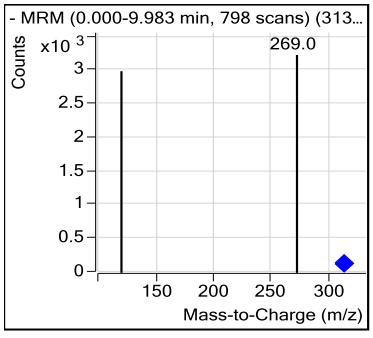




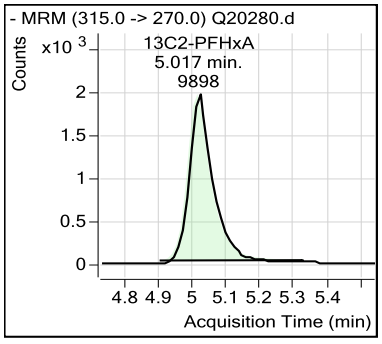
PFHxA

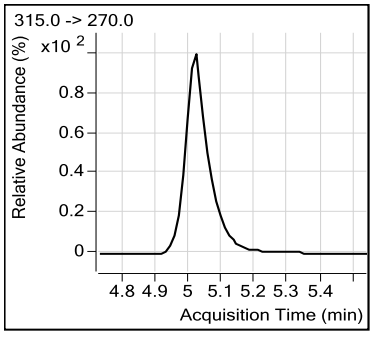


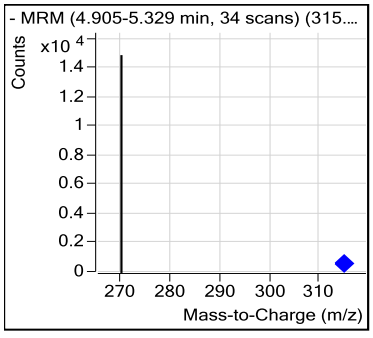




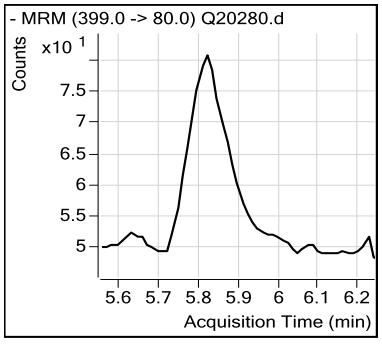
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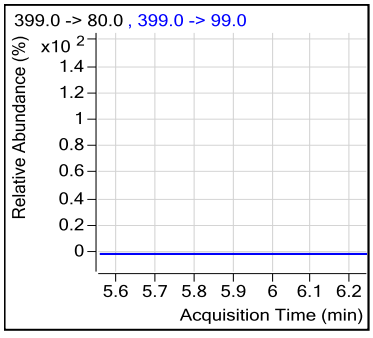


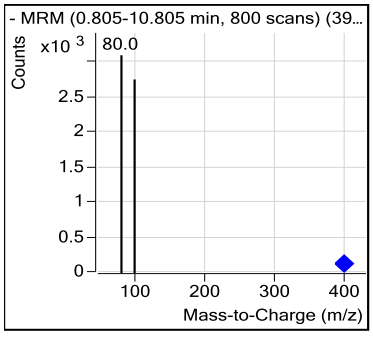




PFHxS





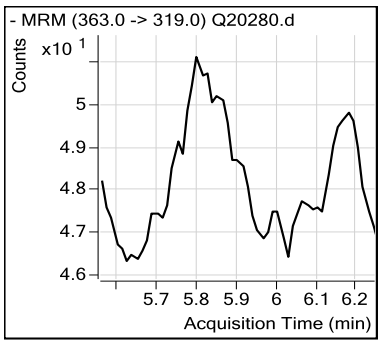


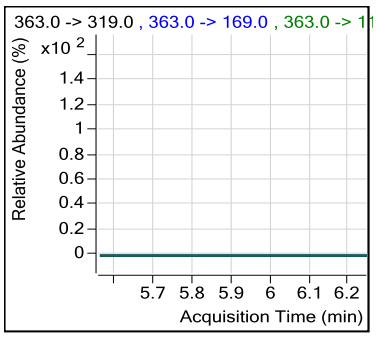
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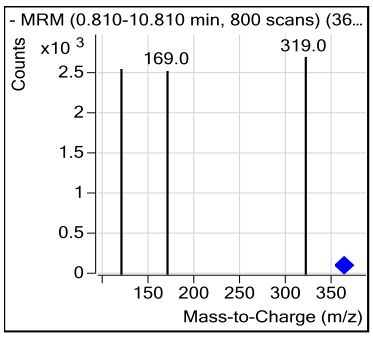
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Perfluorinated Compounds by LC/MS/MS.

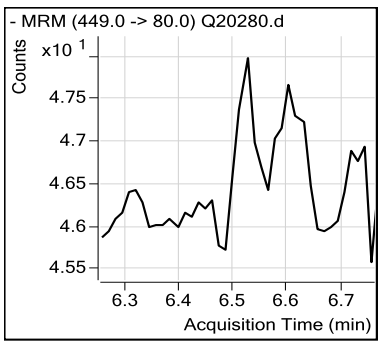
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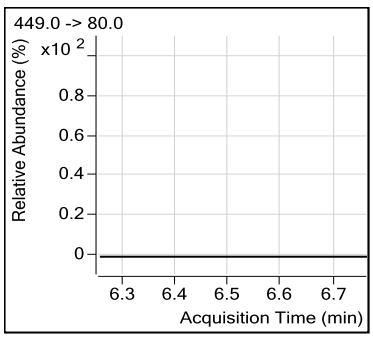


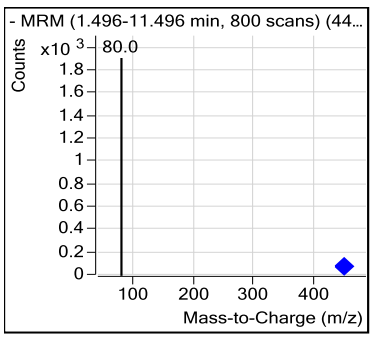




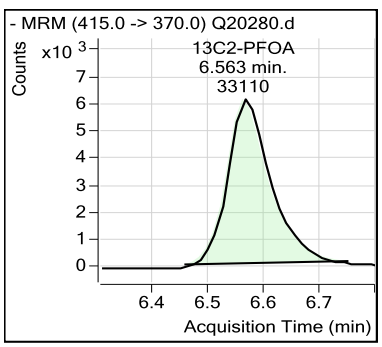
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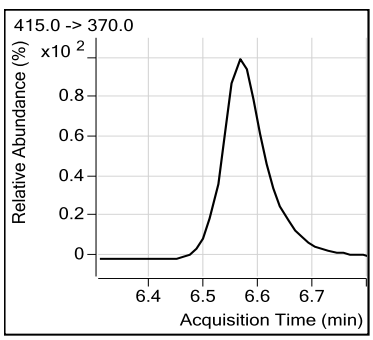


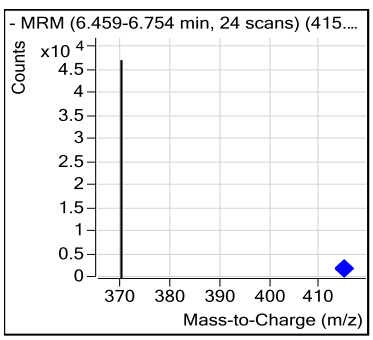




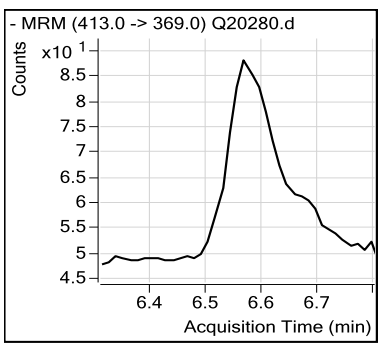
13C2-PFOA

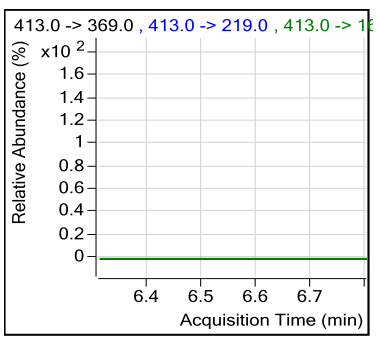


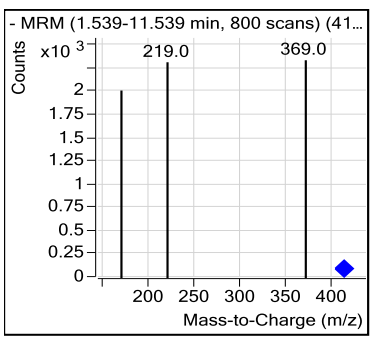




PFOA

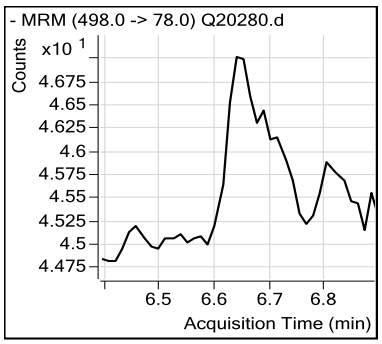


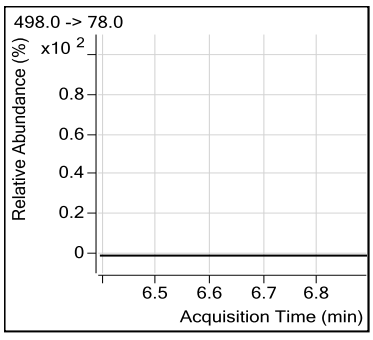


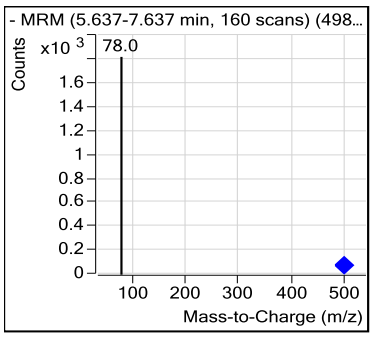


Perfluorinated Compounds by LC/MS/MS.

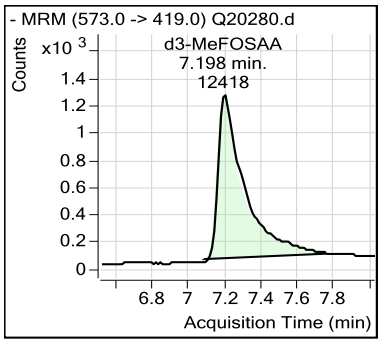
PFOSA

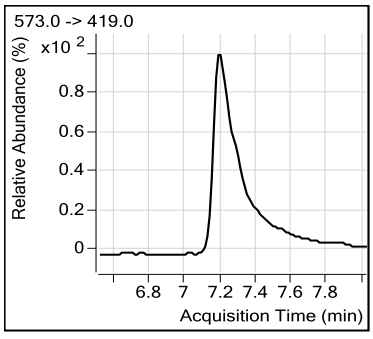


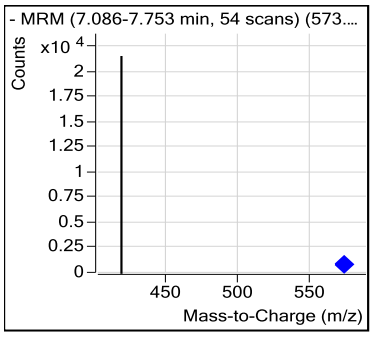




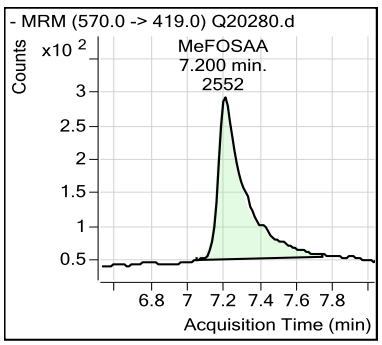
d3-MeFOSAA

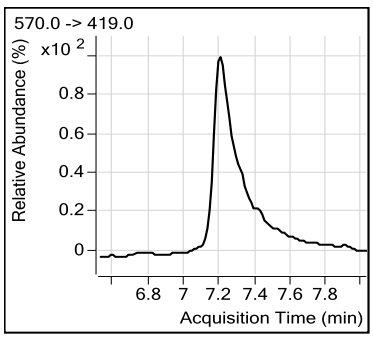


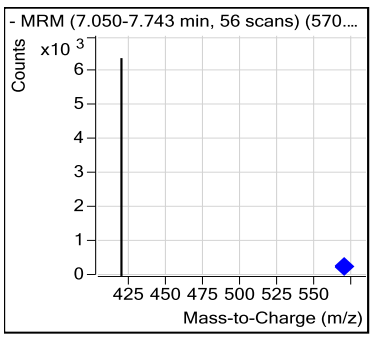




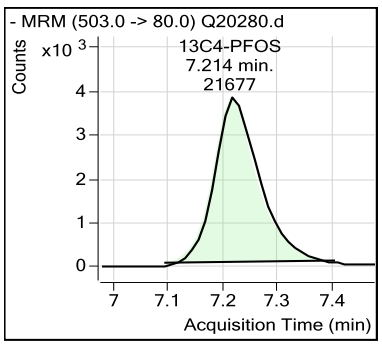
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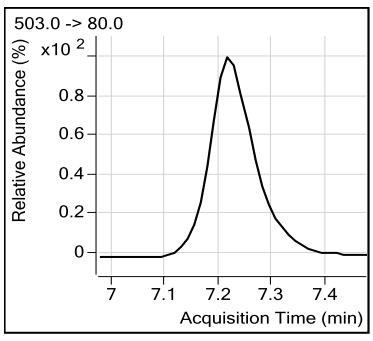


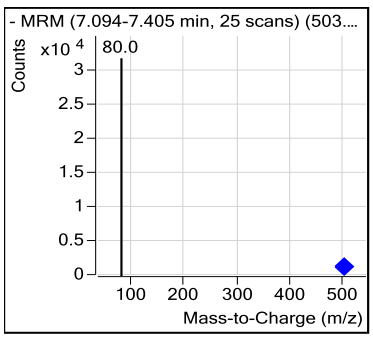




13C4-PFOS

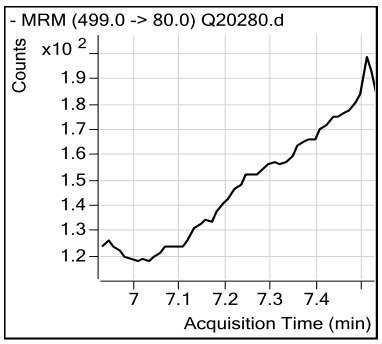


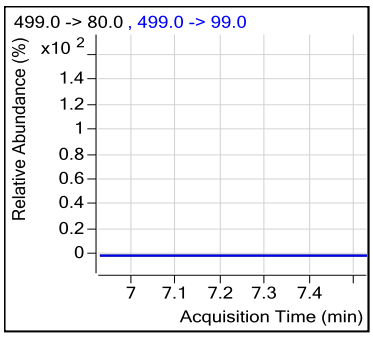


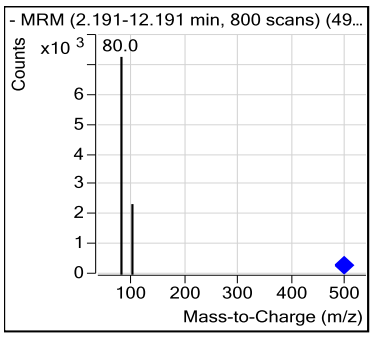


Perfluorinated Compounds by LC/MS/MS.

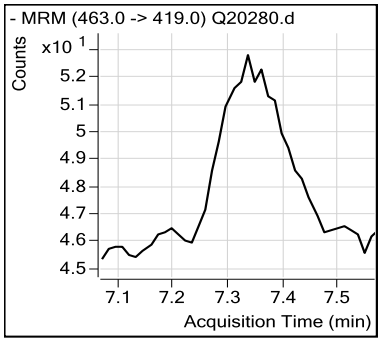
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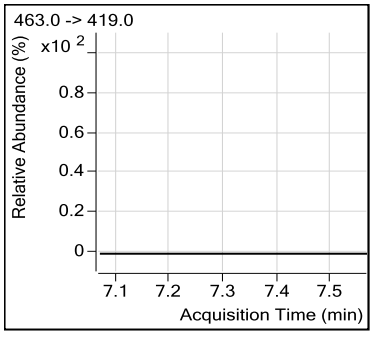


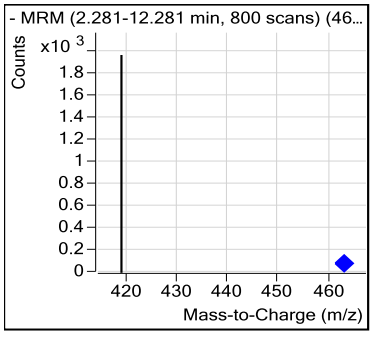




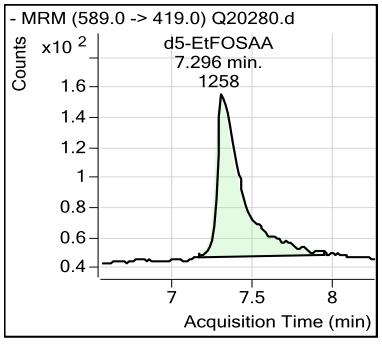
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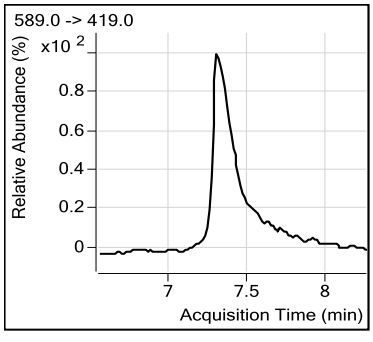


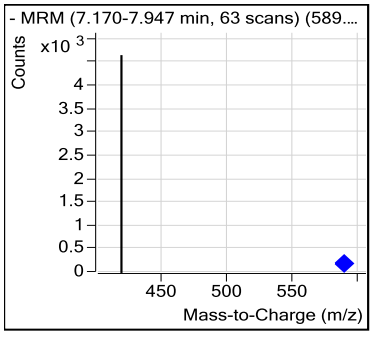




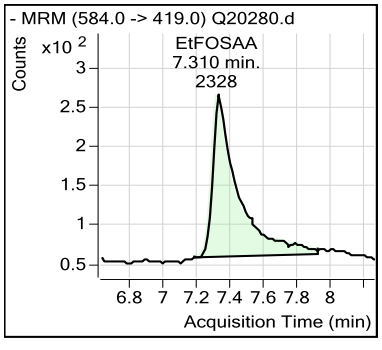
d5-EtFOSAA

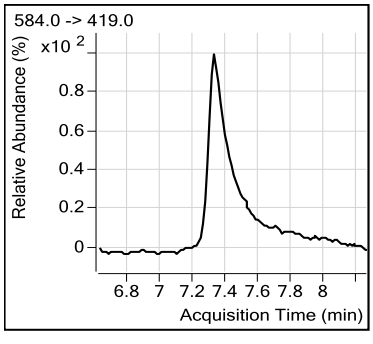


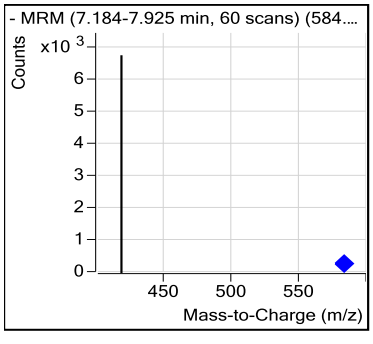




EtFOSAA



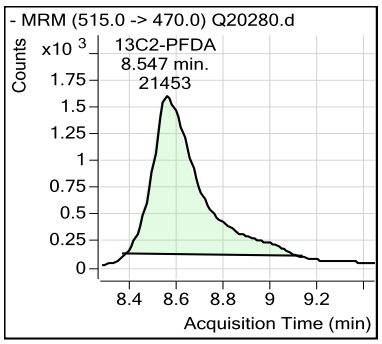


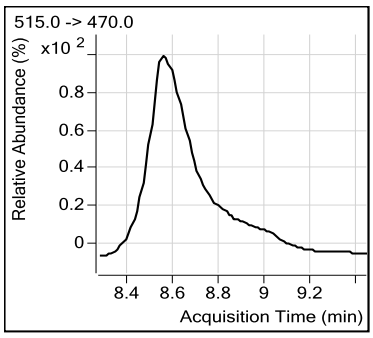


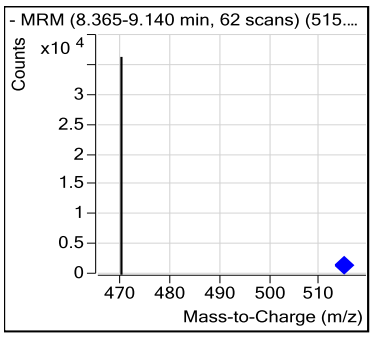
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

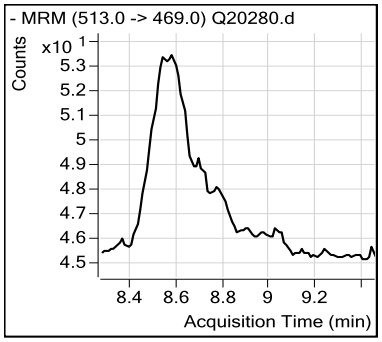
13C2-PFDA

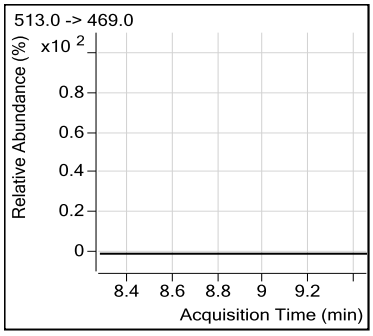


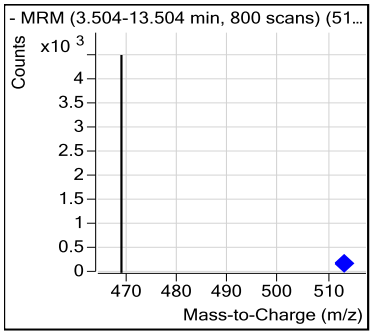




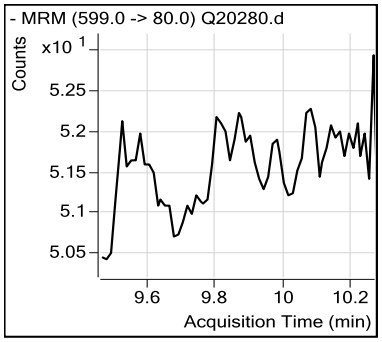
PFDA

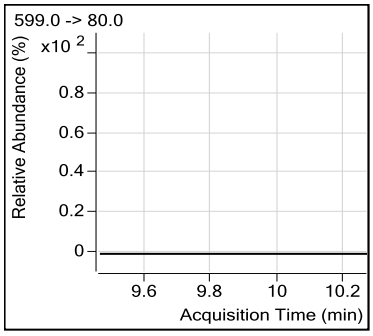


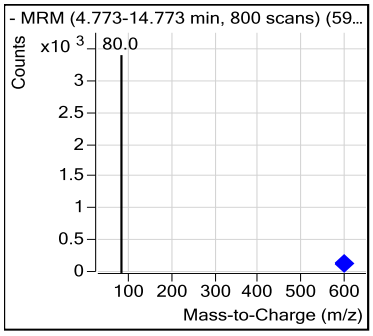




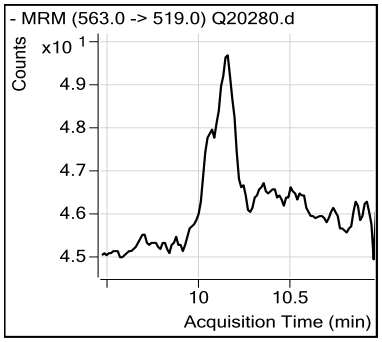
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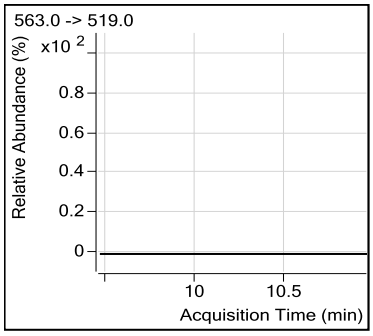


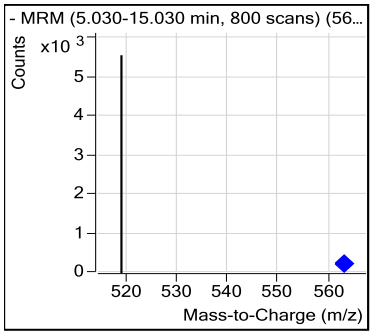




PFUnDA



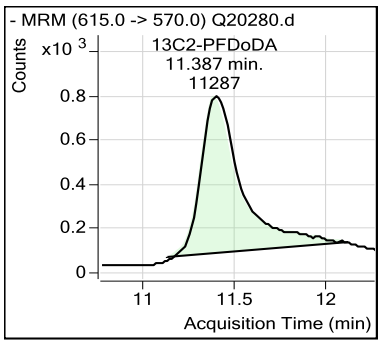


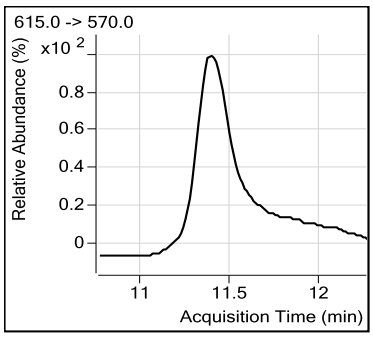


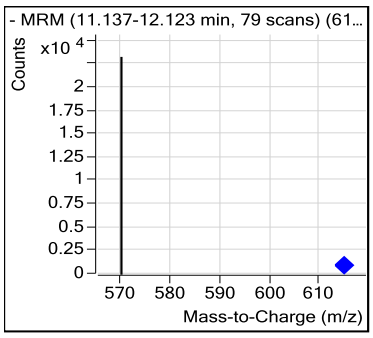
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

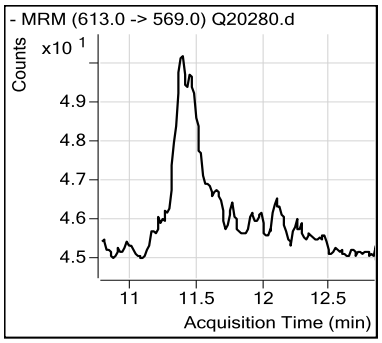
13C2-PFDoDA

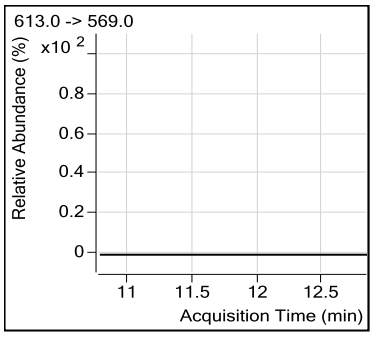


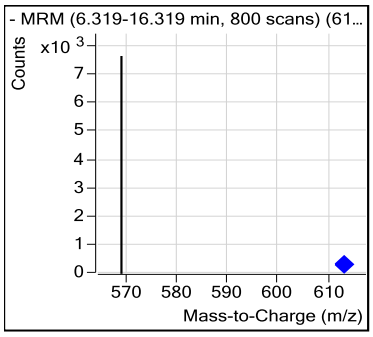




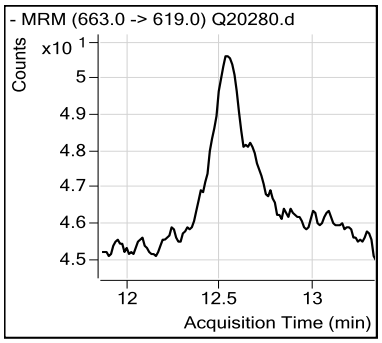
PFDoDA

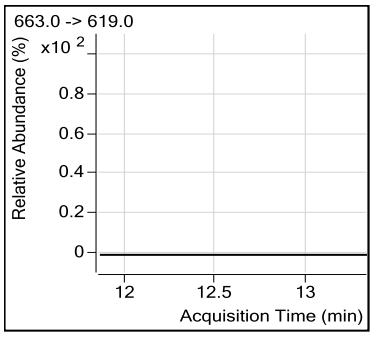


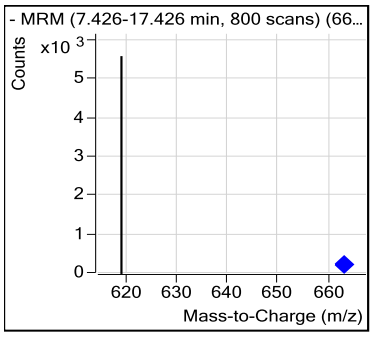




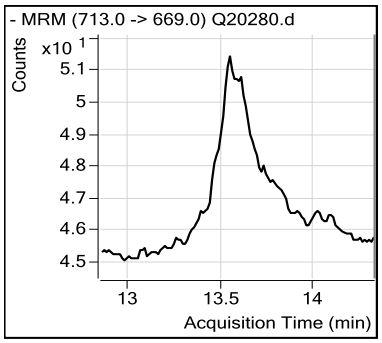
PFTrDA

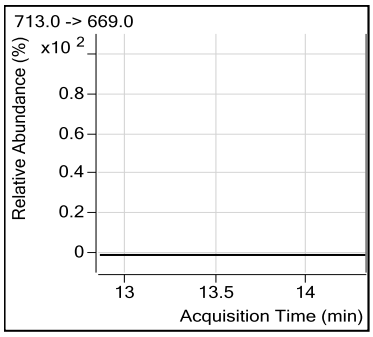


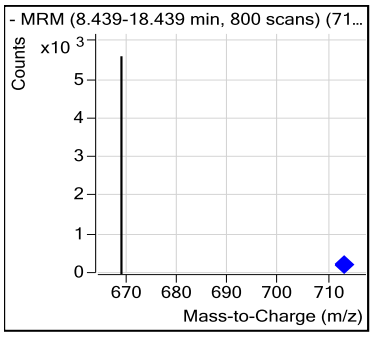




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20309.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 13:09
Sample Name	:	OP59984-MB
Vial	:	Vial 5
Sample Info	:	OP59984,SQ608,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

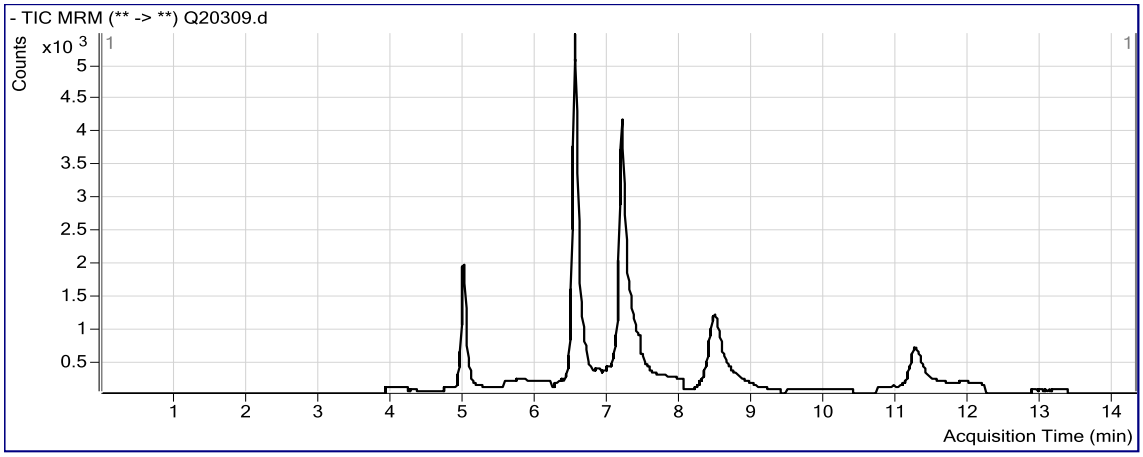
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	28136	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	10905	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	15096	20.000	µg/L		-0.013
13C2-PFDoDA	11.237	615.0 -> 570.0	9703	20.000	µg/L		-0.075
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	9857	27.22	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 136.10%				
d5-EtFOSAA	7.296	589.0 -> 419.0	831	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.460	515.0 -> 470.0	17052	19.71	µg/L		-0.038
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 98.57%				
Target Compounds							**Qvalue**
PFBA	2.827	213.0 -> 169.0	0	0.000	µg/L	m	1
MeFOSAA	7.188	570.0 -> 419.0	2797	7.701	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	2518	7.578	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

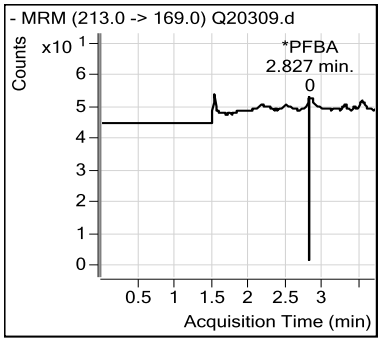
SGS ACCUTEST
FA32826

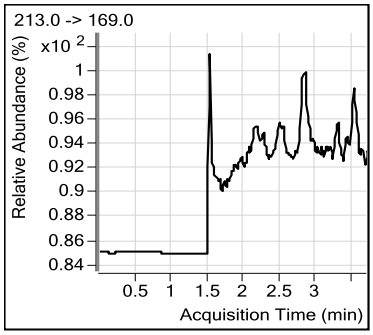
Perfluorinated Compounds by LC/MS/MS.

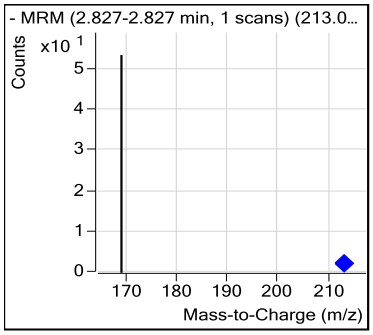
Data File	:	Q20309.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 13:09
Sample Name	:	OP59984-MB
Vial	:	Vial 5
Sample Info	:	OP59984,SQ608,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



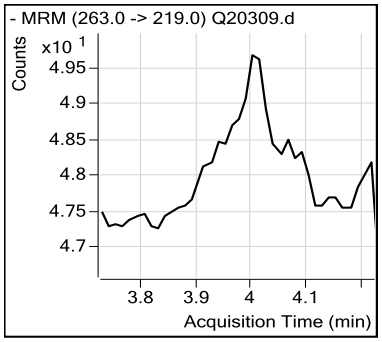
PFBA

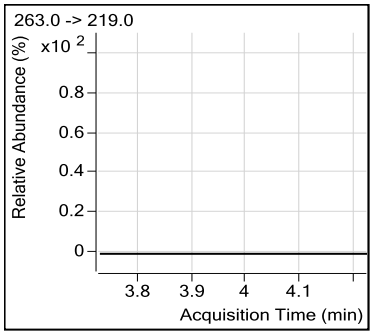


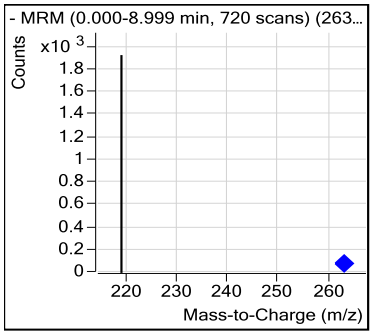




PFPeA

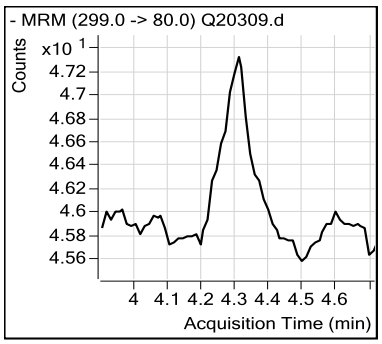


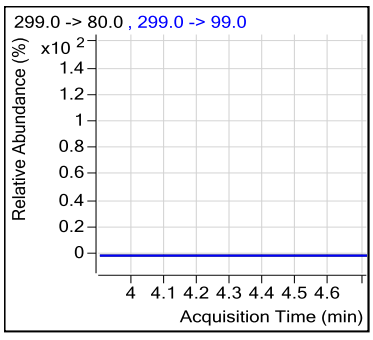


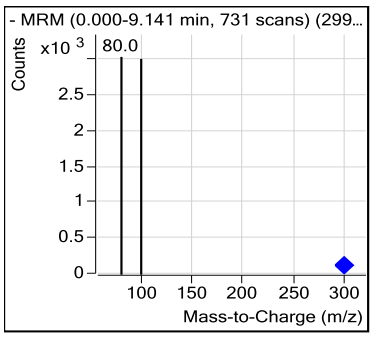


Perfluorinated Compounds by LC/MS/MS.

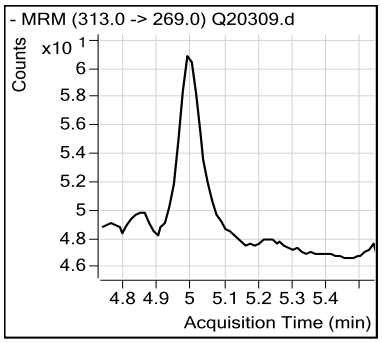
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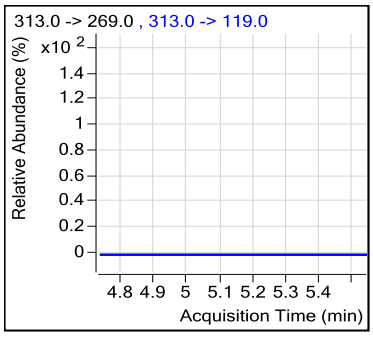


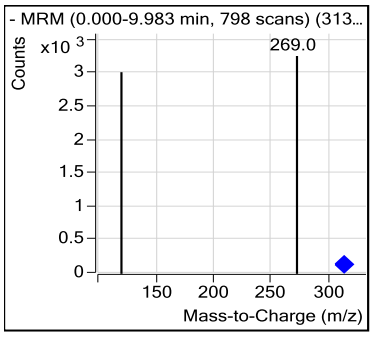




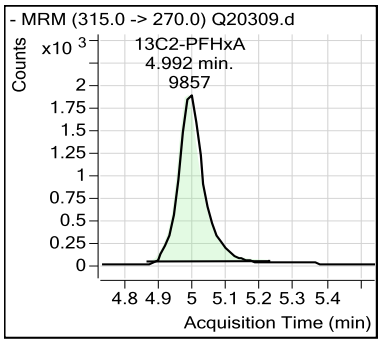
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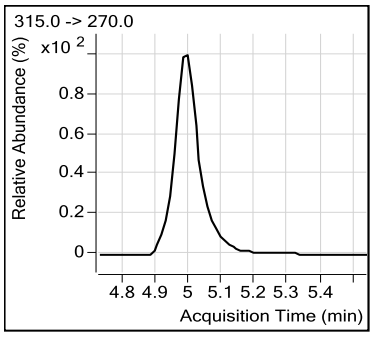


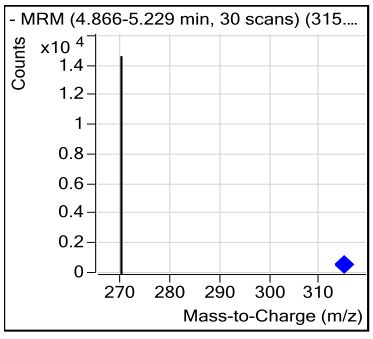




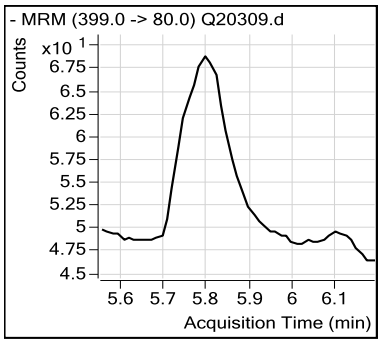
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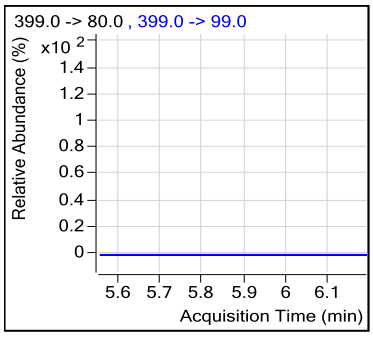


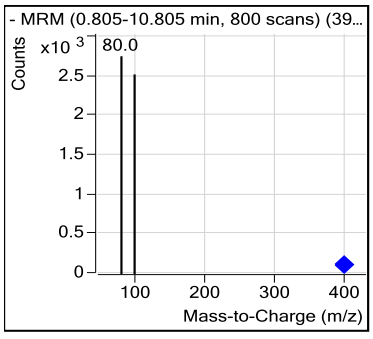




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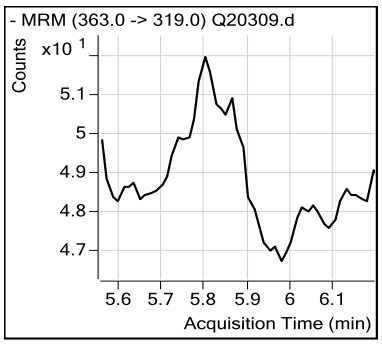


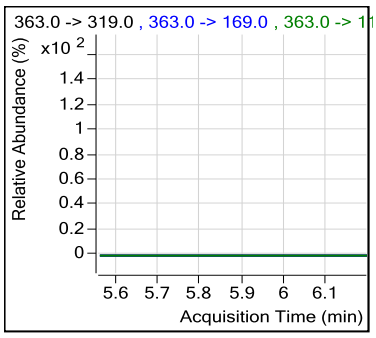


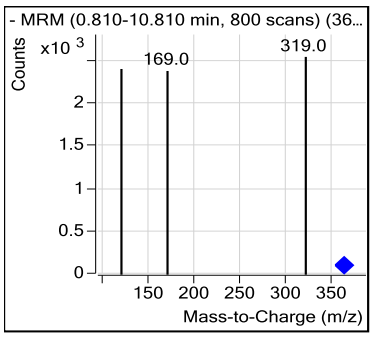
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

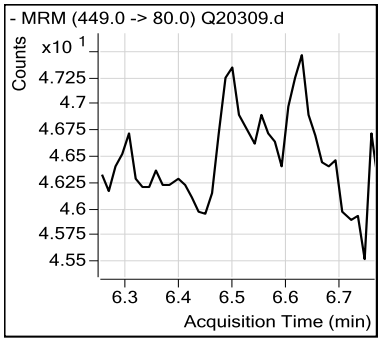
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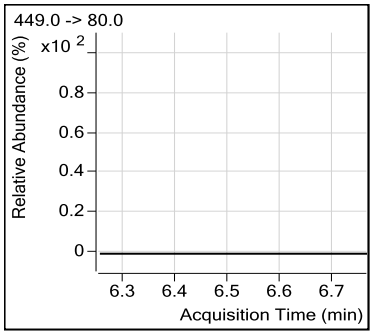


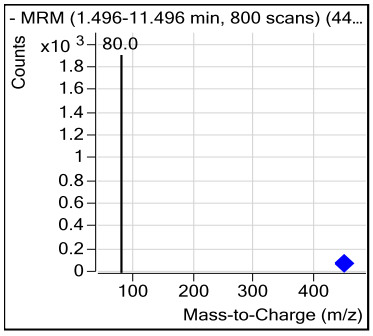




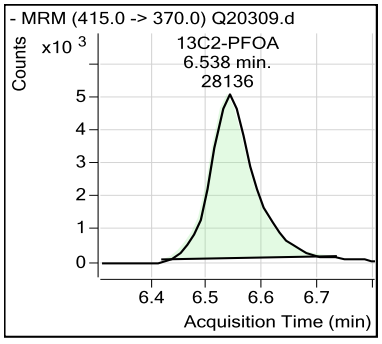
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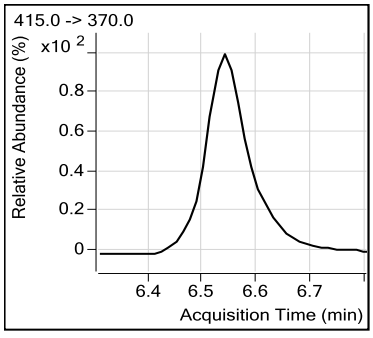


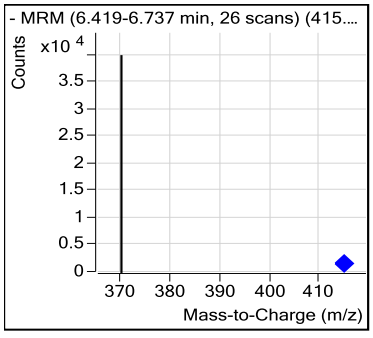




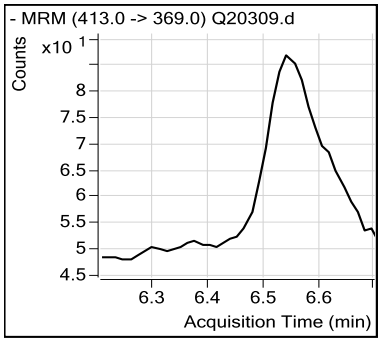
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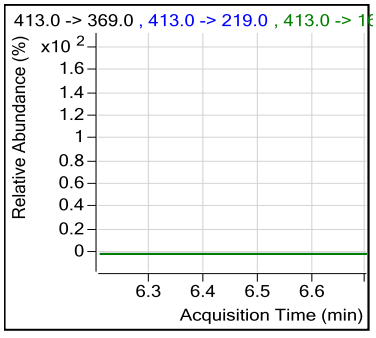


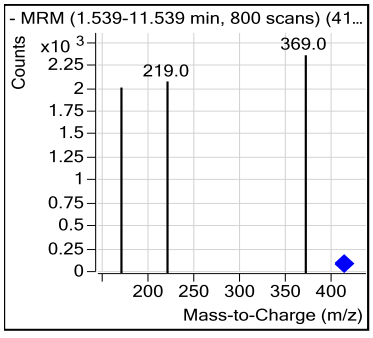




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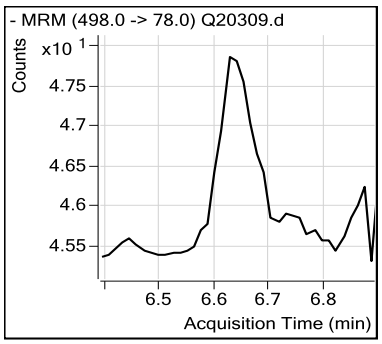


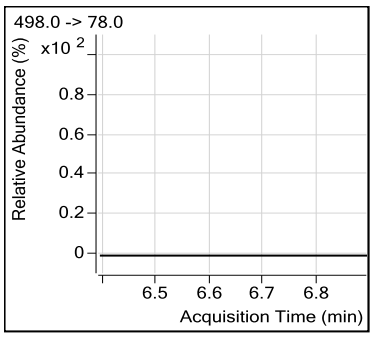


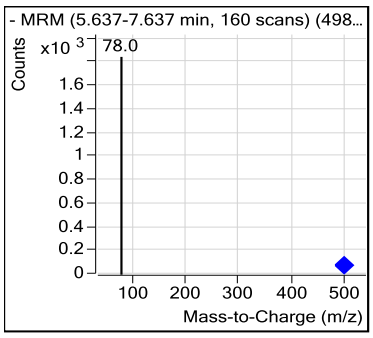
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

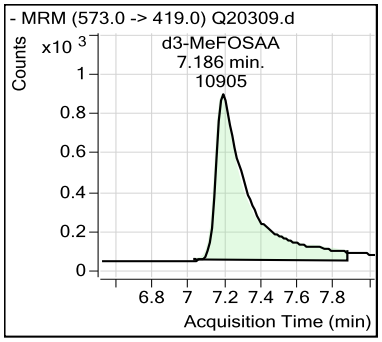
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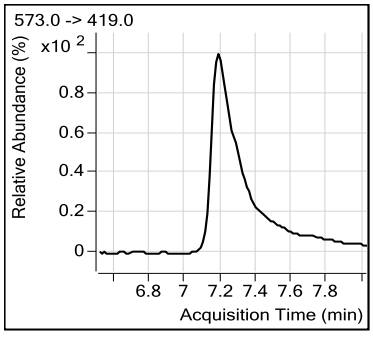


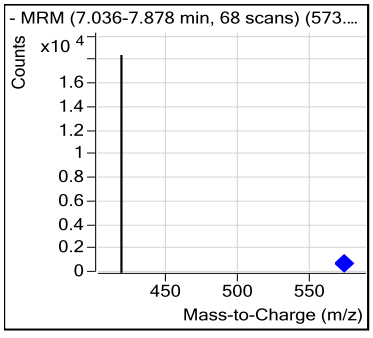




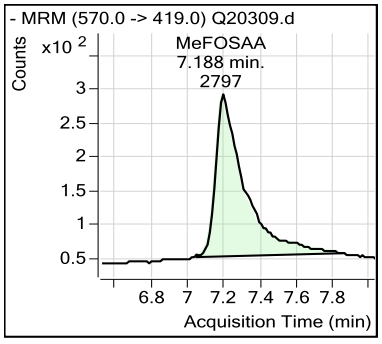
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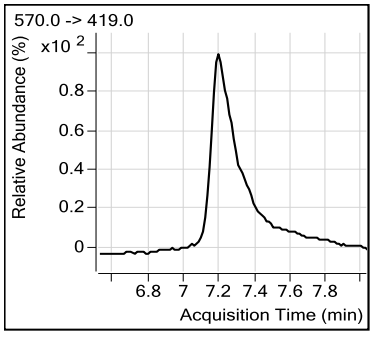


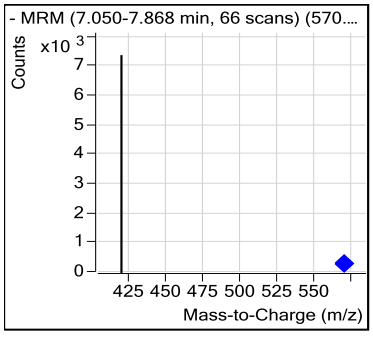




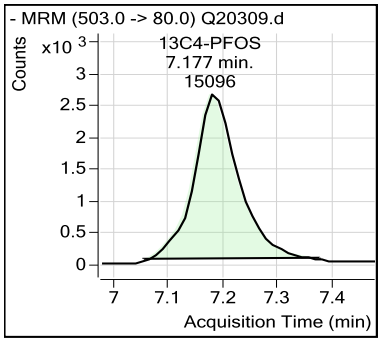
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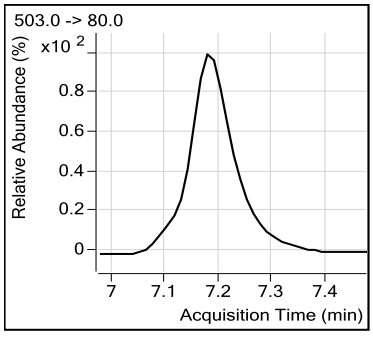


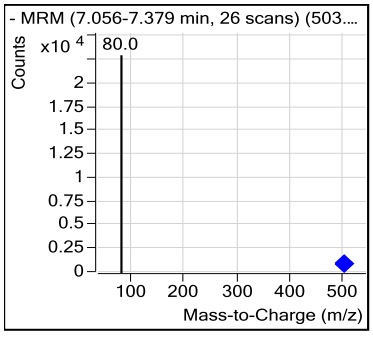




13C4-PFOS



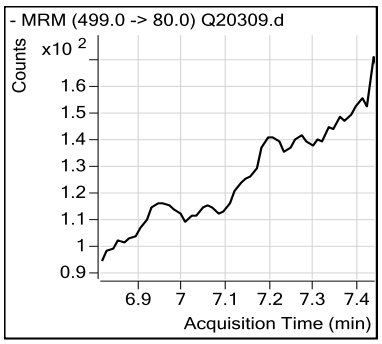


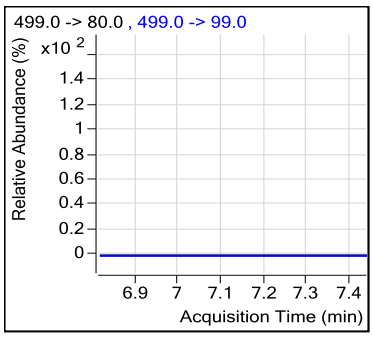


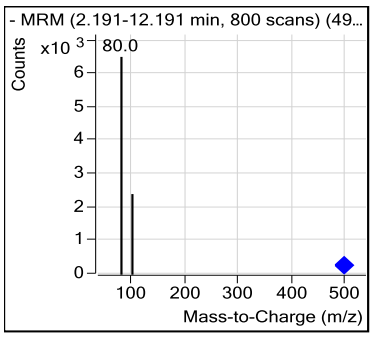
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

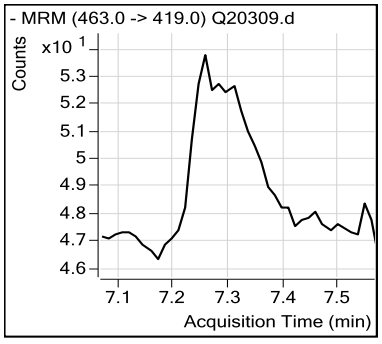
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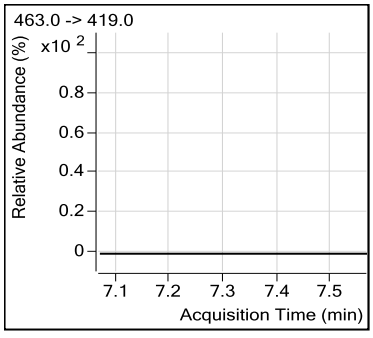


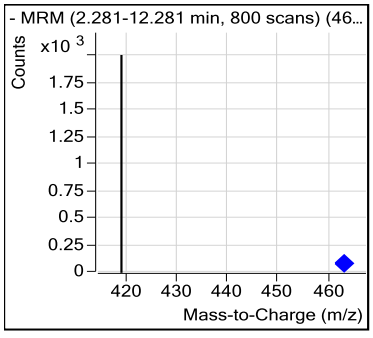




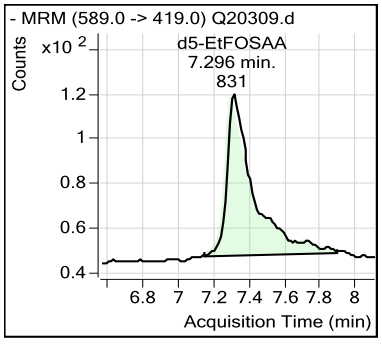
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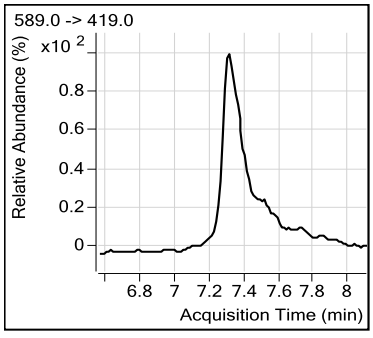


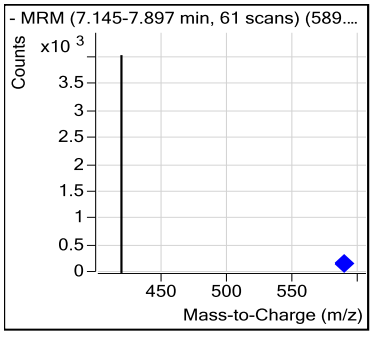




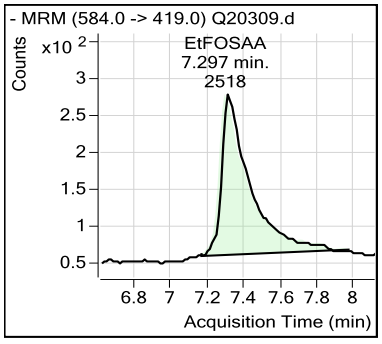
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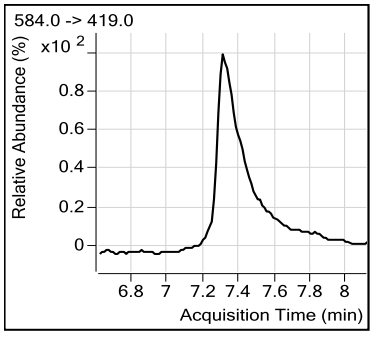


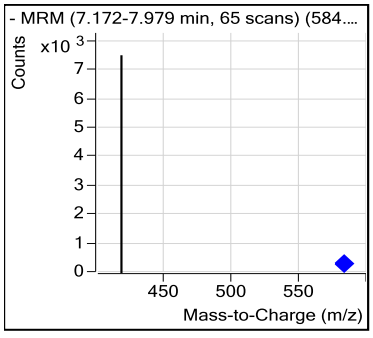




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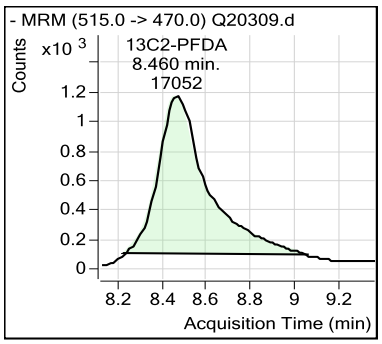


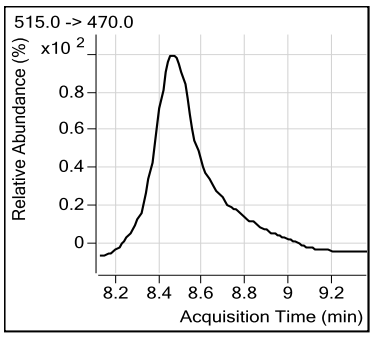


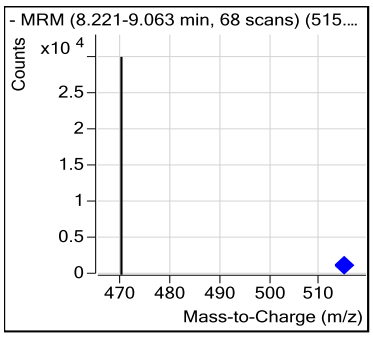
SGS ACCUTEST
FA32826

Perfluorinated Compounds by LC/MS/MS.

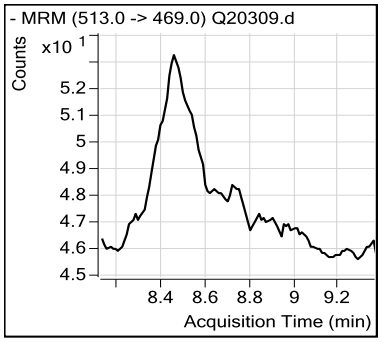
13C2-PFDA

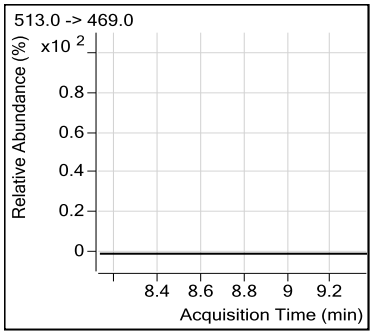


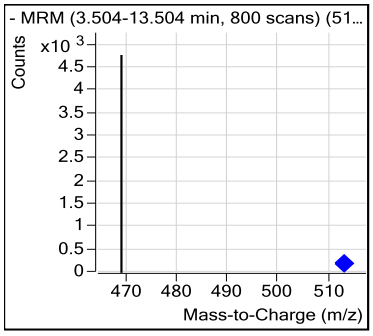




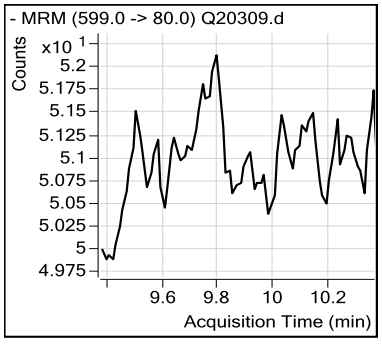
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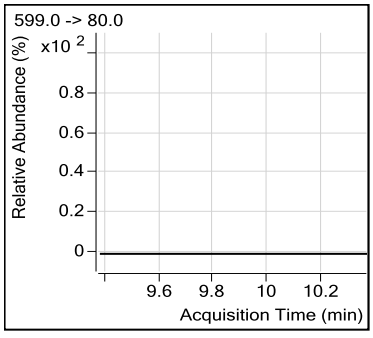


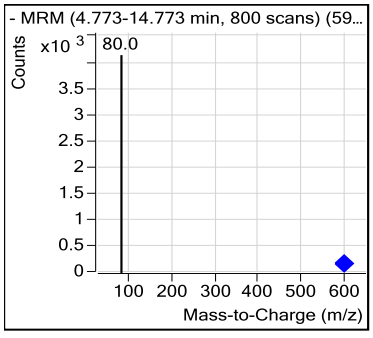




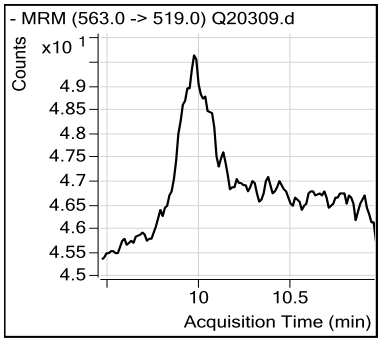
PFDS

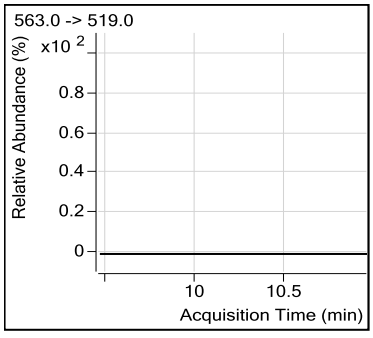


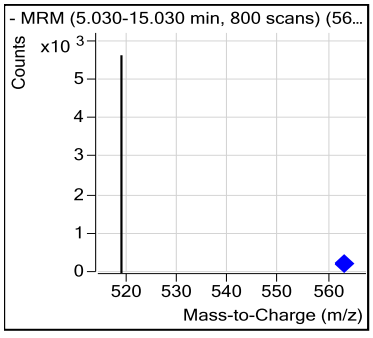




PFUnDA



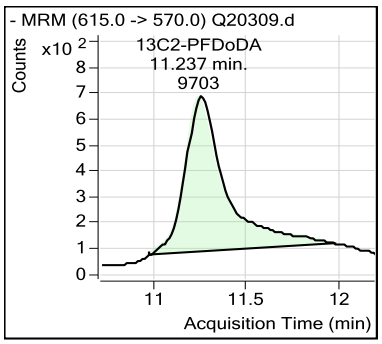


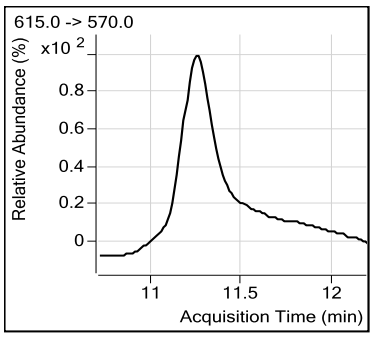


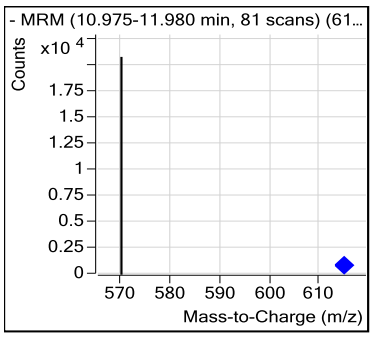
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Perfluorinated Compounds by LC/MS/MS.

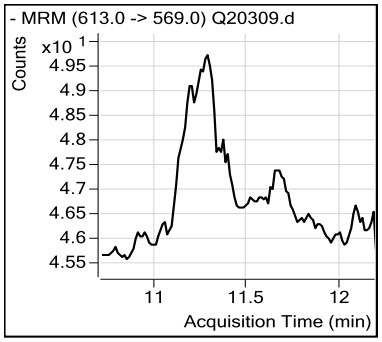
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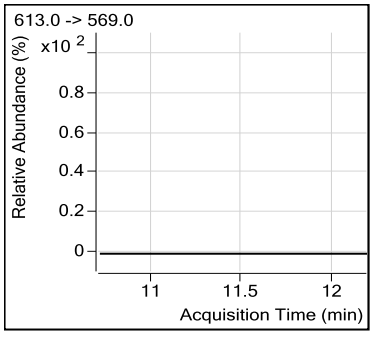


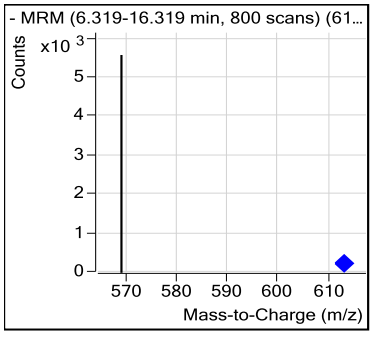




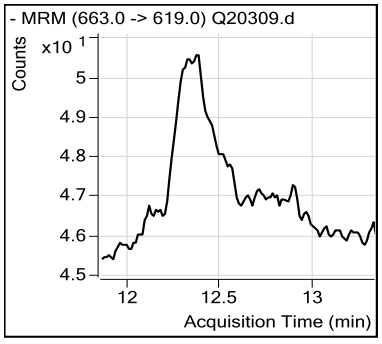
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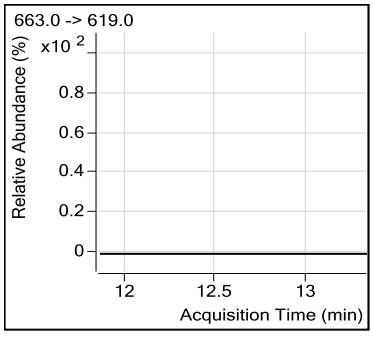


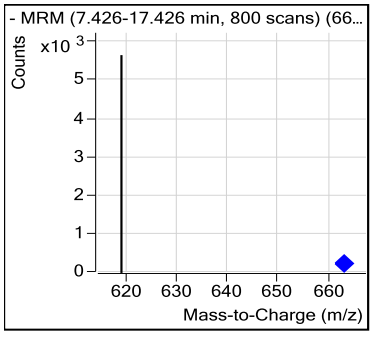




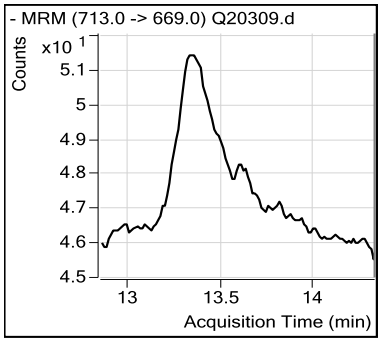
PFTrDA

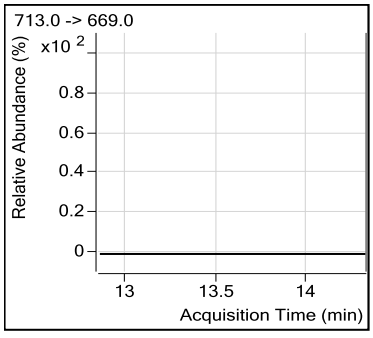


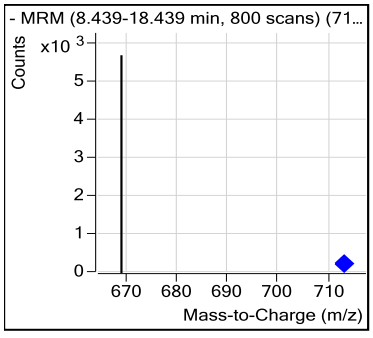




PFTeDA







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Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20279.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 01:06
Sample Name	:	OP59984-BS
Vial	:	Vial 28
Sample Info	:	OP59984,SQ607,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

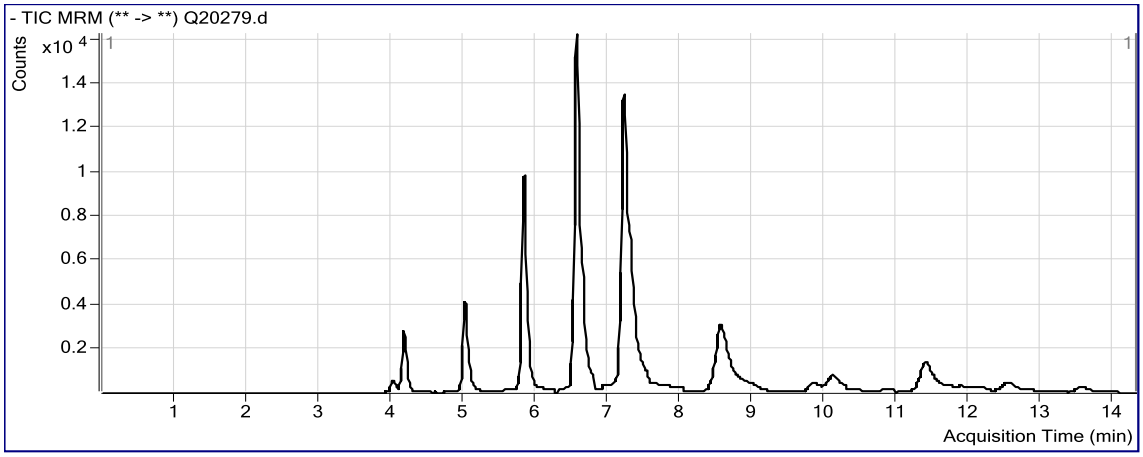
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.563	415.0 -> 370.0	34769	20.000	µg/L		0.026
d3-MeFOSAA	7.186	573.0 -> 419.0	12698	40.000	µg/L		0.000
13C4-PFOS	7.214	503.0 -> 80.0	22870	20.000	µg/L		0.025
13C2-PFDoDA	11.387	615.0 -> 570.0	12227	20.000	µg/L		0.075
System Monitoring Compounds							
13C2-PFHxA	5.017	315.0 -> 270.0	10223	22.84	µg/L		0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 114.22%				
d5-EtFOSAA	7.308	589.0 -> 419.0	0	0.00	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
13C2-PFDA	8.547	515.0 -> 470.0	22599	21.14	µg/L		0.050
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 105.71%				
Target Compounds							**Qvalue**
PFBA	2.827	213.0 -> 169.0	224	0.426	µg/L		100
PFPeA	4.024	263.0 -> 219.0	2367	14.687	µg/L		100
PFBS	4.166	299.0 -> 80.0	8660	22.443	µg/L		94
PFHxA	5.008	313.0 -> 269.0	10254	22.965	µg/L		99
PFHxS	5.818	399.0 -> 80.0	16193	24.045	µg/L		87
PFHpA	5.835	363.0 -> 319.0	20565	24.788	µg/L	#	71
PFOA	6.565	413.0 -> 369.0	41236	25.486	µg/L		85
PFOSA	6.649	498.0 -> 78.0	7770	11.239	µg/L		100
MeFOSAA	7.200	570.0 -> 419.0	8682	28.605	µg/L		100
PFOS	7.216	499.0 -> 80.0	26822	22.710	µg/L		87
PFNA	7.307	463.0 -> 419.0	18593	23.602	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	7176	26.163	µg/L		100
PFDA	8.541	513.0 -> 469.0	18494	22.104	µg/L		100
PFDS	9.836	599.0 -> 80.0	4250	15.767	µg/L		100
PFUnDA	10.105	563.0 -> 519.0	10158	16.577	µg/L		100
PFDoDA	11.381	613.0 -> 569.0	10353	14.487	µg/L		100
PFTrDA	12.501	663.0 -> 619.0	6861	13.898	µg/L		100
PFTeDA	13.527	713.0 -> 669.0	4650	15.199	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

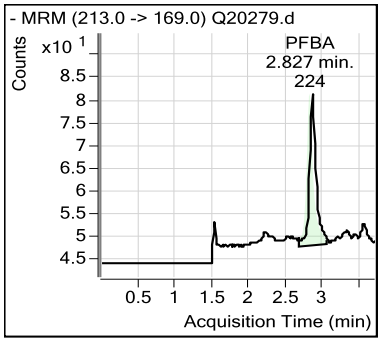
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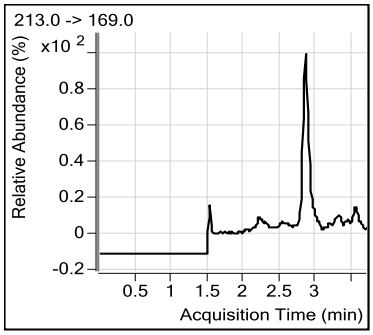
Perfluorinated Compounds by LC/MS/MS.

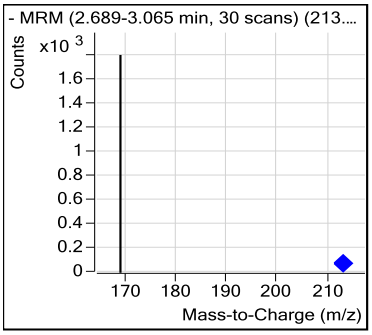
Data File	:	Q20279.d
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Acquisition date	:	2016-04-13 01:06
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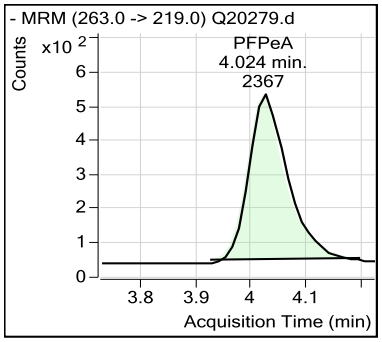
PFBA

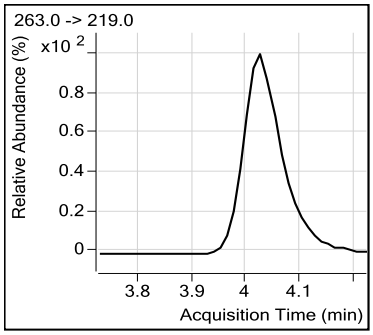


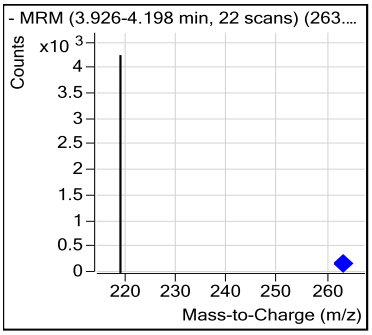




PFPeA

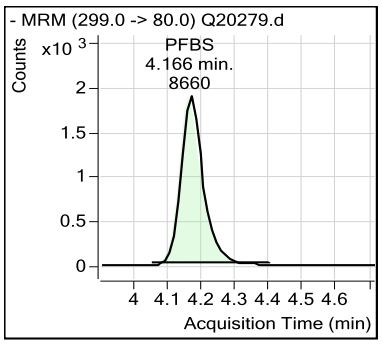


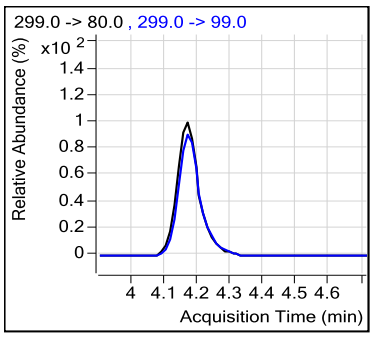


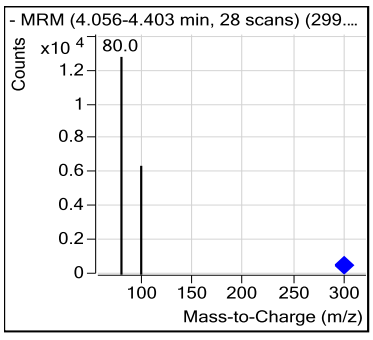


Perfluorinated Compounds by LC/MS/MS.

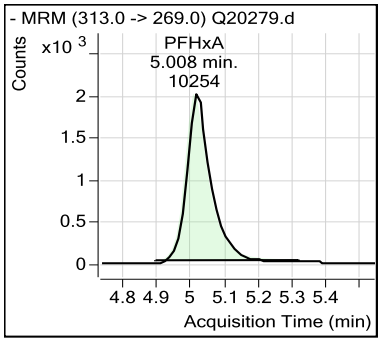
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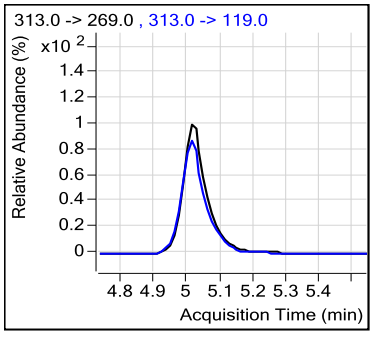


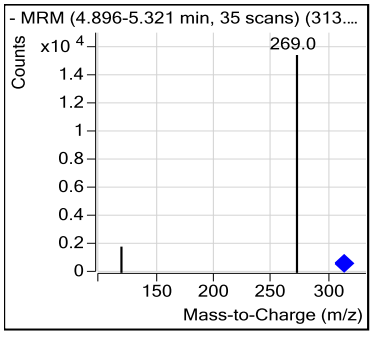




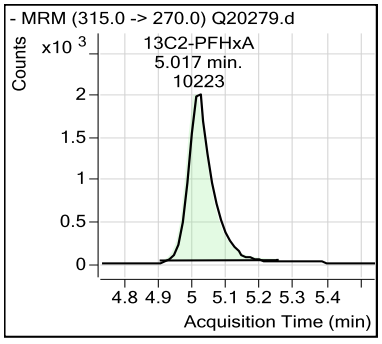
PFHxA

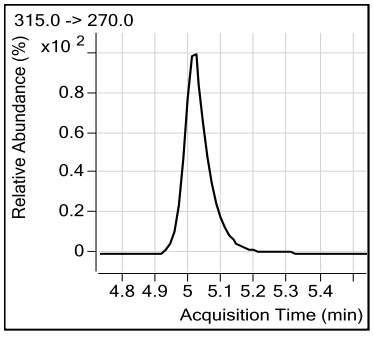


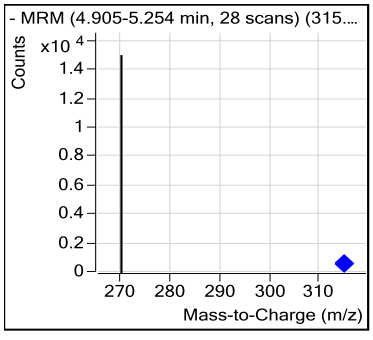




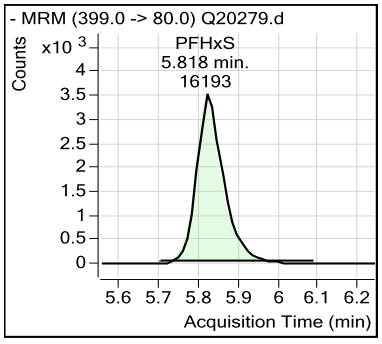
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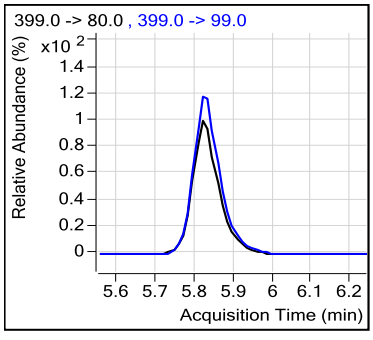


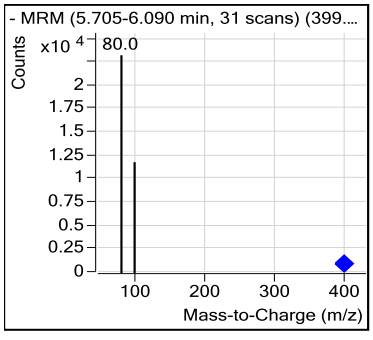




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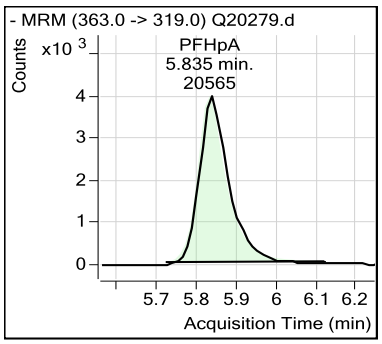


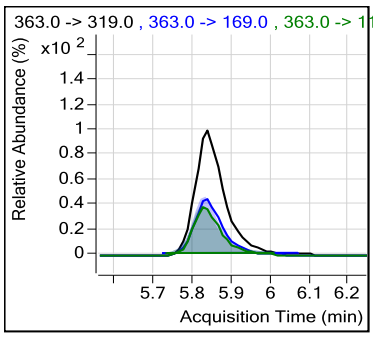


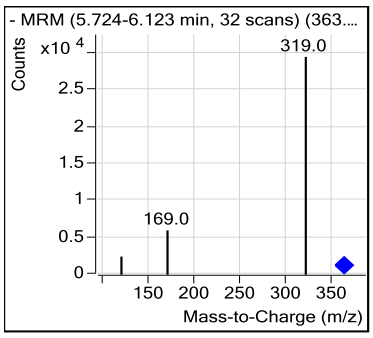
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Perfluorinated Compounds by LC/MS/MS.

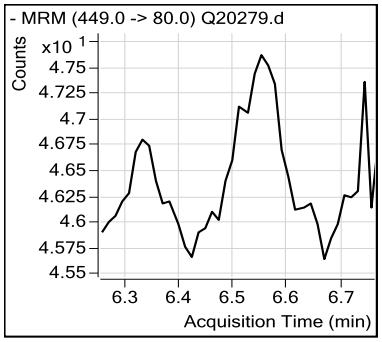
PFHpA

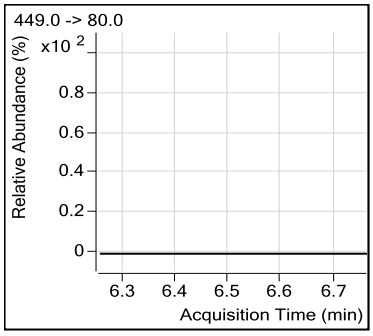


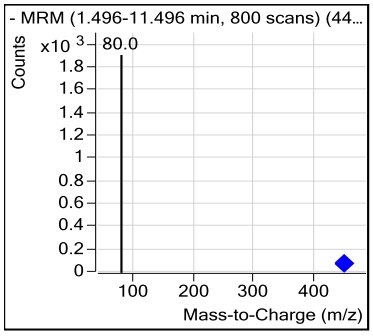




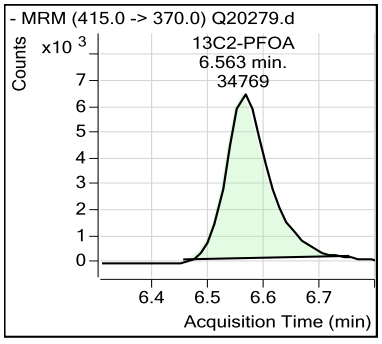
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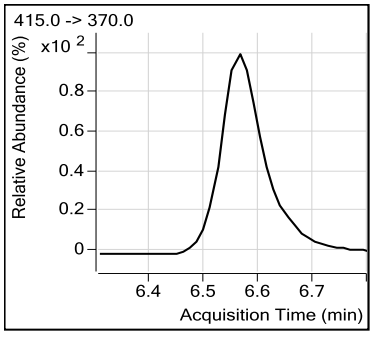


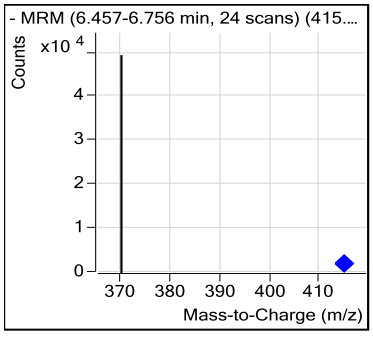




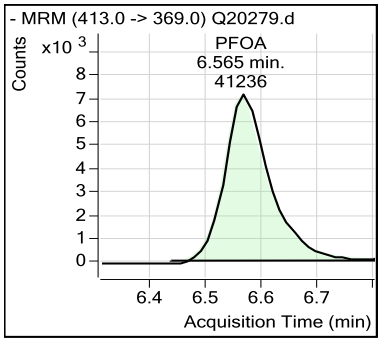
13C2-PFOA

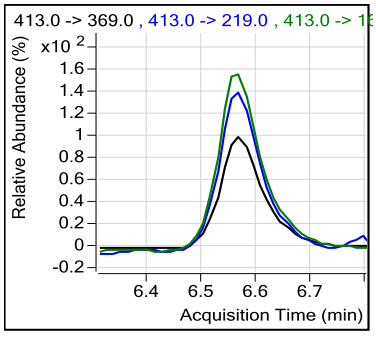


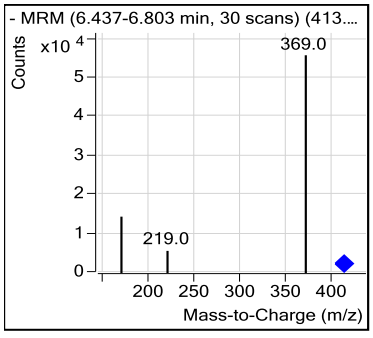




PFOA





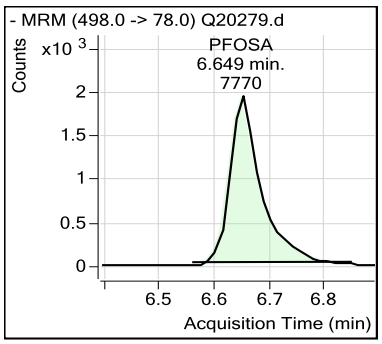


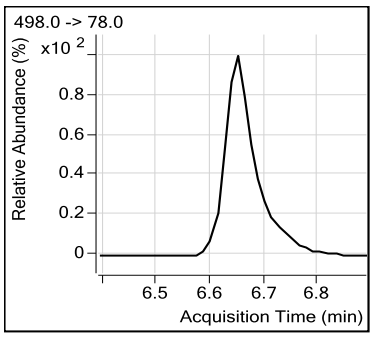
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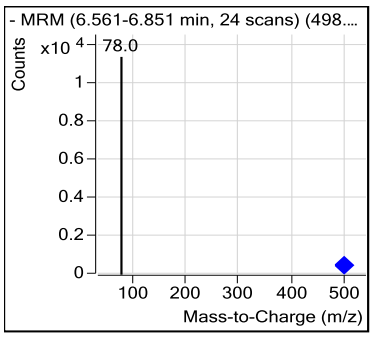
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Perfluorinated Compounds by LC/MS/MS.

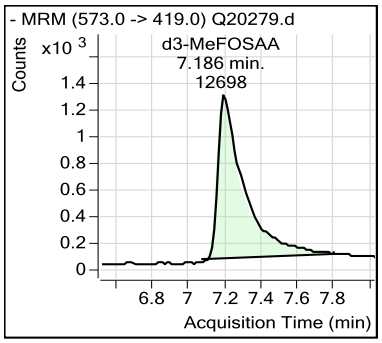
PFOSA

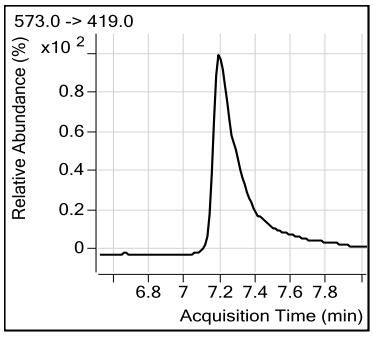


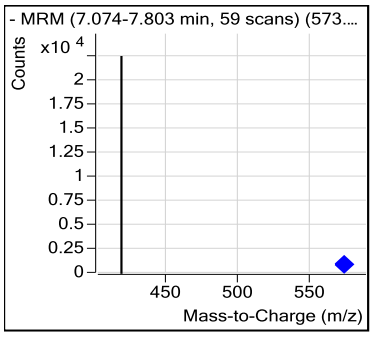




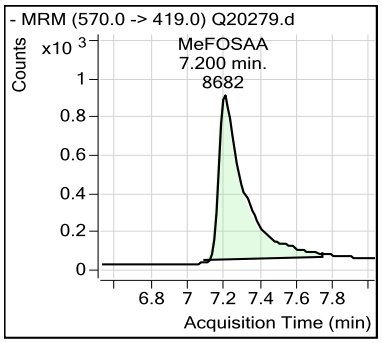
d3-MeFOSAA

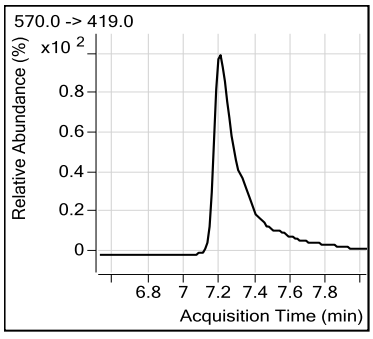


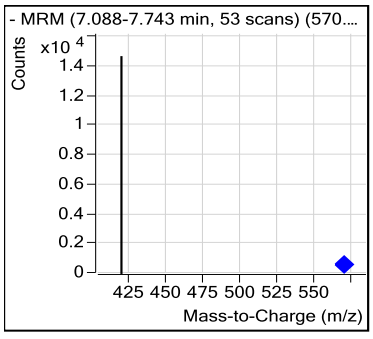




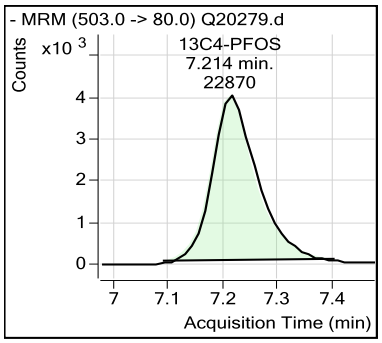
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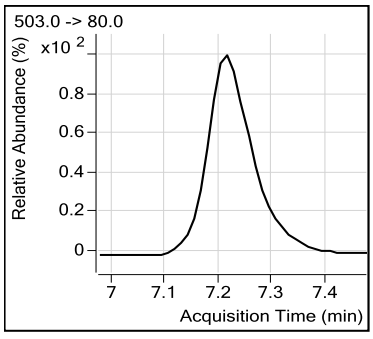


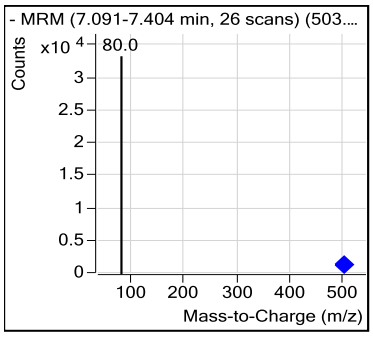




13C4-PFOS

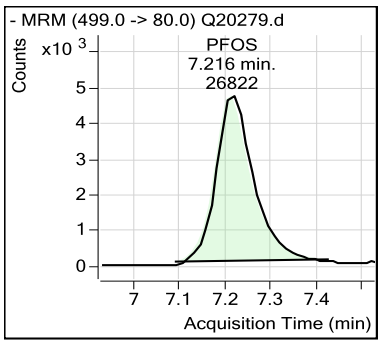


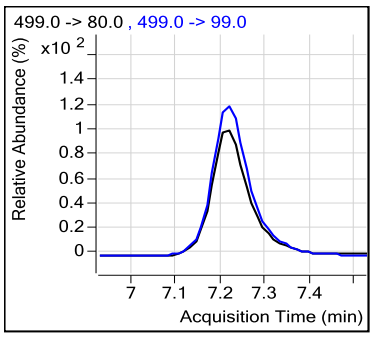


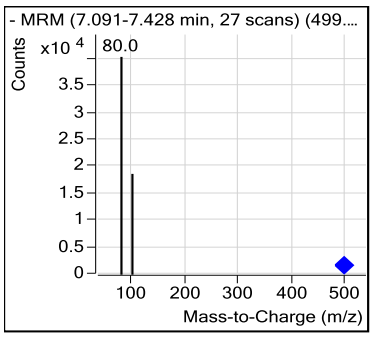


Perfluorinated Compounds by LC/MS/MS.

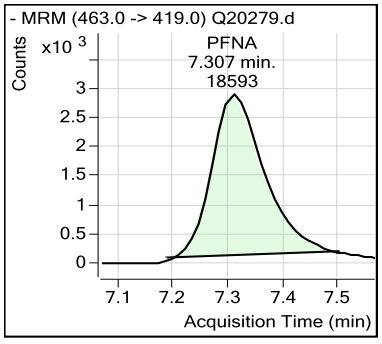
PFOS

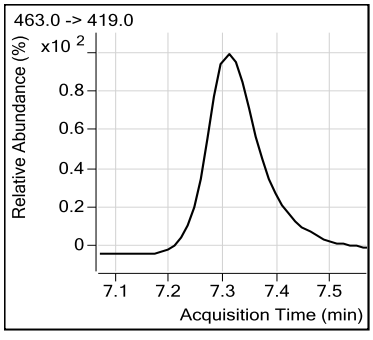


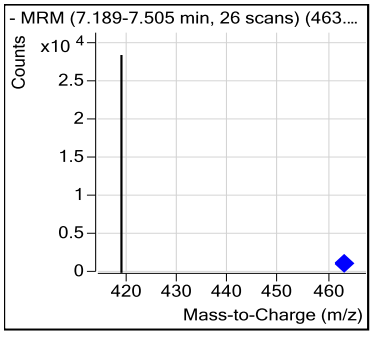




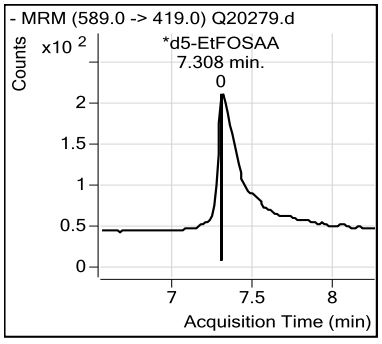
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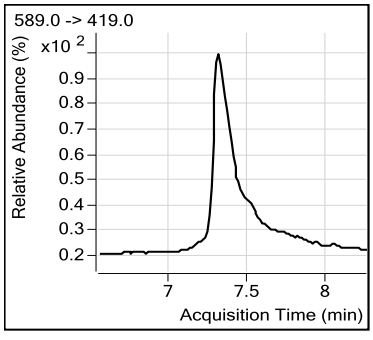


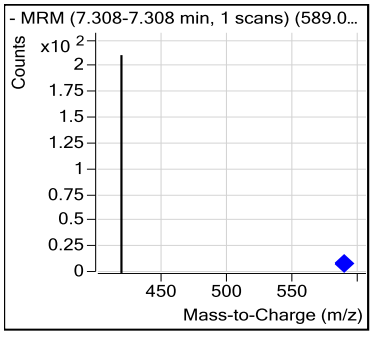




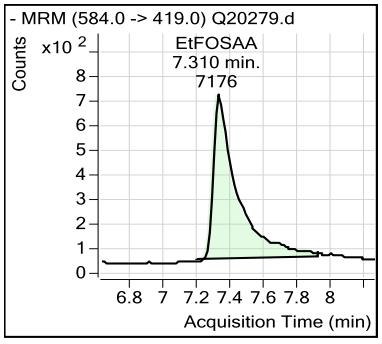
d5-EtFOSAA

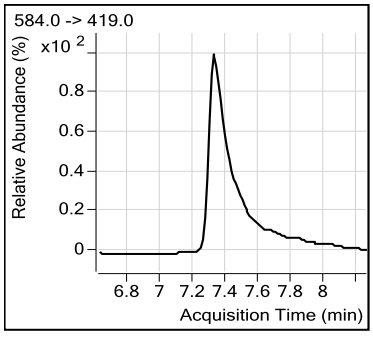


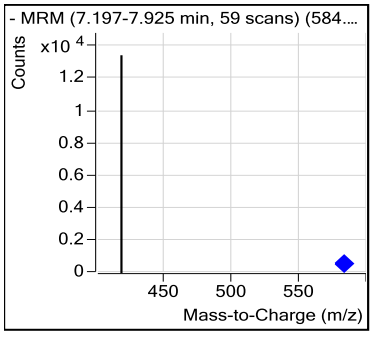




EtFOSAA

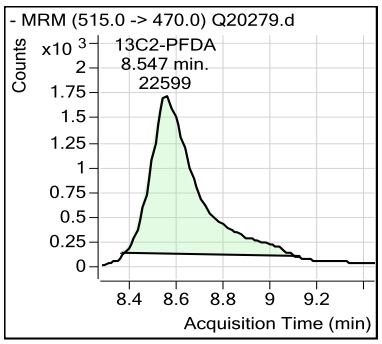


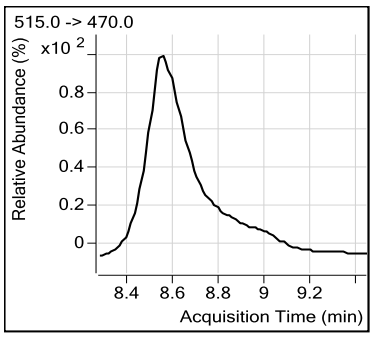


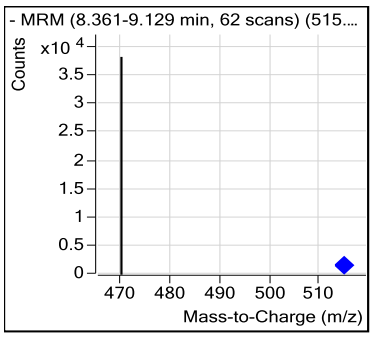


Perfluorinated Compounds by LC/MS/MS.

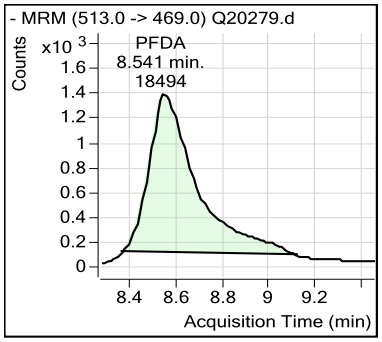
13C2-PFDA

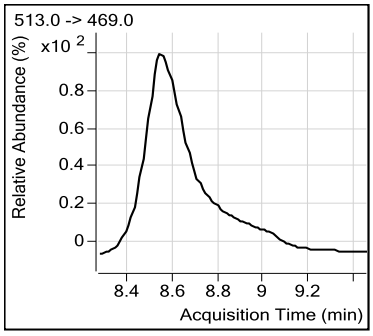


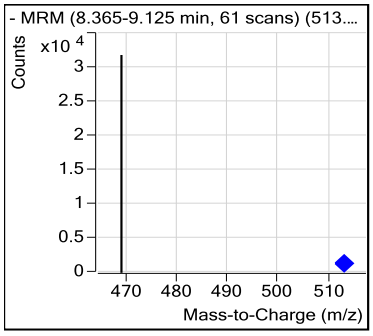




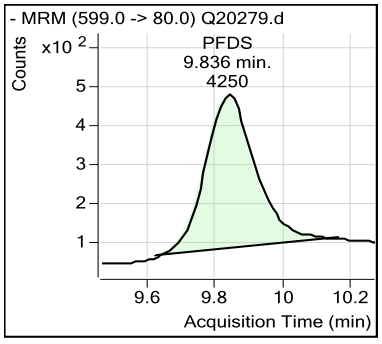
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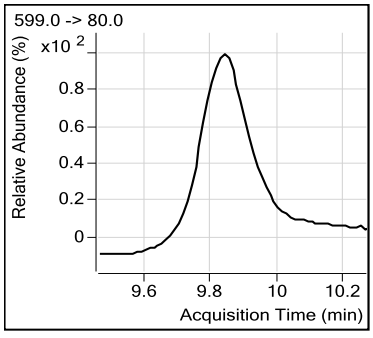


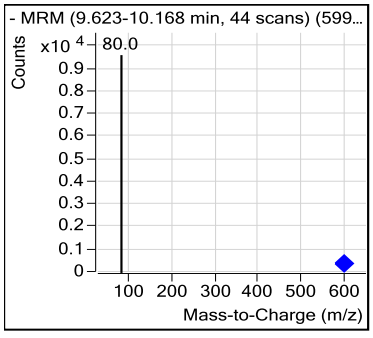




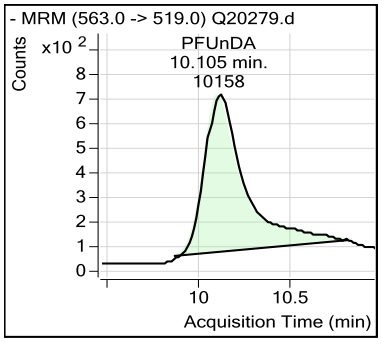
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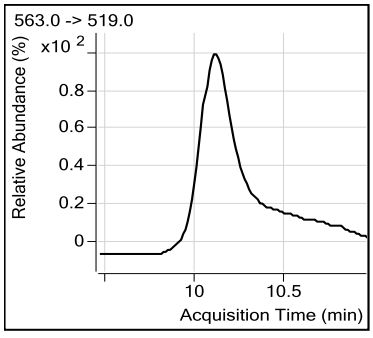


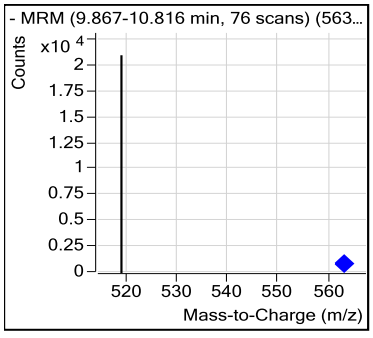




PFUnDA





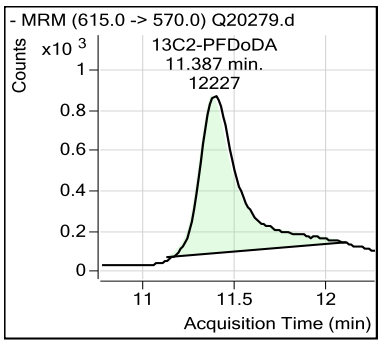


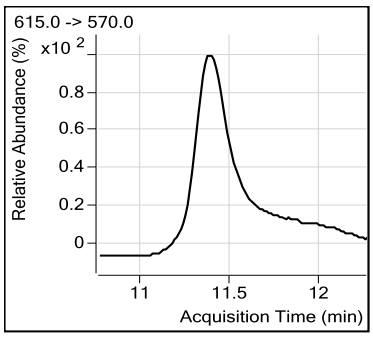
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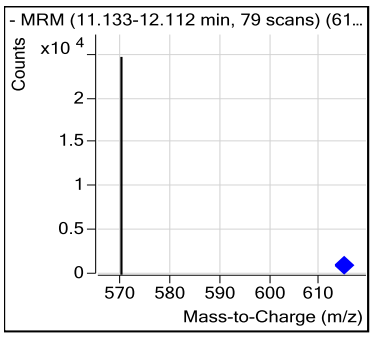
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Perfluorinated Compounds by LC/MS/MS.

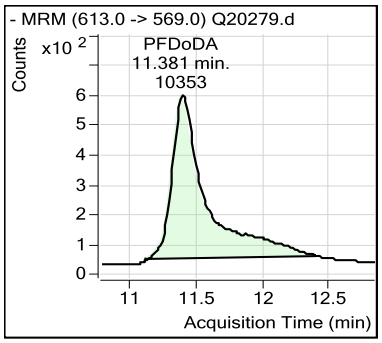
13C2-PFDoDA

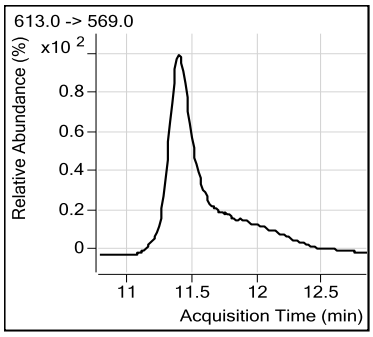


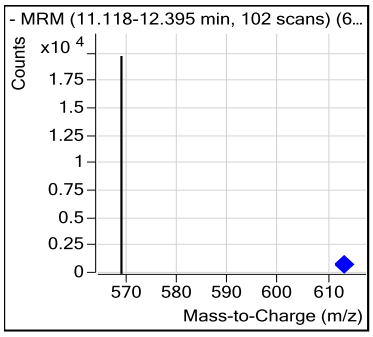




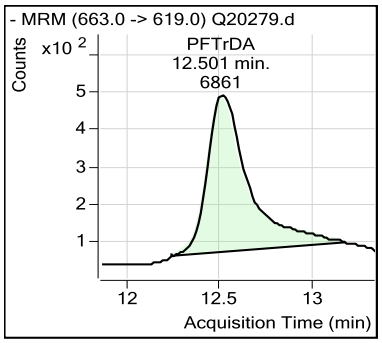
PFDoDA

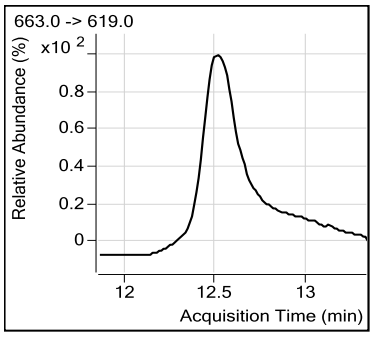


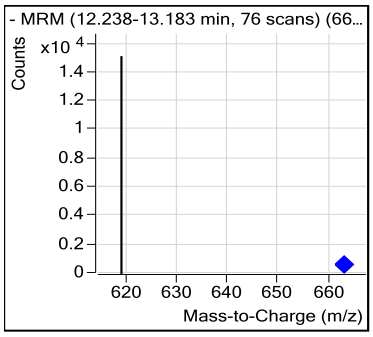




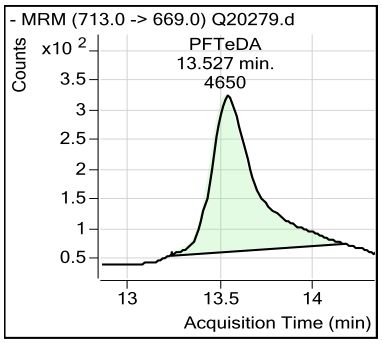
PFTrDA

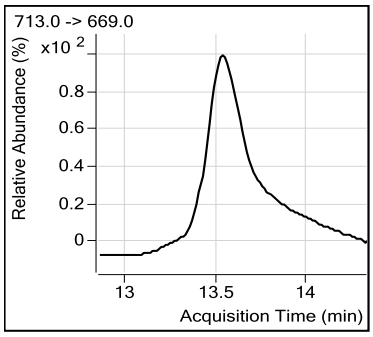


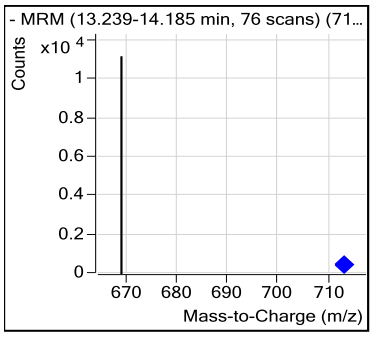




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

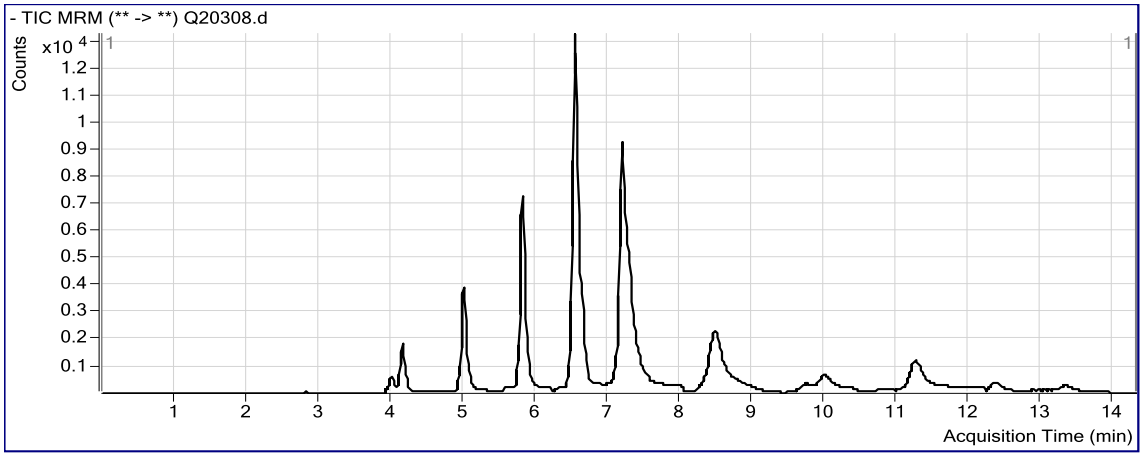
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 12:48
Sample Name	:	OP59984-BS
Vial	:	Vial 4
Sample Info	:	OP59984,SQ608,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	29305	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	11017	40.000	µg/L		0.000
13C4-PFOS	7.189	503.0 -> 80.0	14652	20.000	µg/L		0.000
13C2-PFDoDA	11.237	615.0 -> 570.0	10577	20.000	µg/L		-0.075
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	9774	25.92	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 129.58%				
d5-EtFOSAA	7.296	589.0 -> 419.0	1322	0.64	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 1.59%				
13C2-PFDA	8.472	515.0 -> 470.0	17422	19.34	µg/L		-0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 96.69%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	227	0.511	µg/L		100
PFPeA	3.999	263.0 -> 219.0	2532	18.635	µg/L		100
PFBS	4.141	299.0 -> 80.0	5587	22.602	µg/L		94
PFHxA	4.996	313.0 -> 269.0	9993	26.555	µg/L		99
PFHxS	5.805	399.0 -> 80.0	10047	23.288	µg/L		84
PFHpA	5.810	363.0 -> 319.0	17330	24.784	µg/L	#	72
PFOA	6.539	413.0 -> 369.0	31936	23.419	µg/L		82
PFOSA	6.637	498.0 -> 78.0	5426	9.046	µg/L		100
PFOS	7.178	499.0 -> 80.0	18160	24.002	µg/L		91
MeFOSAA	7.200	570.0 -> 419.0	8188	31.381	µg/L		100
PFNA	7.281	463.0 -> 419.0	15350	23.119	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	7532	32.416	µg/L		100
PFDA	8.466	513.0 -> 469.0	16258	23.055	µg/L		100
PFDS	9.723	599.0 -> 80.0	2970	12.738	µg/L		100
PFUnDA	9.980	563.0 -> 519.0	9118	17.202	µg/L		100
PFDoDA	11.244	613.0 -> 569.0	6887	11.140	µg/L		100
PFTrDA	12.338	663.0 -> 619.0	6279	14.704	µg/L		100
PFTeDA	13.327	713.0 -> 669.0	4258	16.090	µg/L		100

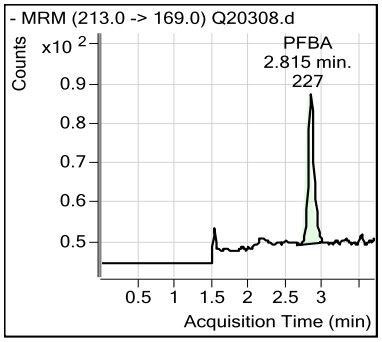
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

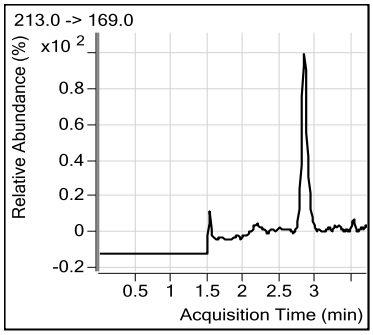
Perfluorinated Compounds by LC/MS/MS.

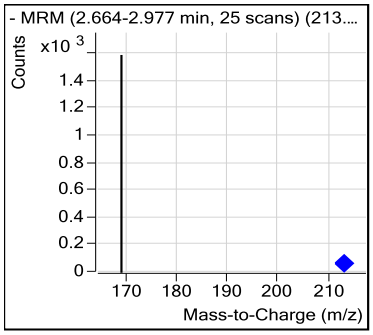
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Operator	:	NANCYF
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Acquisition date	:	2016-04-13 12:48
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Vial	:	Vial 4
Sample Info	:	OP59984,SQ608,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



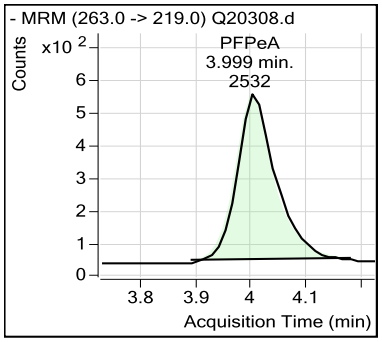
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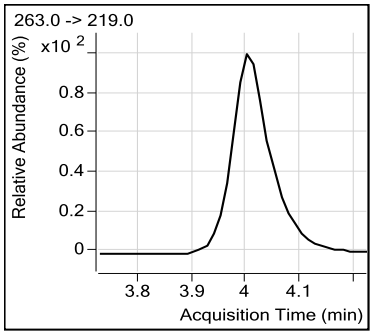


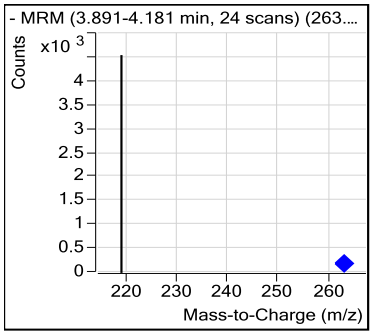




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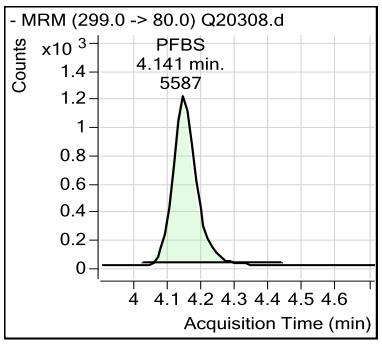


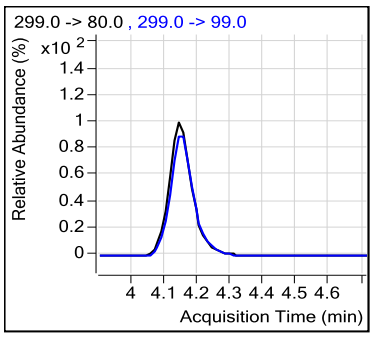


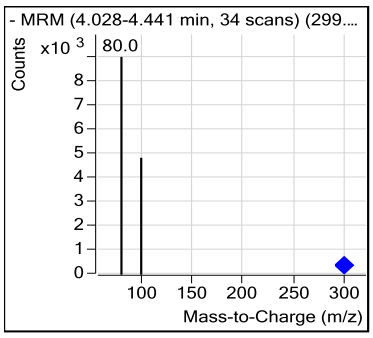


Perfluorinated Compounds by LC/MS/MS.

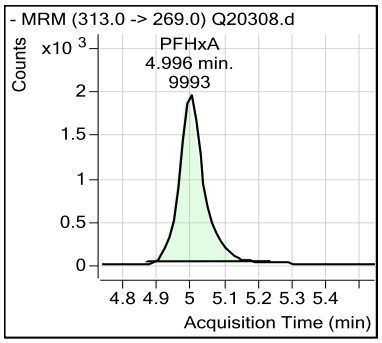
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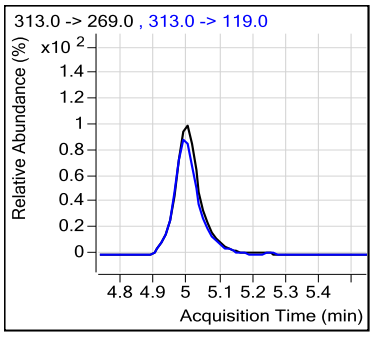


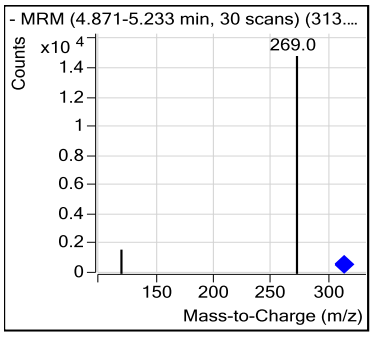




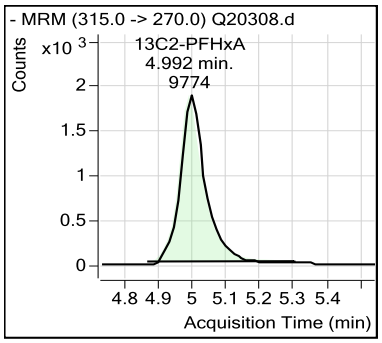
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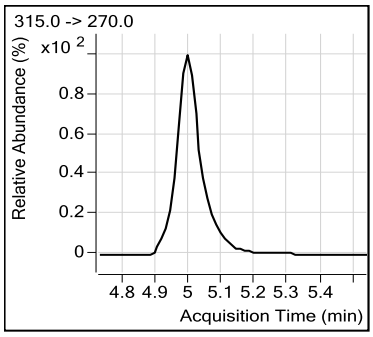


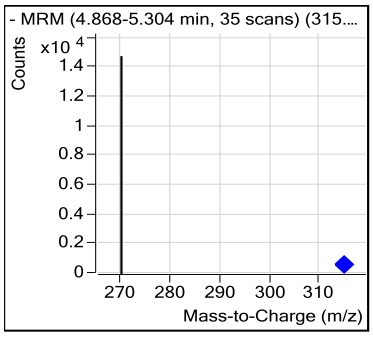




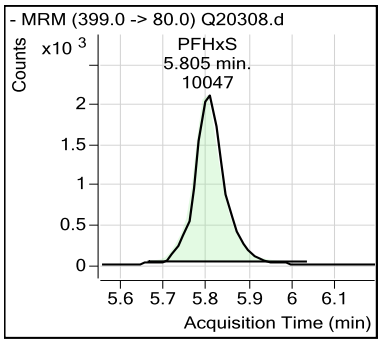
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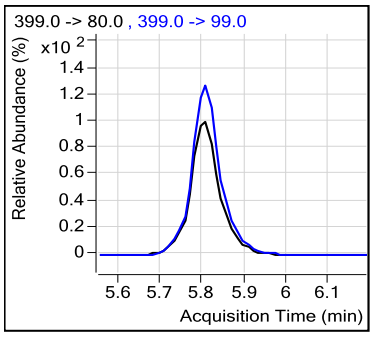


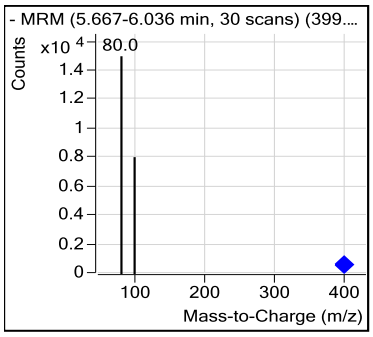




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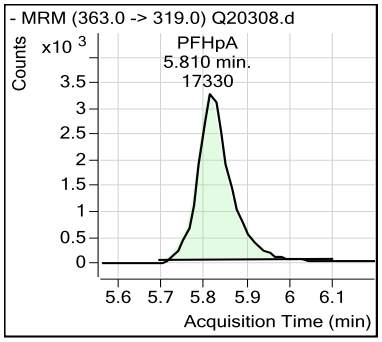


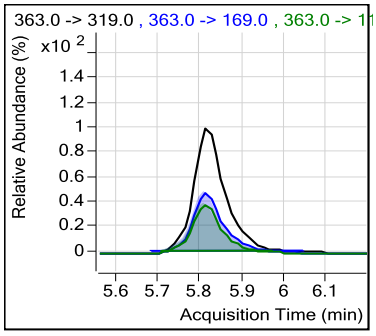


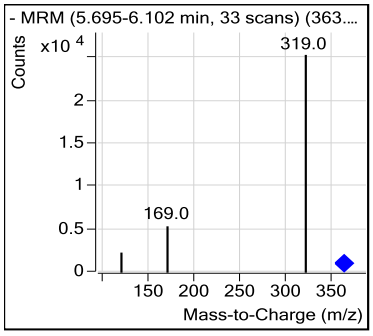


Perfluorinated Compounds by LC/MS/MS.

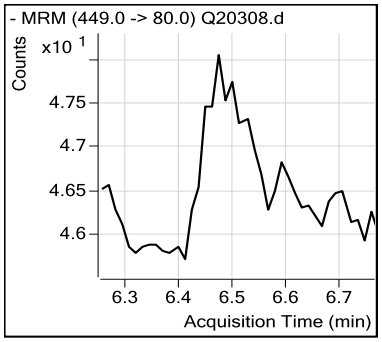
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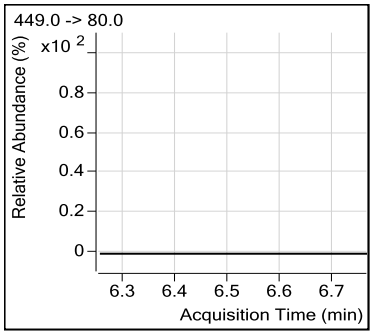


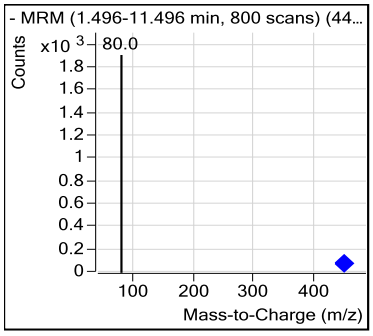




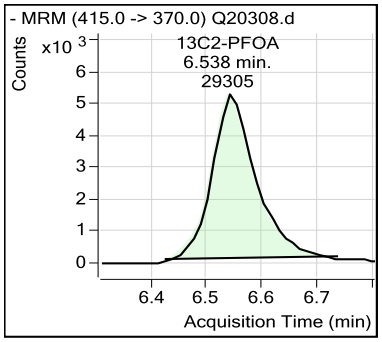
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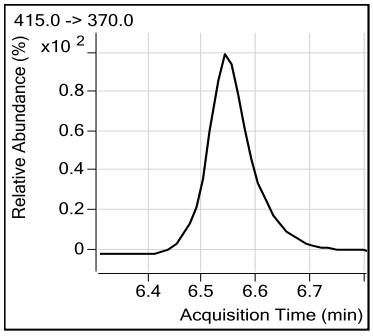


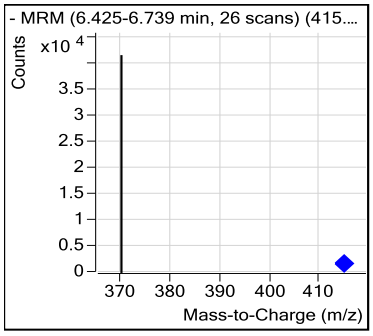




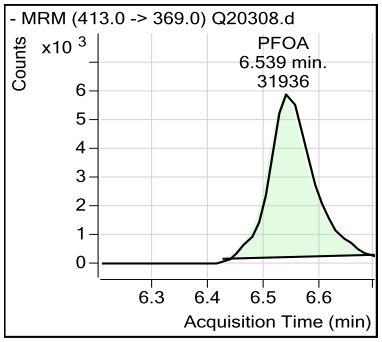
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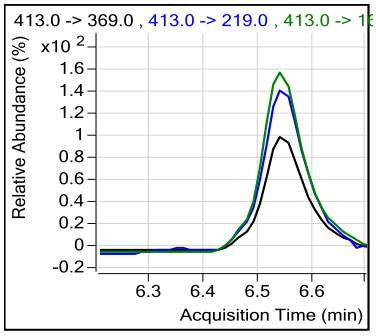


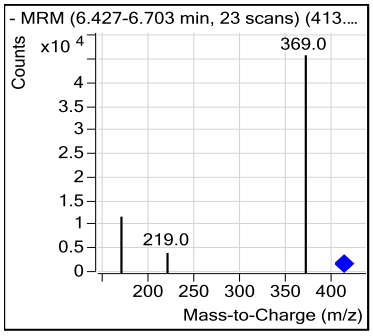




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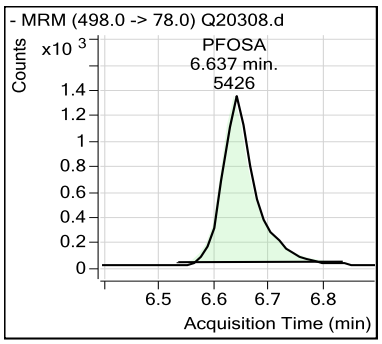


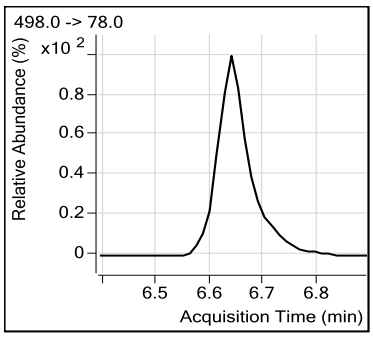


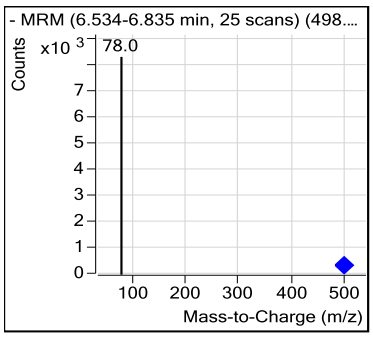
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

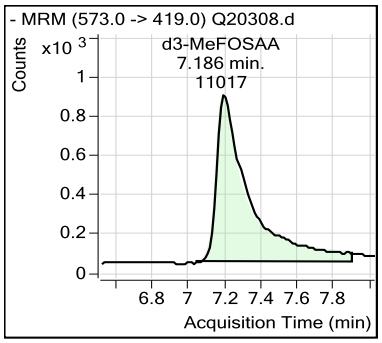
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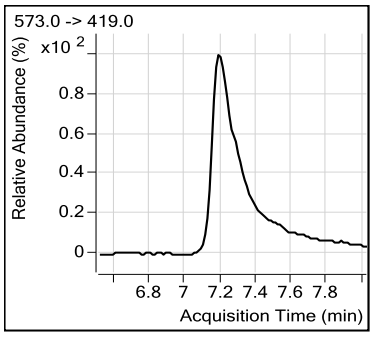


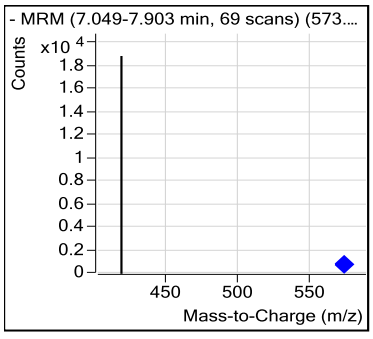




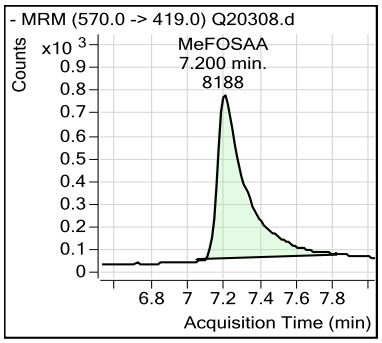
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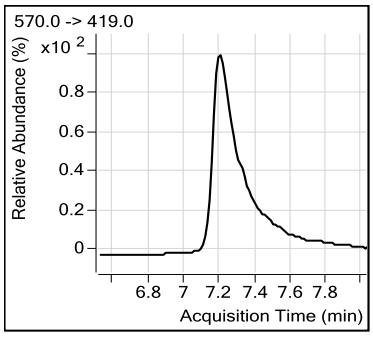


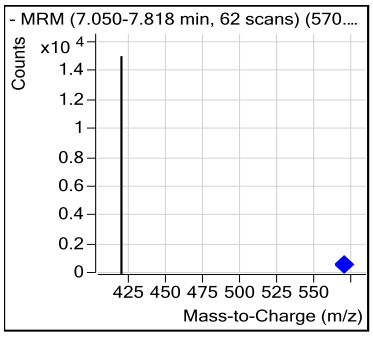




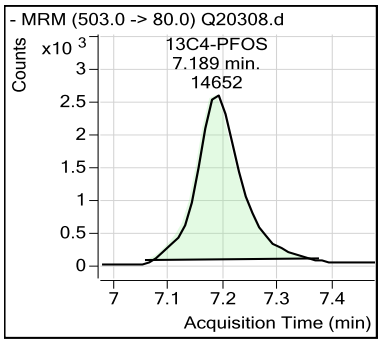
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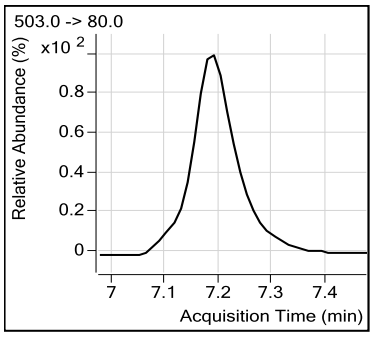


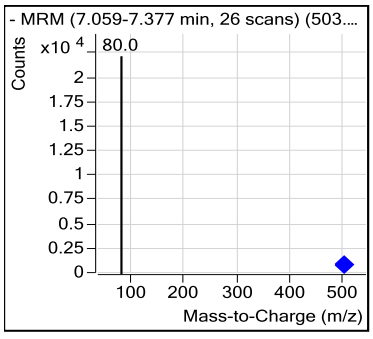




13C4-PFOS

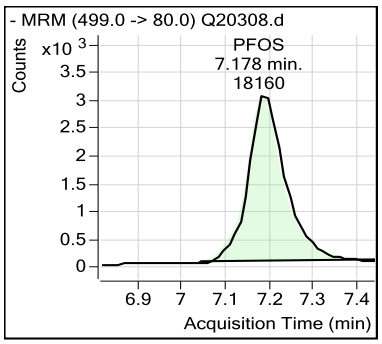


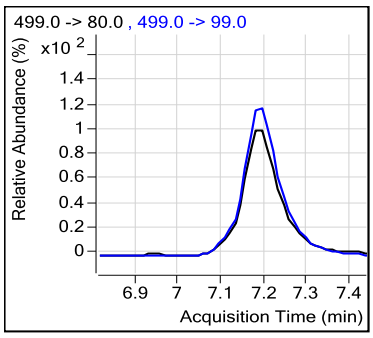


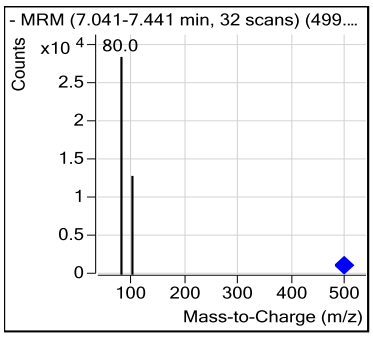


Perfluorinated Compounds by LC/MS/MS.

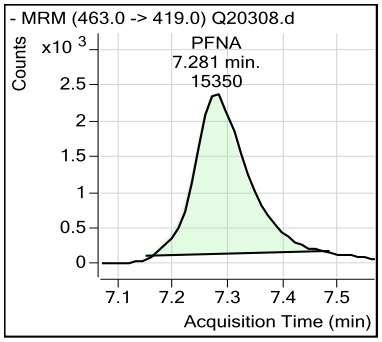
PFOS

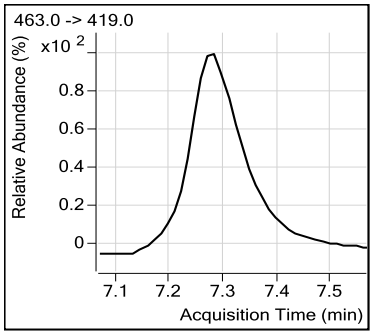


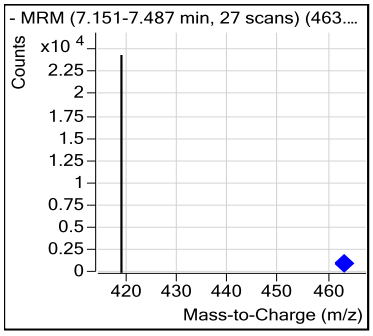




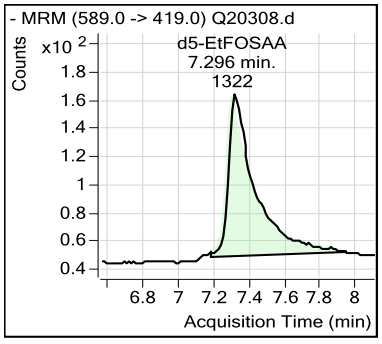
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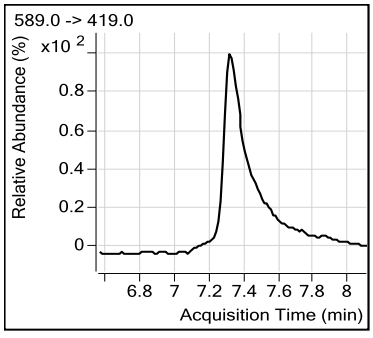


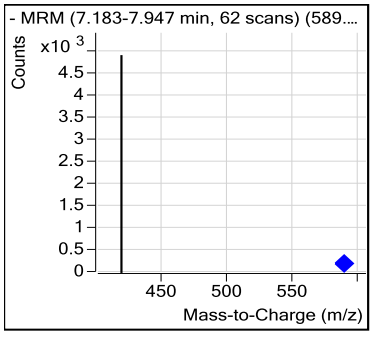




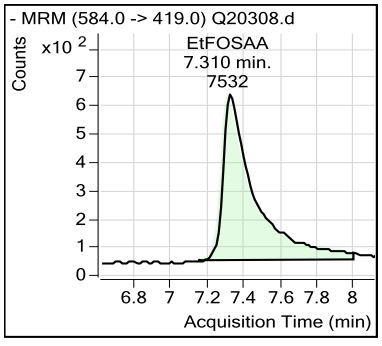
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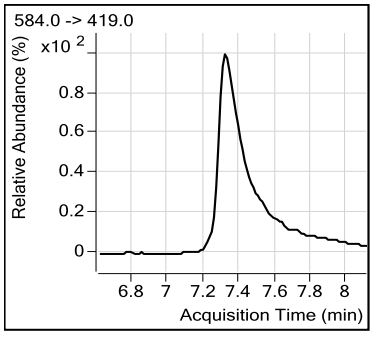


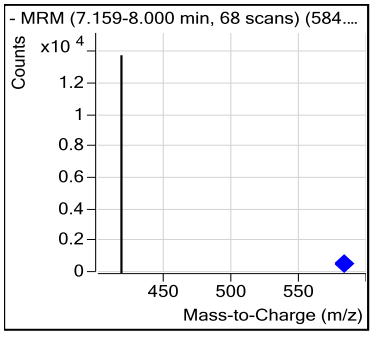




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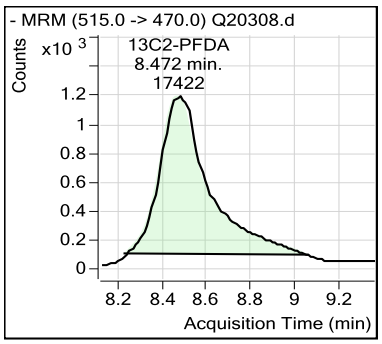


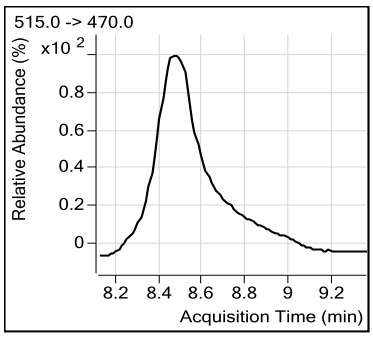


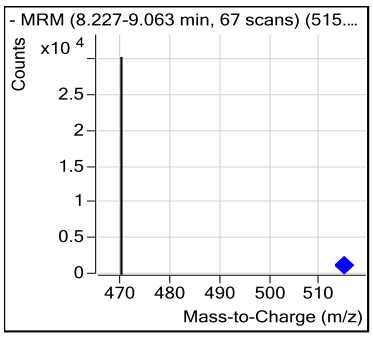


Perfluorinated Compounds by LC/MS/MS.

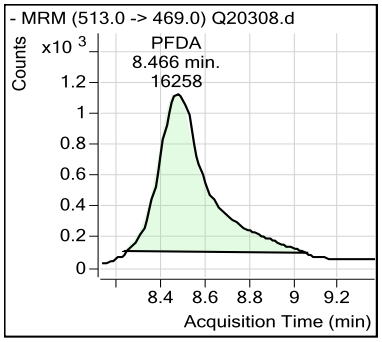
13C2-PFDA

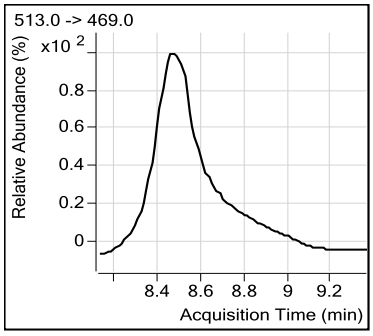


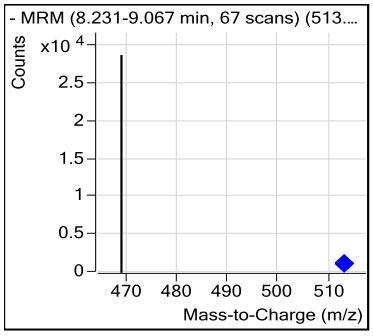




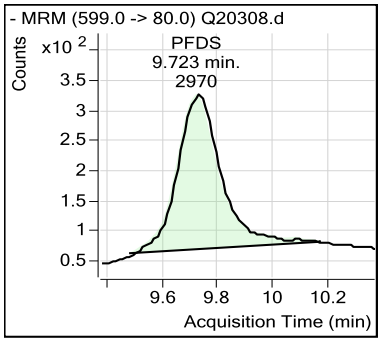
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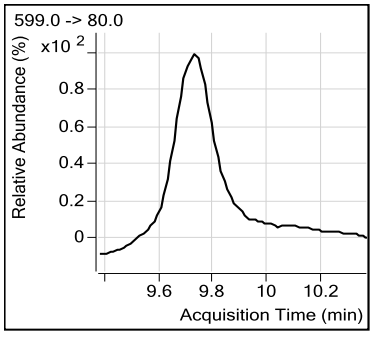


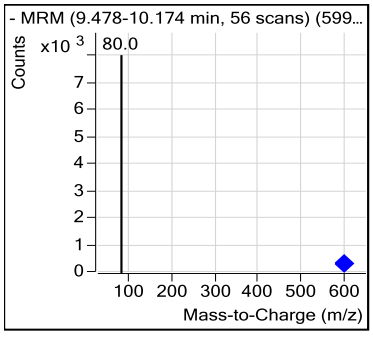




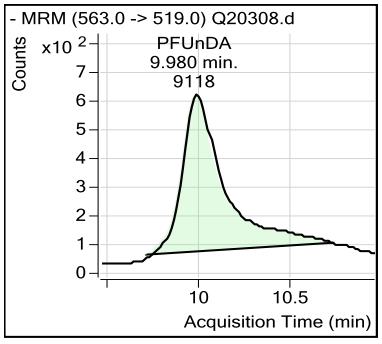
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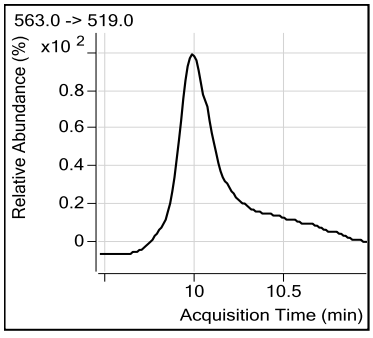


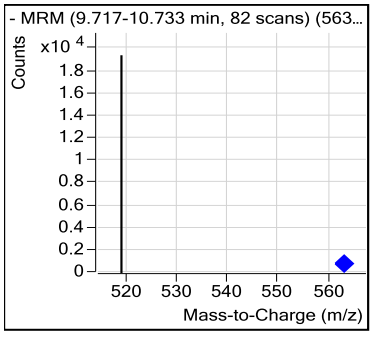




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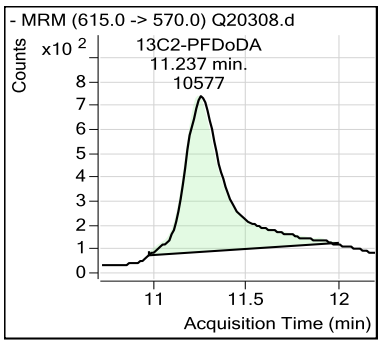


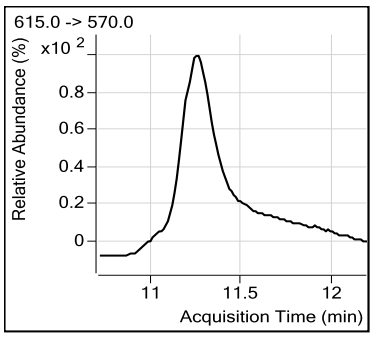


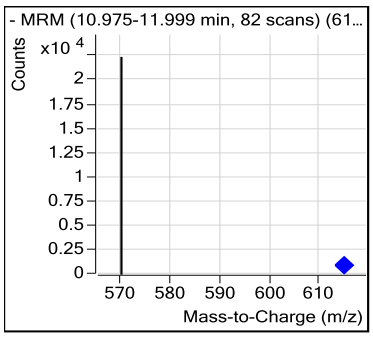
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

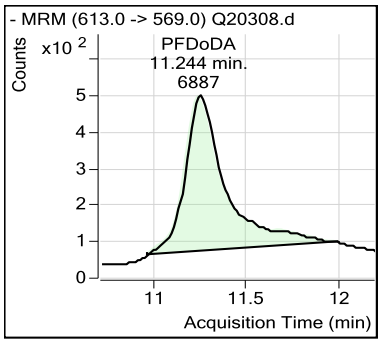
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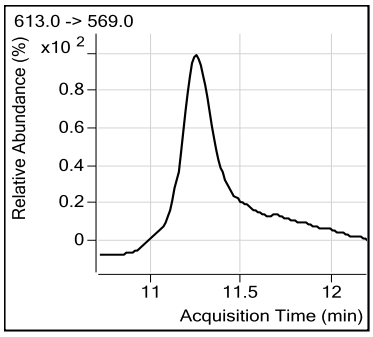


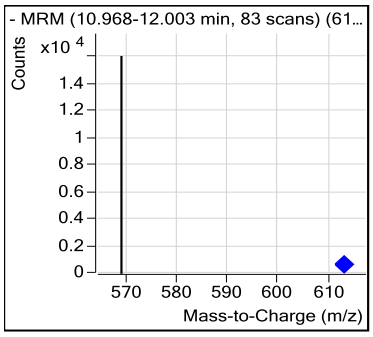




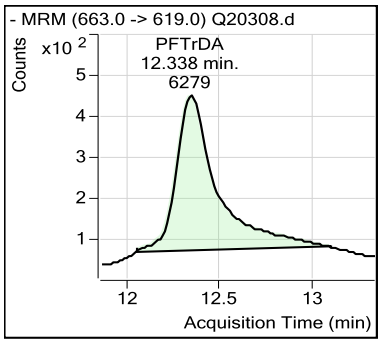
PFDoDA

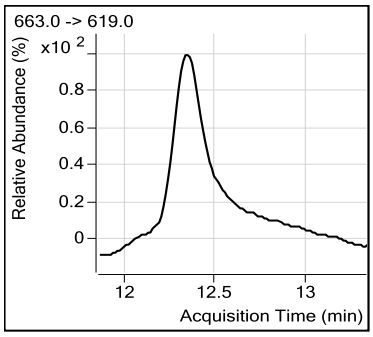


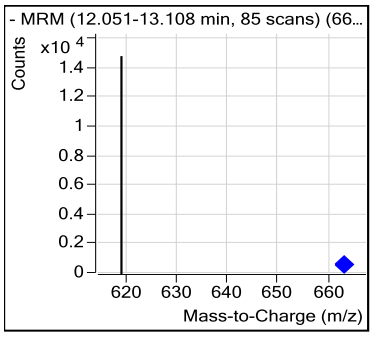




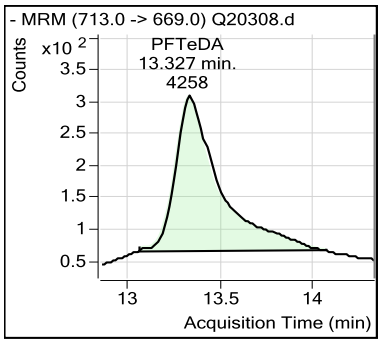
PFTrDA

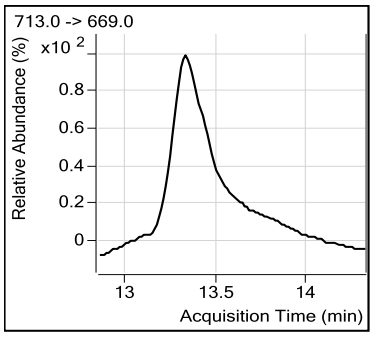


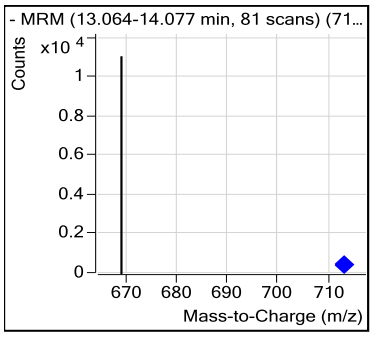




PFTeDA







SGS ACCUTEST
FA32826

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20321.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 17:32
Sample Name	:	OP59984-MS
Vial	:	Vial 15
Sample Info	:	OP59984,SQ608,130,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

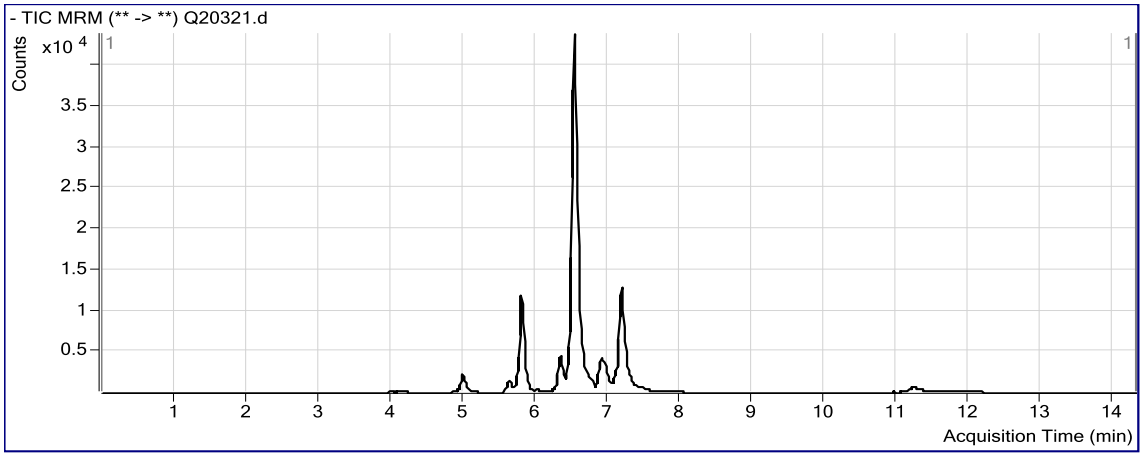
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	25947	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	9728	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	14475	20.000	µg/L		-0.012
13C2-PFDoDA	11.225	615.0 -> 570.0	9593	20.000	µg/L		-0.087
System Monitoring Compounds							
d5-EtFOSAA	7.296	589.0 -> 419.0	442	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFBA	3.315	213.0 -> 169.0	265	0.676	µg/L		100
PFPeA	3.999	263.0 -> 219.0	284	2.359	µg/L		100
PFBS	4.128	299.0 -> 80.0	650	2.663	µg/L		97
PFHxA	4.983	313.0 -> 269.0	11138	33.429	µg/L		99
PFHxS	5.793	399.0 -> 80.0	33765	79.215	µg/L	m	84
PFHpA	5.810	363.0 -> 319.0	7966	12.866	µg/L	#	69
PFHpS	6.483	449.0 -> 80.0	665	1.434	µg/L		100
PFOA	6.527	413.0 -> 369.0	195402	161.833	µg/L	m	76
PFOS	7.178	499.0 -> 80.0	61107	81.749	µg/L	m	97
MeFOSAA	7.200	570.0 -> 419.0	523	0.000	µg/L		100
PFNA	7.269	463.0 -> 419.0	1207	2.054	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	591	0.000	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

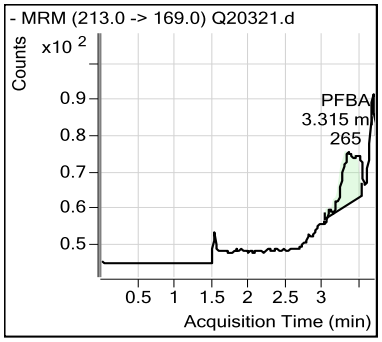
SGS ACCUTEST FA32826

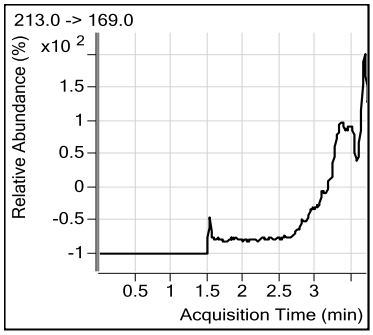
Perfluorinated Compounds by LC/MS/MS.

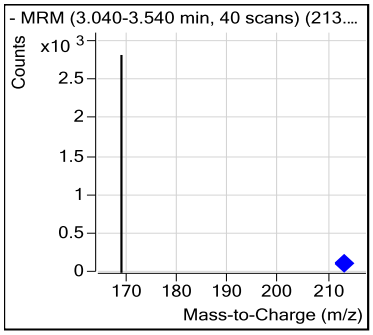
Data File	:	Q20321.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 17:32
Sample Name	:	OP59984-MS
Vial	:	Vial 15
Sample Info	:	OP59984,SQ608,130,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



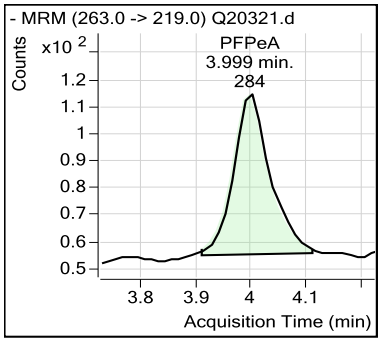
PFBA

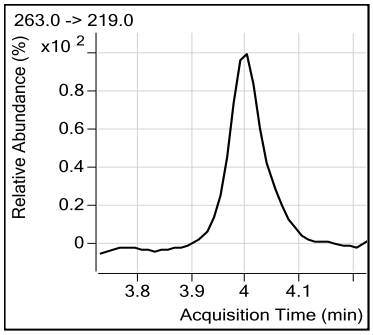


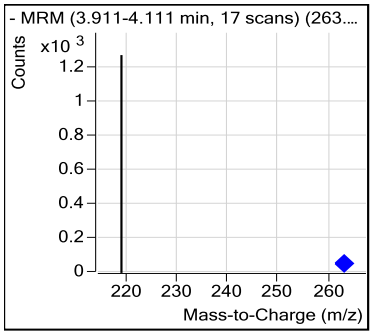




PFPeA

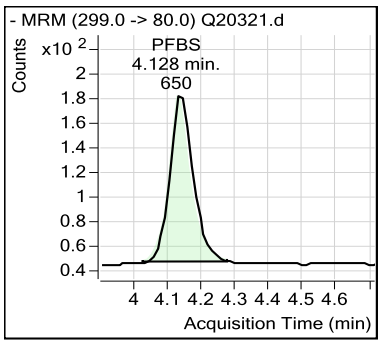


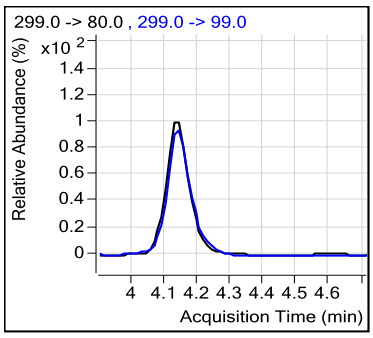


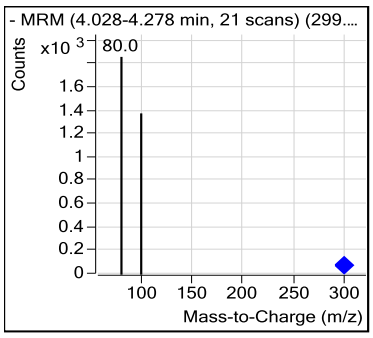


Perfluorinated Compounds by LC/MS/MS.

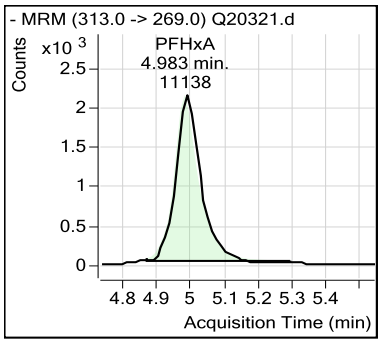
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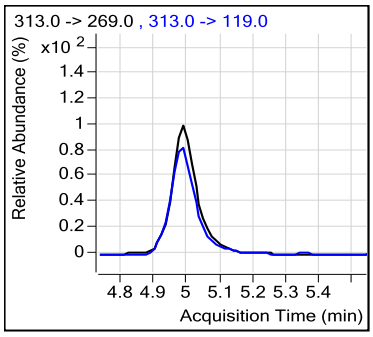


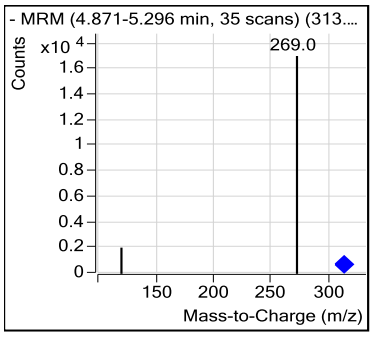




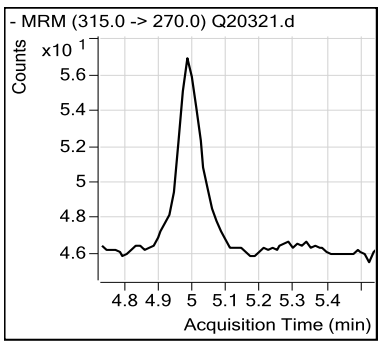
PFHxA

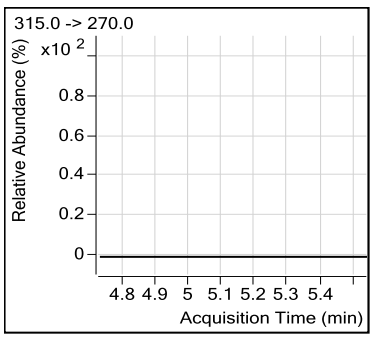


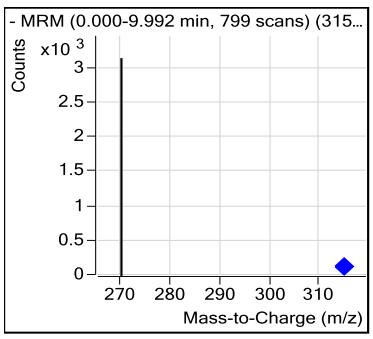




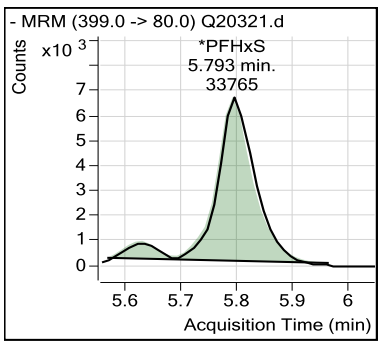
13C2-PFHxA

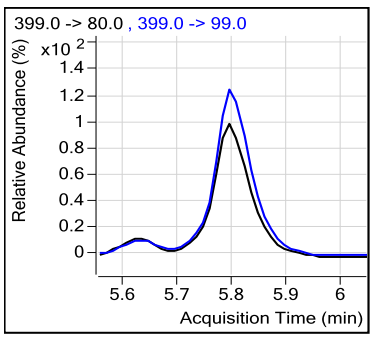


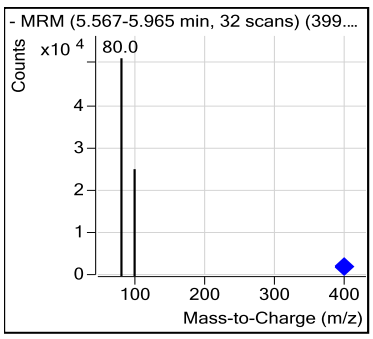




PFHxS

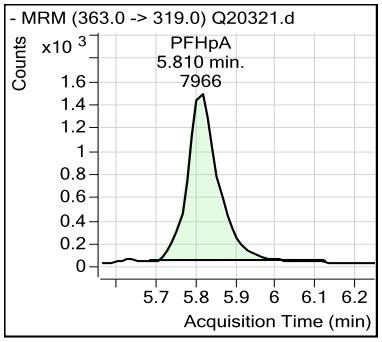


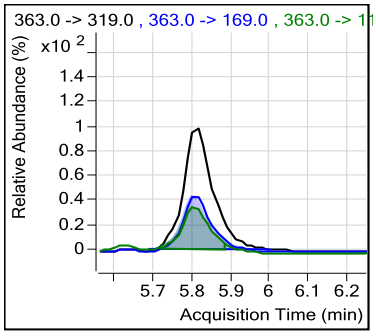


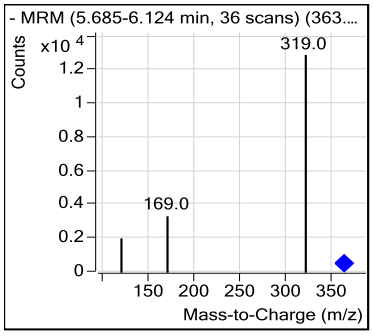


Perfluorinated Compounds by LC/MS/MS.

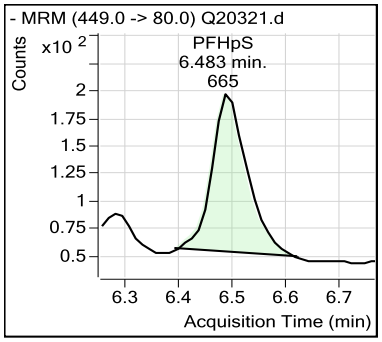
PFHpA

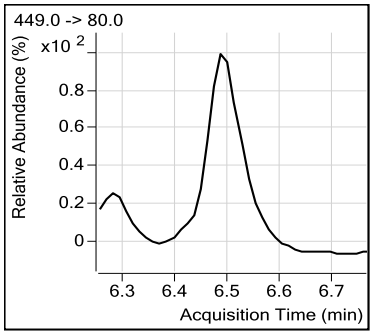


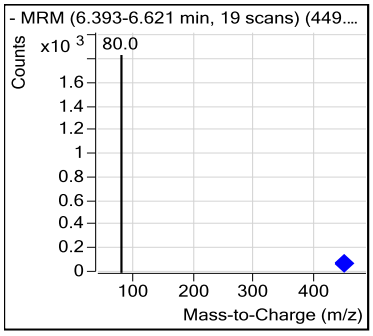




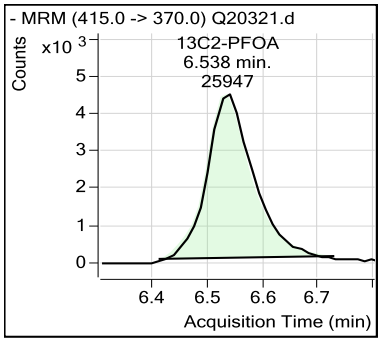
PFHpS

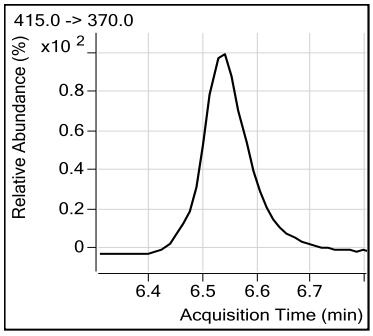


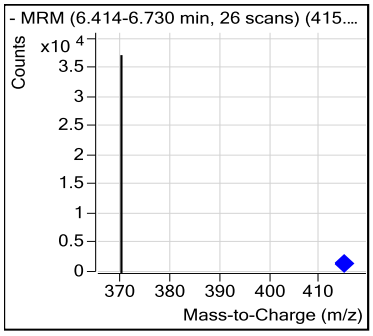




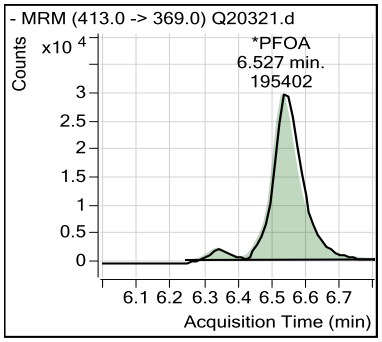
13C2-PFOA

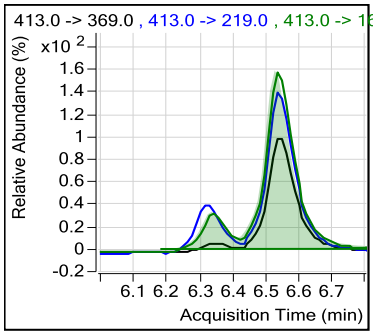


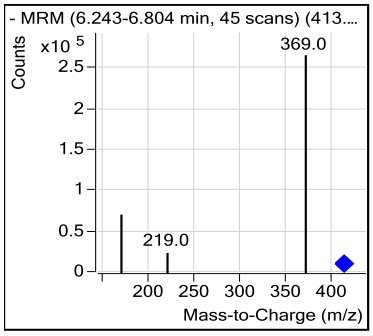




PFOA

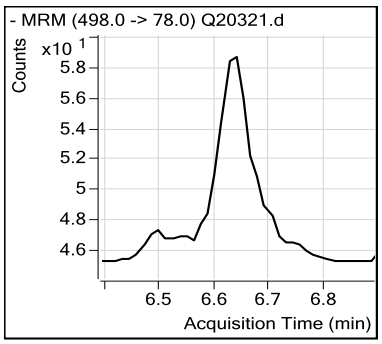


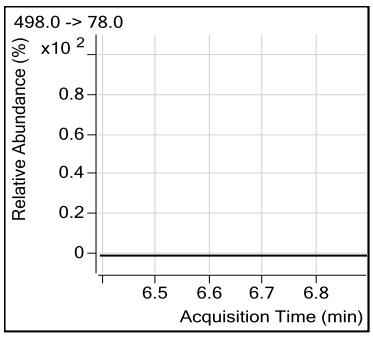


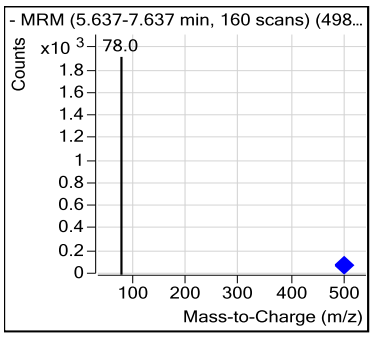


Perfluorinated Compounds by LC/MS/MS.

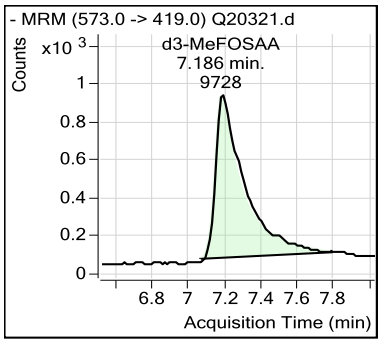
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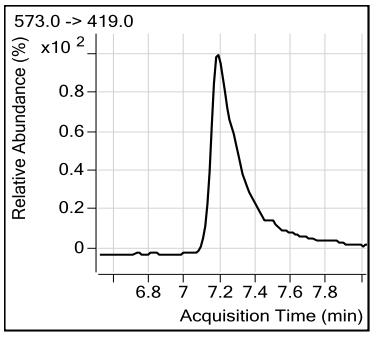


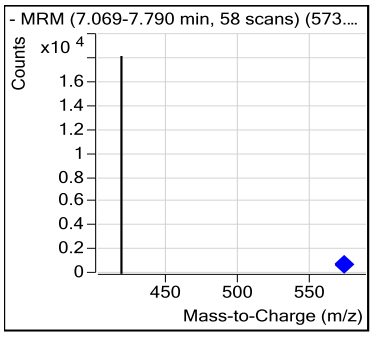




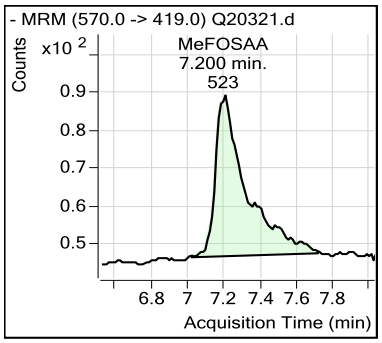
d3-MeFOSAA

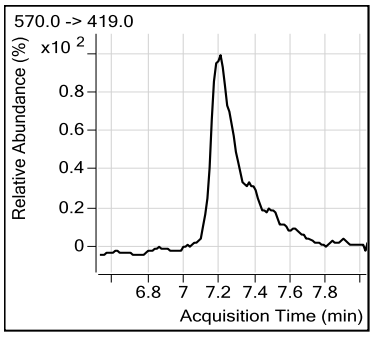


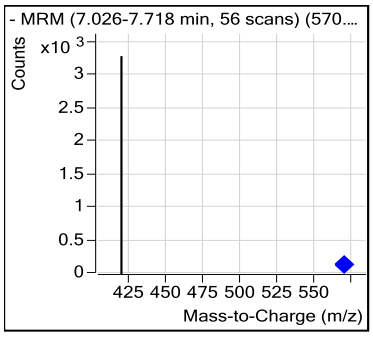




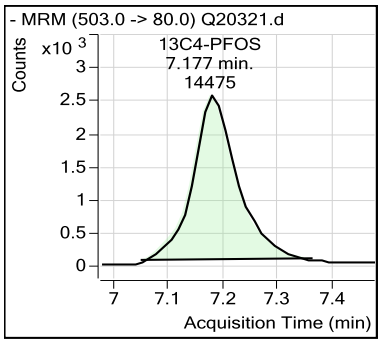
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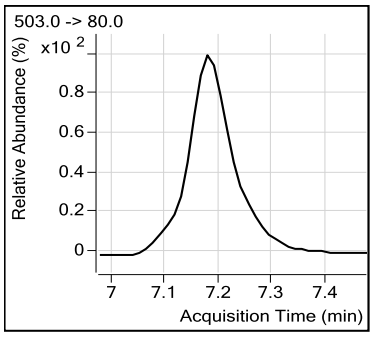


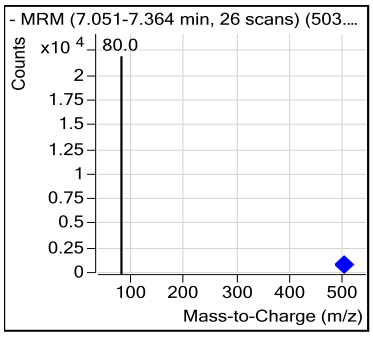




13C4-PFOS

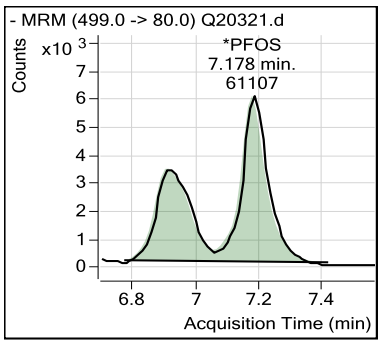


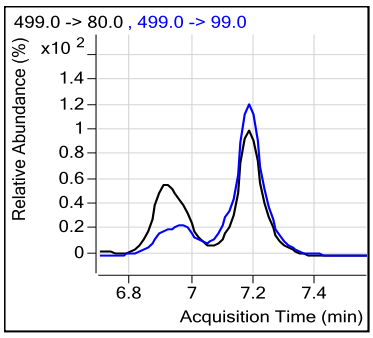


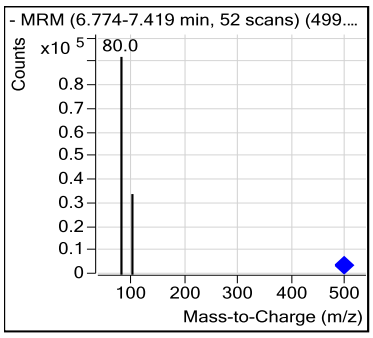


Perfluorinated Compounds by LC/MS/MS.

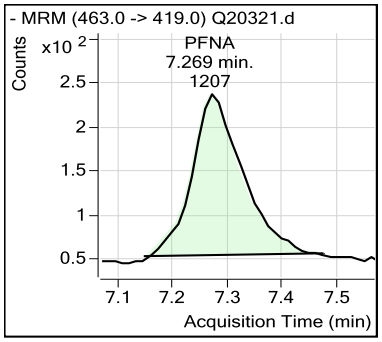
PFOS

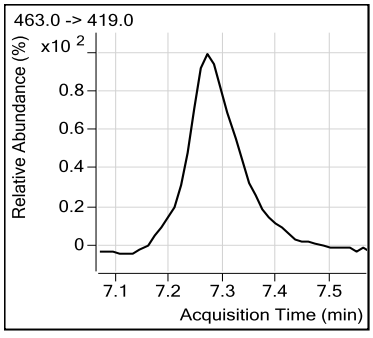


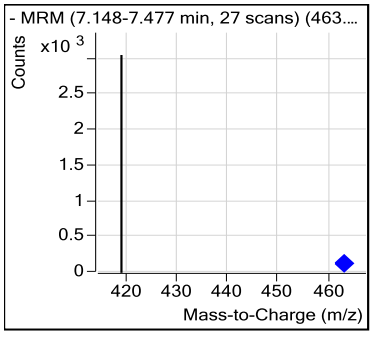




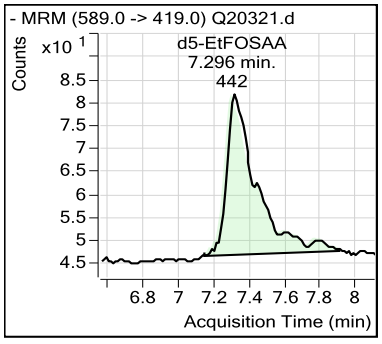
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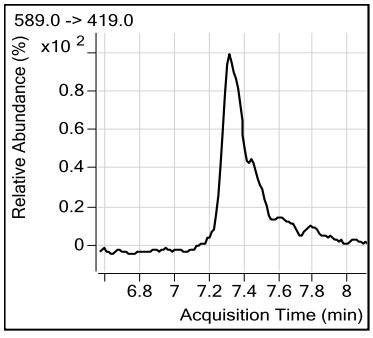


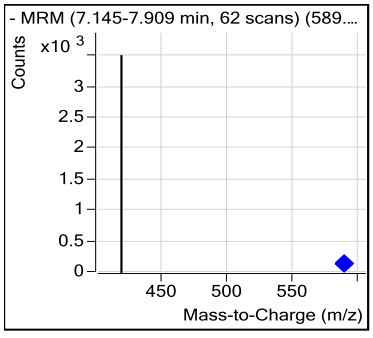




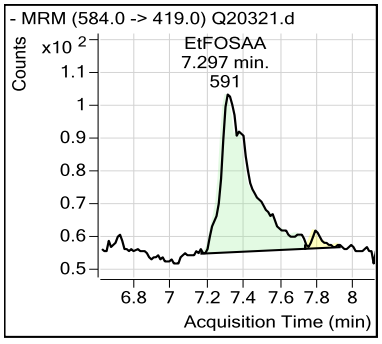
d5-EtFOSAA

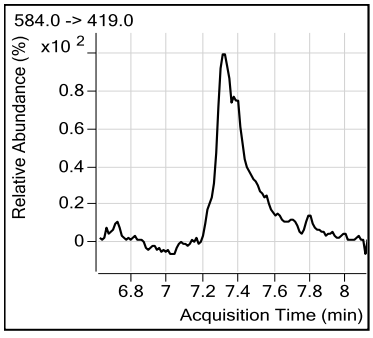


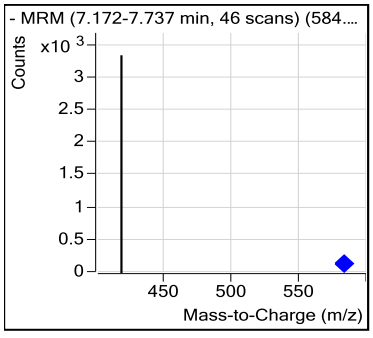




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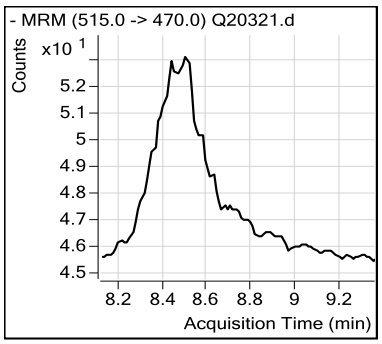


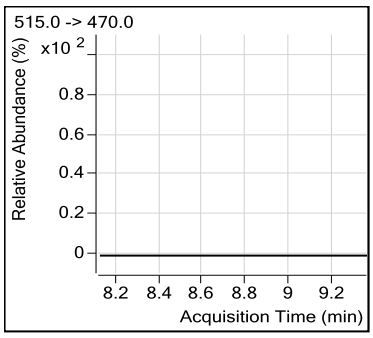


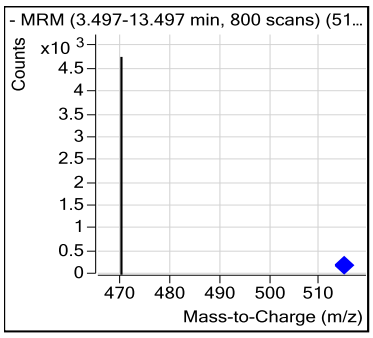


Perfluorinated Compounds by LC/MS/MS.

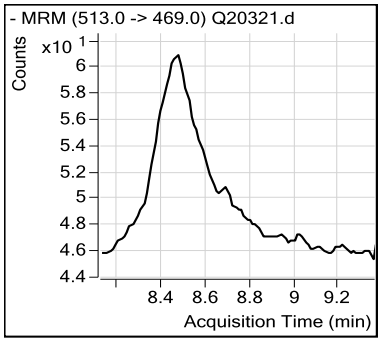
13C2-PFDA

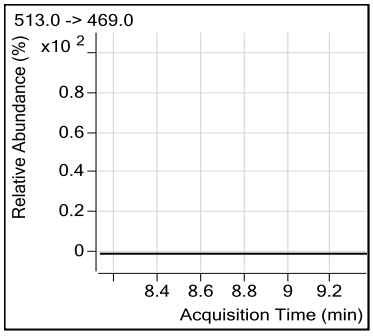


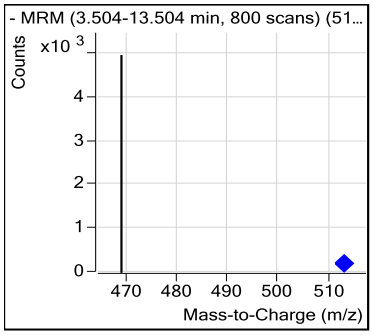




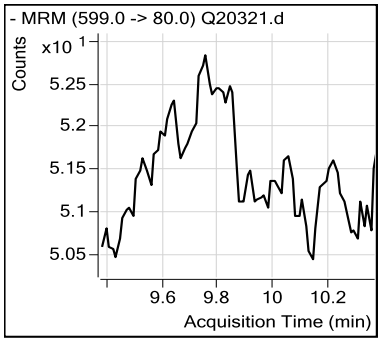
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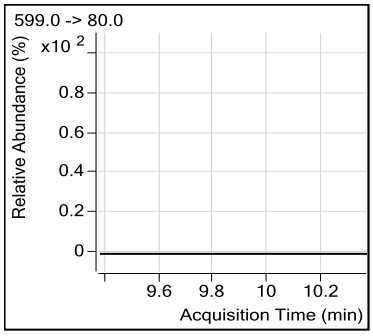


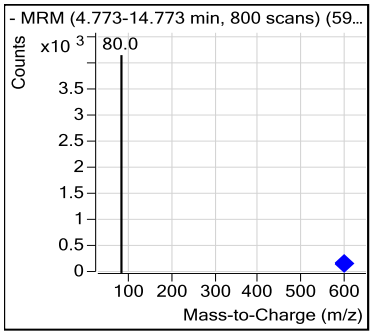




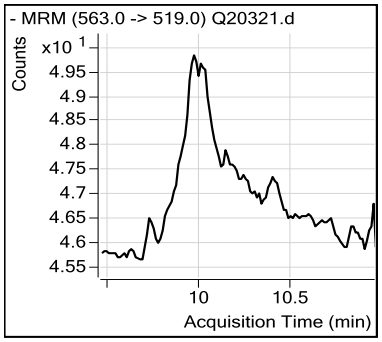
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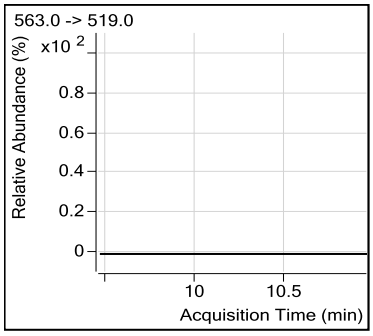


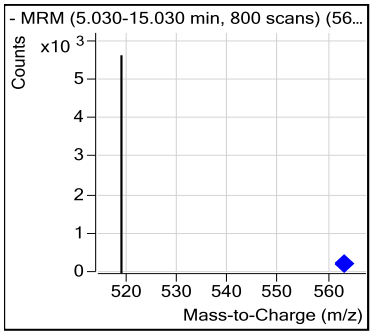




PFUnDA

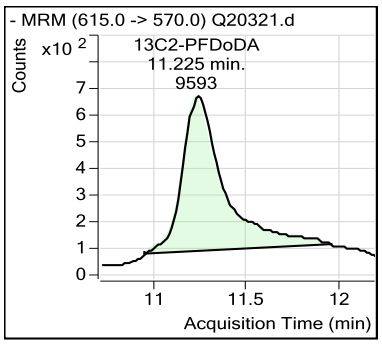


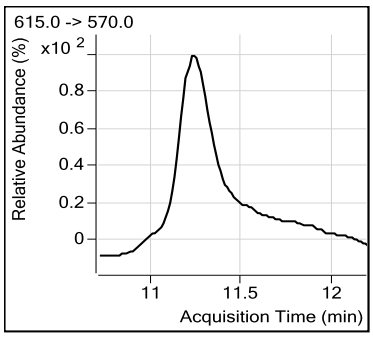


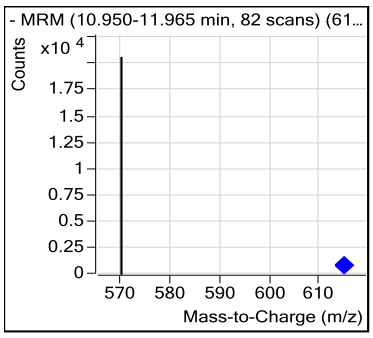


Perfluorinated Compounds by LC/MS/MS.

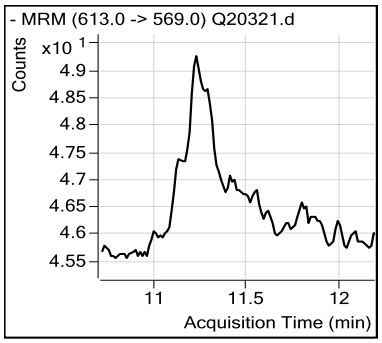
13C2-PFDoDA

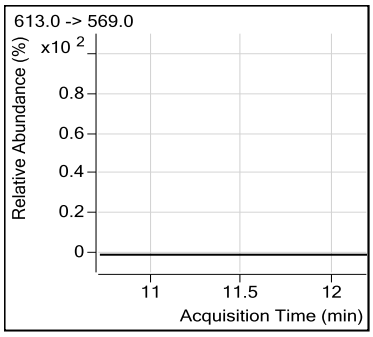


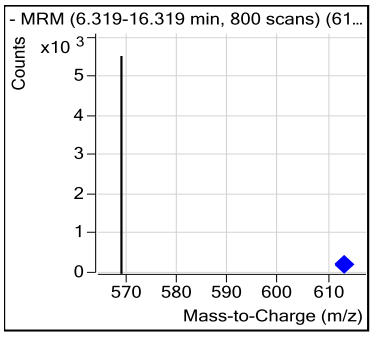




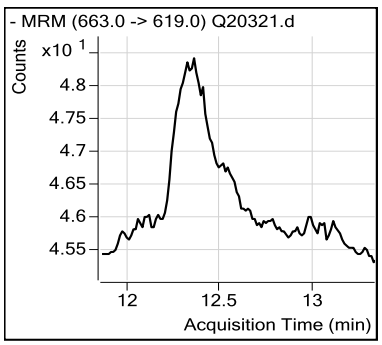
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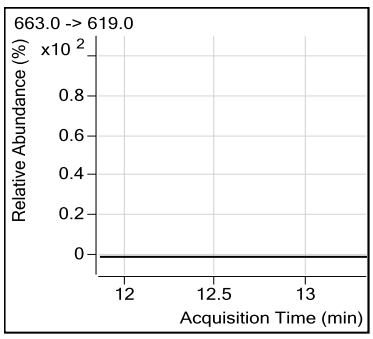


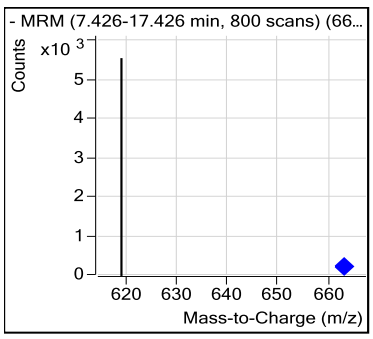




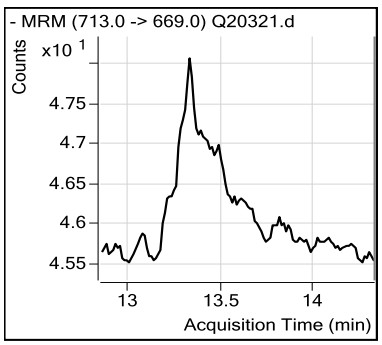
PFTrDA

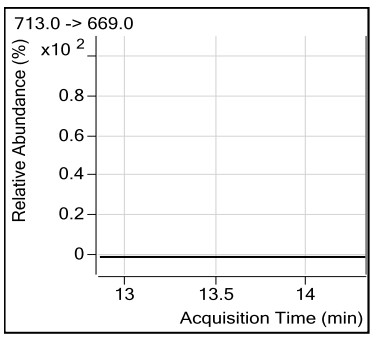


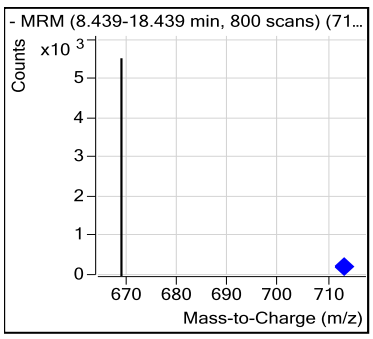




PFTeDA







Manual Integration Approval Summary

Sample Number:	OP59984-MS	**Method:**	EPA 537 MOD	
Lab FileID:	Q20321.D	**Analyst approved:**	04/14/16 16:26	Nancy Saunders
Injection Time:	04/13/16 17:32	**Supervisor approved:**	04/14/16 17:22	Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluorooctanoic acid	335-67-1		6.53	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.18	Split peak

SGS ACCUTEST
FA32826

Manual Integrations APPROVED (compounds with "m" flag)
Naresh Jiawan 04/14/16 17:22

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20322.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 17:53
Sample Name	:	OP59984-MSD
Vial	:	Vial 16
Sample Info	:	OP59984,SQ608,130,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

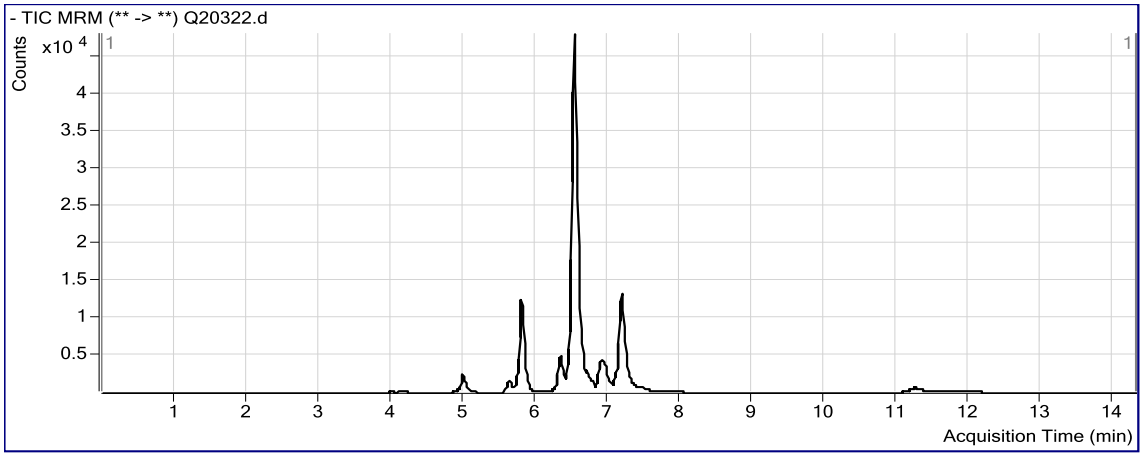
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	27339	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	10534	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	15664	20.000	µg/L		-0.012
13C2-PFDoDA	11.238	615.0 -> 570.0	10083	20.000	µg/L		-0.075
System Monitoring Compounds							
d5-EtFOSAA	7.283	589.0 -> 419.0	349	0.00	µg/L		-0.012
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFBA	3.415	213.0 -> 169.0	0	0.000	µg/L	m	1
PFPeA	3.986	263.0 -> 219.0	345	2.722	µg/L		100
PFBS	4.128	299.0 -> 80.0	686	2.595	µg/L		98
PFHxA	4.983	313.0 -> 269.0	11594	33.023	µg/L		98
PFHxS	5.793	399.0 -> 80.0	36500	79.129	µg/L	m	87
PFHpA	5.810	363.0 -> 319.0	8380	12.845	µg/L	#	70
PFHpS	6.483	449.0 -> 80.0	765	1.525	µg/L		100
PFOA	6.539	413.0 -> 369.0	217681	171.107	µg/L	m	76
PFOS	7.178	499.0 -> 80.0	64080	79.215	µg/L	m	97
MeFOSAA	7.200	570.0 -> 419.0	395	0.000	µg/L		100
PFNA	7.269	463.0 -> 419.0	1287	2.077	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	421	0.000	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

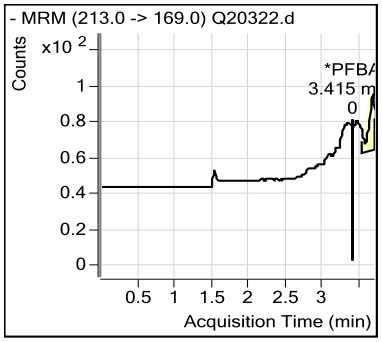
SGS ACCUTEST FA32826

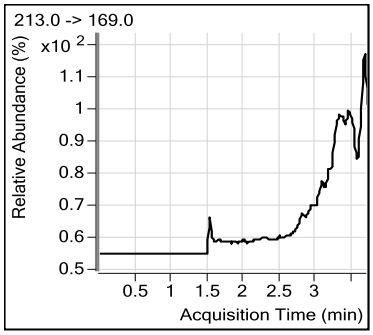
Perfluorinated Compounds by LC/MS/MS.

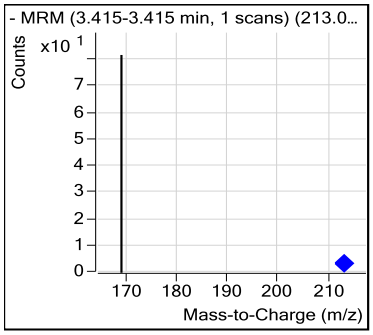
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Operator	:	NANCYF
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Acquisition date	:	2016-04-13 17:53
Sample Name	:	OP59984-MSD
Vial	:	Vial 16
Sample Info	:	OP59984,SQ608,130,,,1.0,200,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



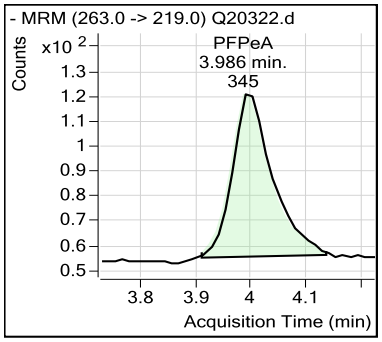
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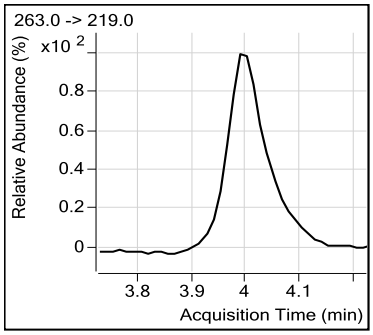


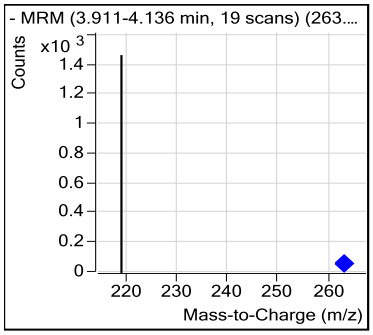




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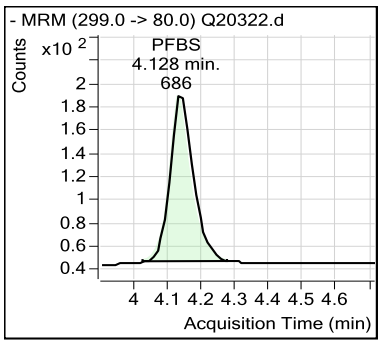


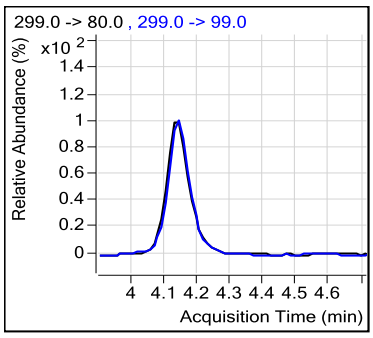


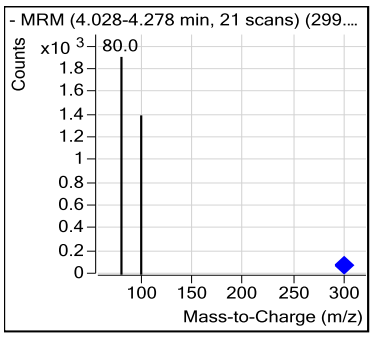


Perfluorinated Compounds by LC/MS/MS.

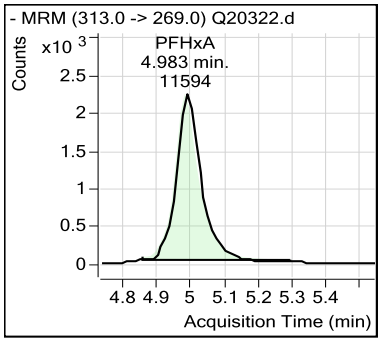
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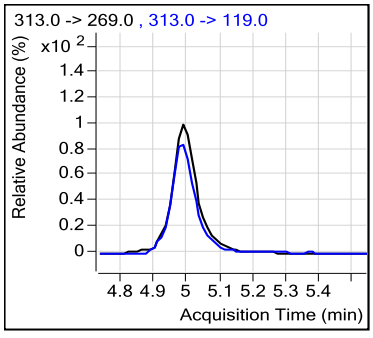


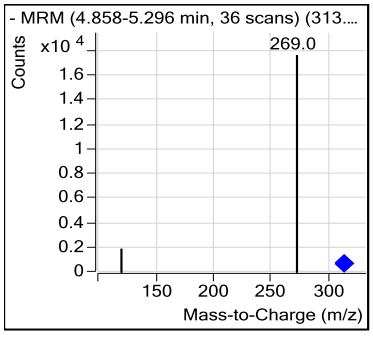




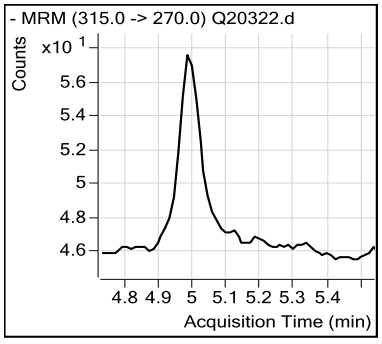
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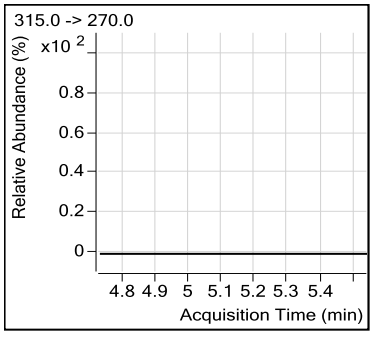


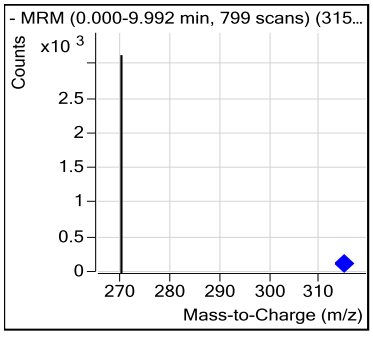




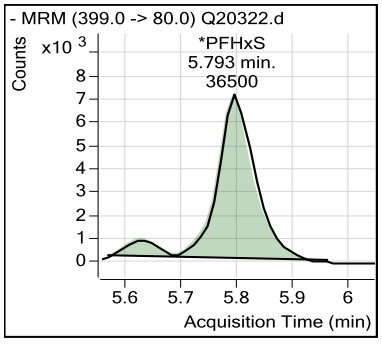
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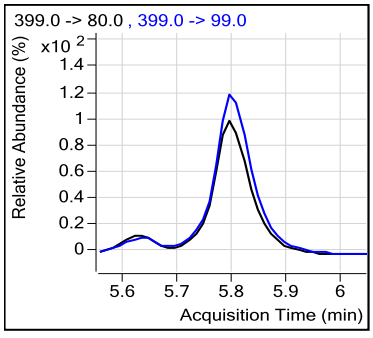


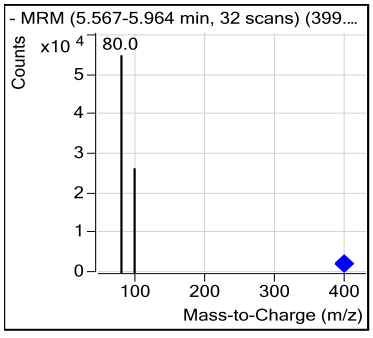




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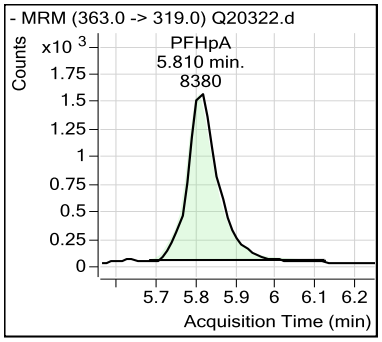


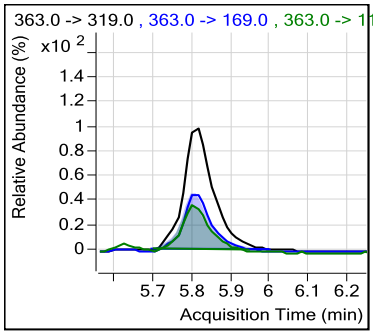


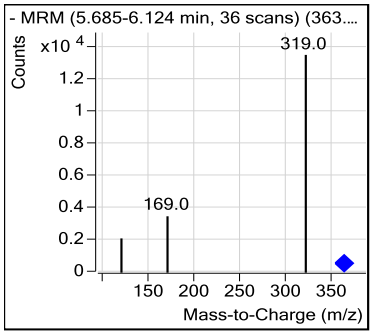


Perfluorinated Compounds by LC/MS/MS.

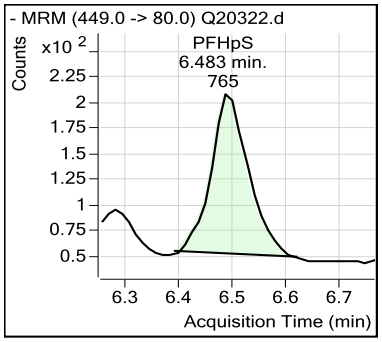
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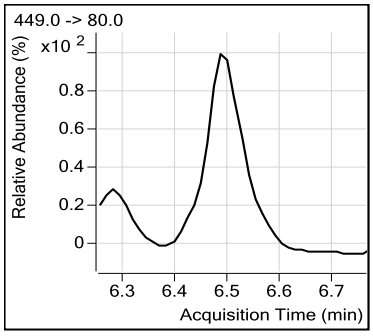


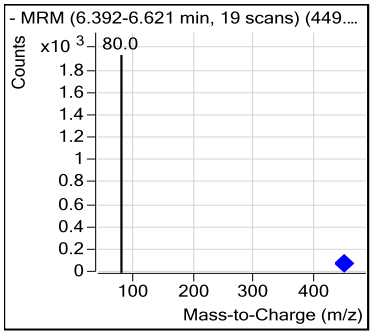




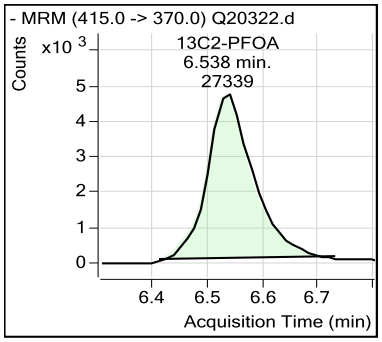
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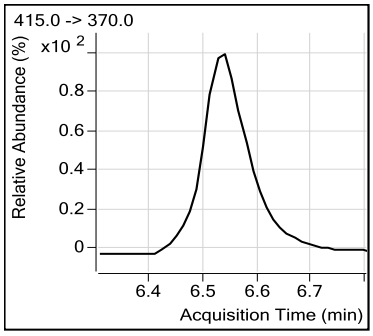


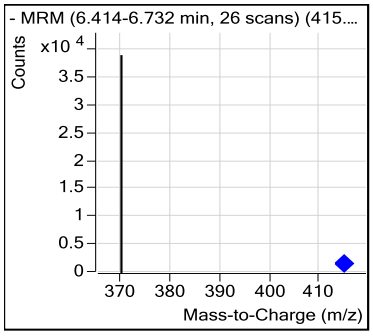




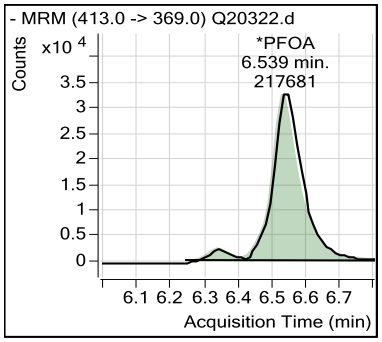
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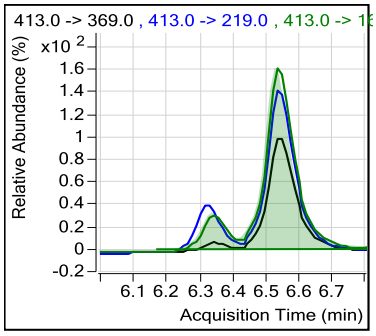


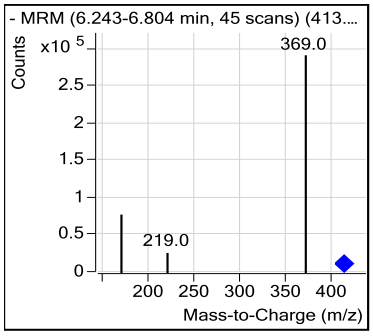




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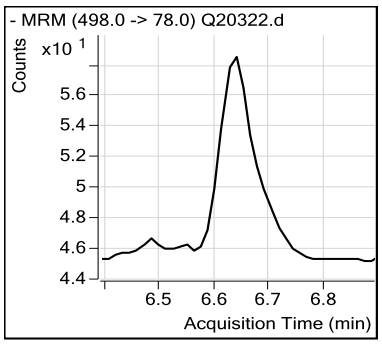


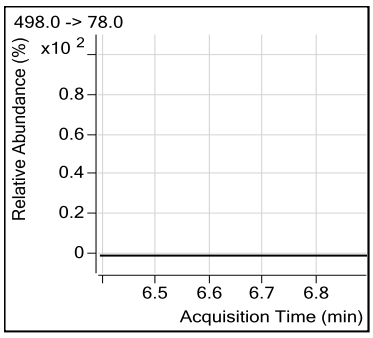


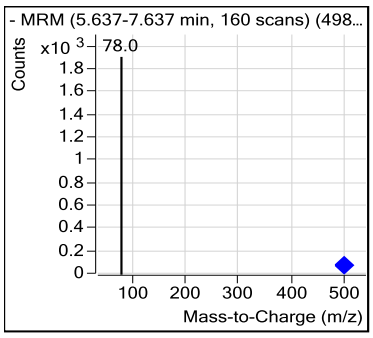


Perfluorinated Compounds by LC/MS/MS.

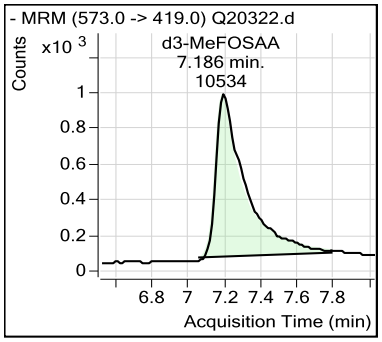
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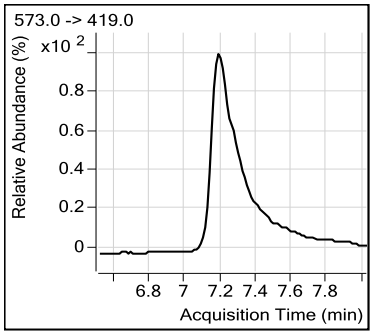


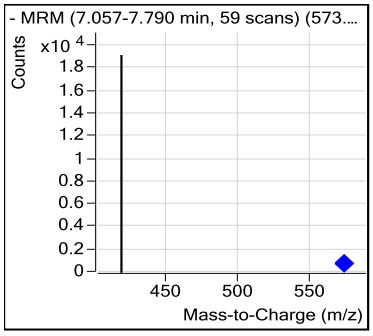




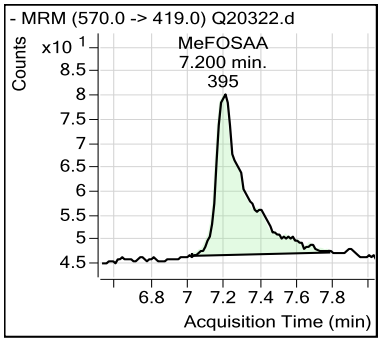
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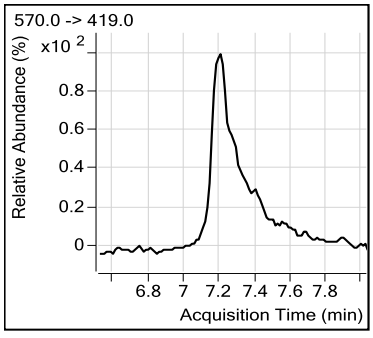


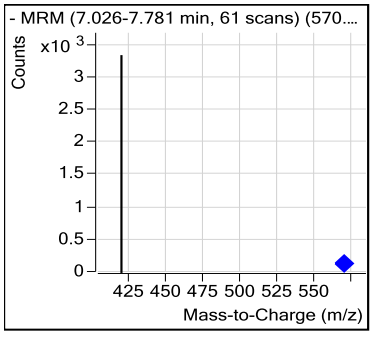




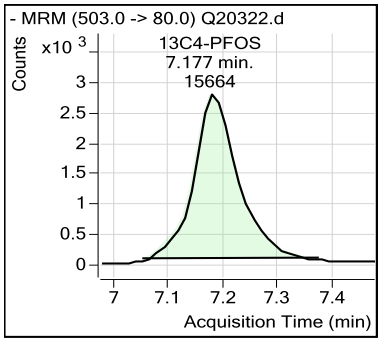
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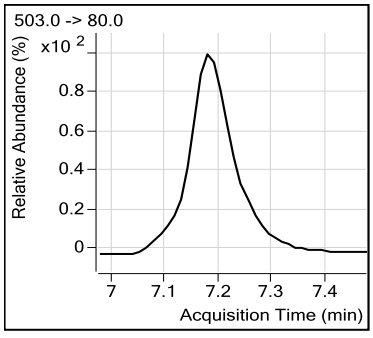


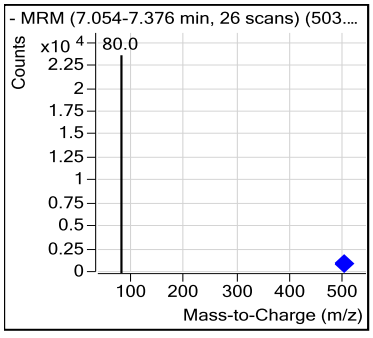




13C4-PFOS



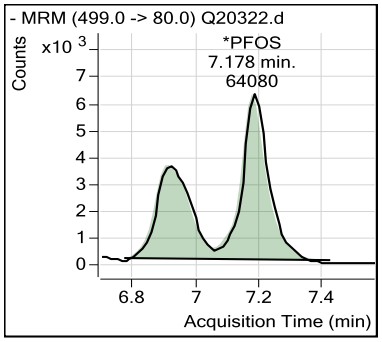


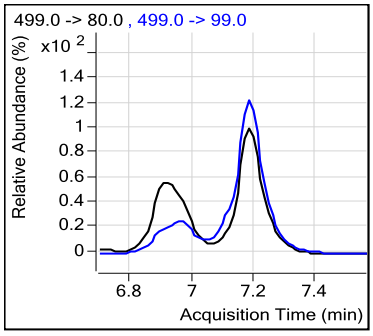


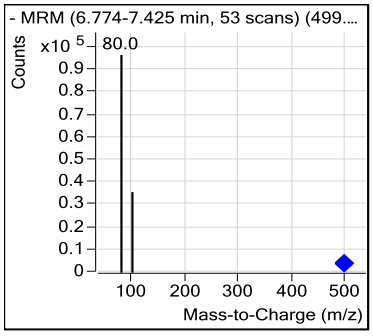
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

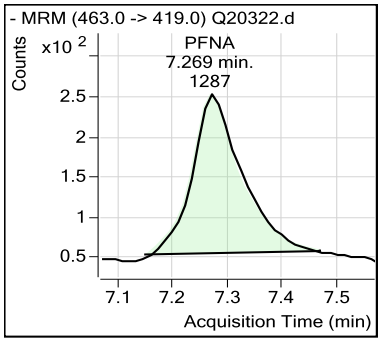
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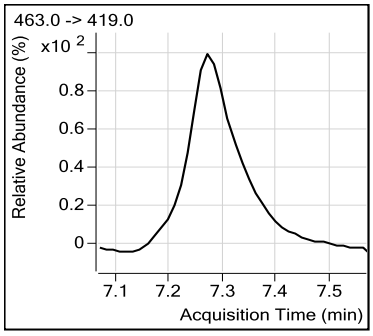


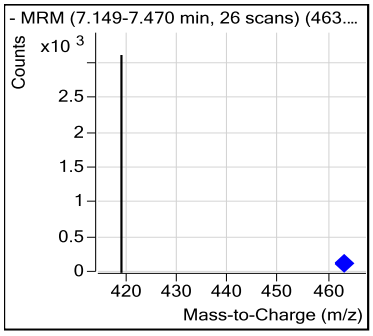




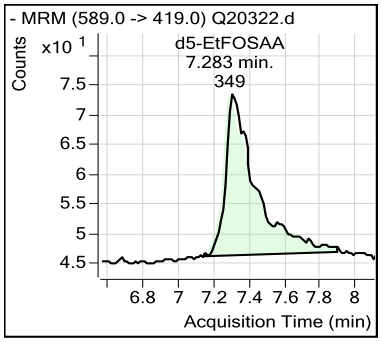
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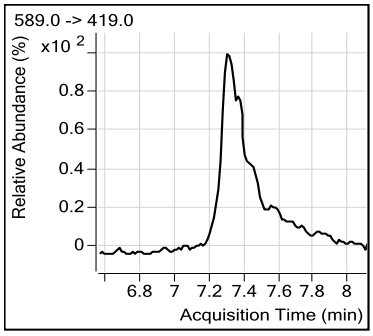


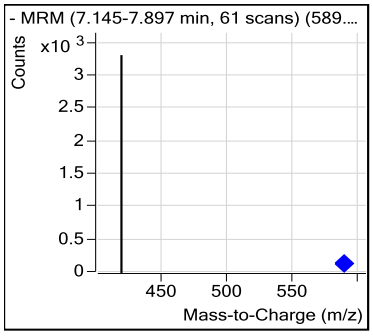




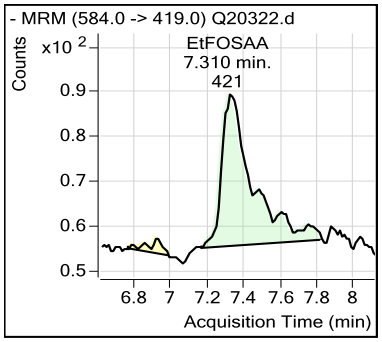
d5-EtFOSAA

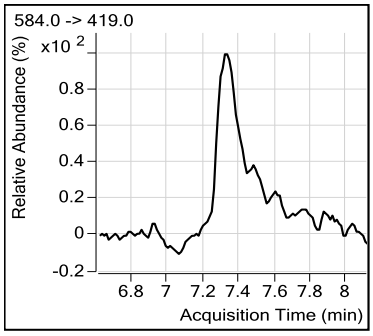


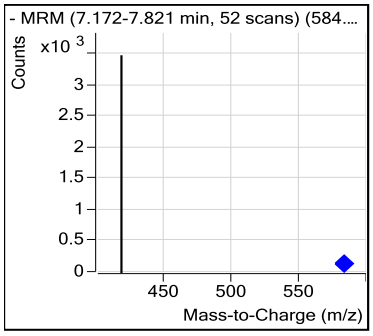




EtFOSAA



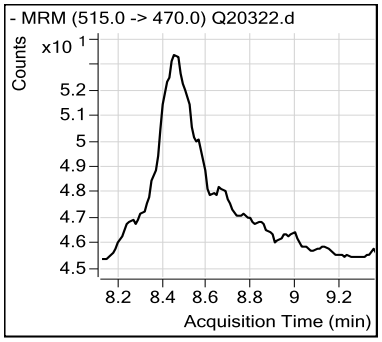


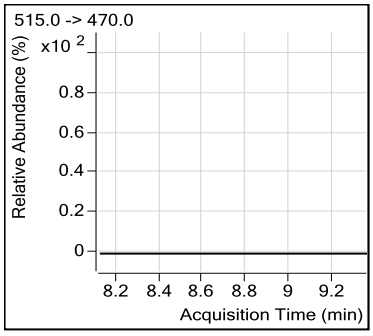


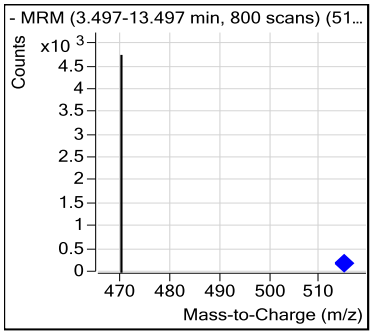
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

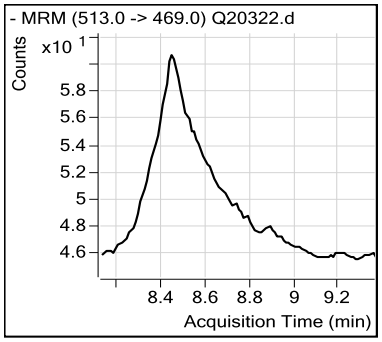
13C2-PFDA

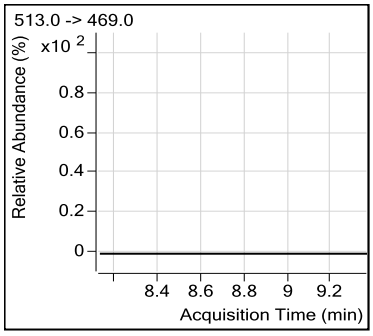


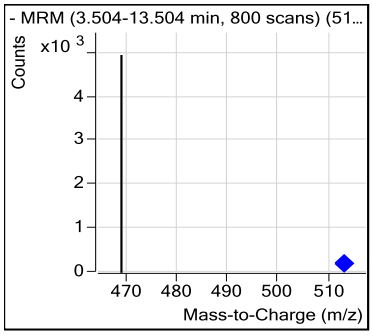




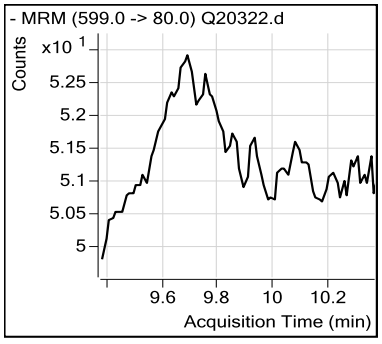
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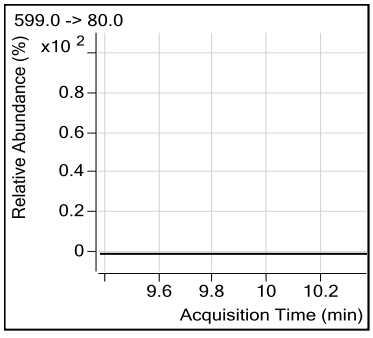


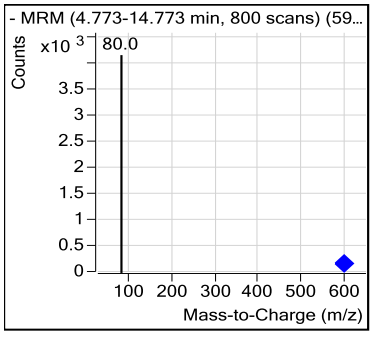




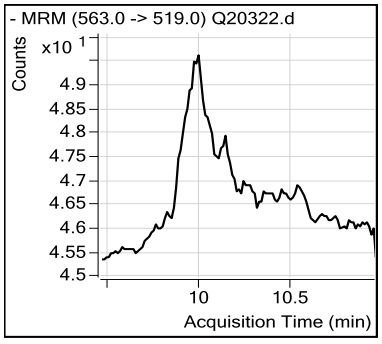
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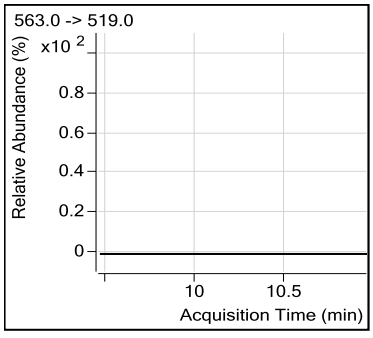


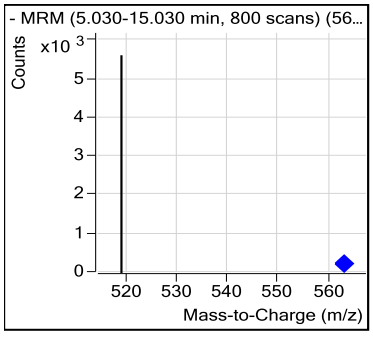




PFUnDA

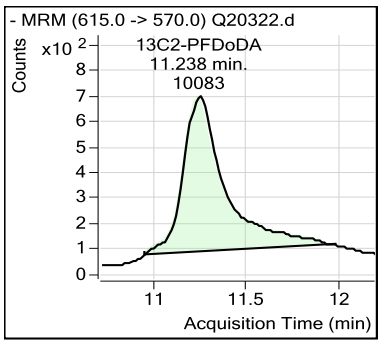


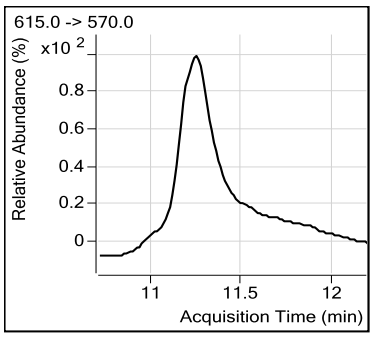


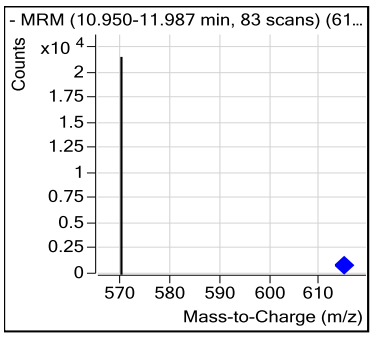


Perfluorinated Compounds by LC/MS/MS.

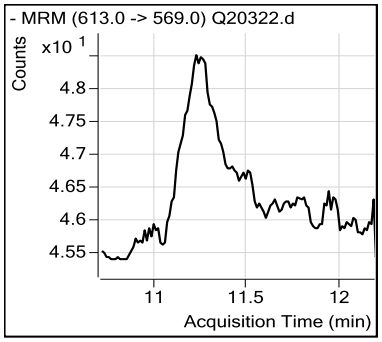
13C2-PFDoDA

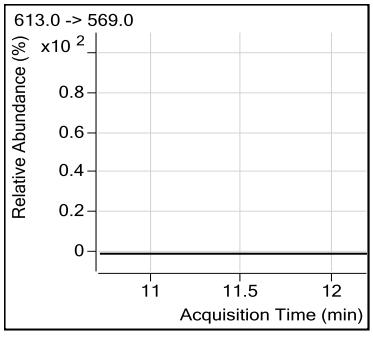


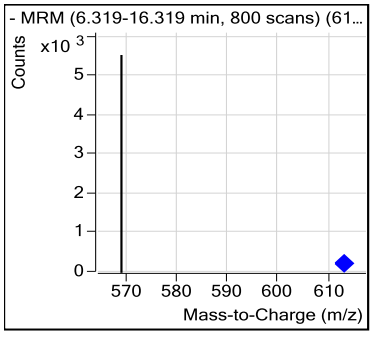




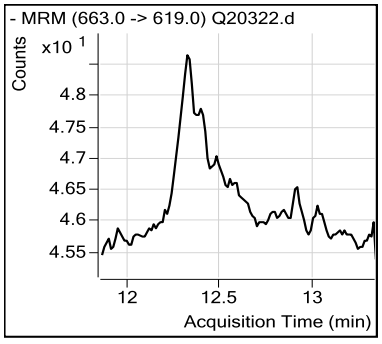
PFDoDA

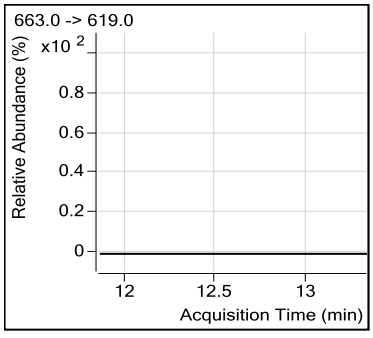


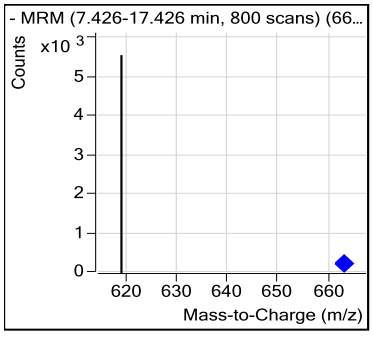




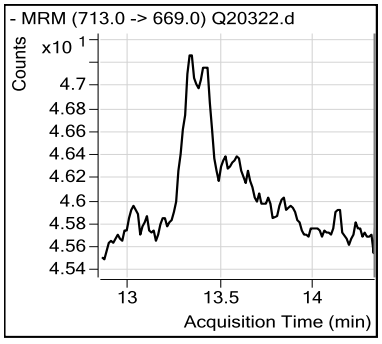
PFTrDA

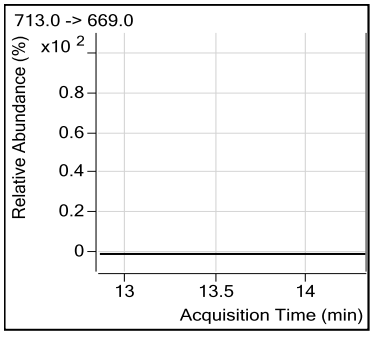


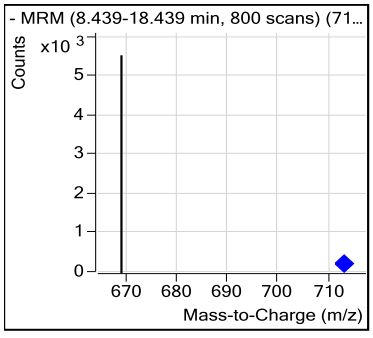




PFTeDA







Manual Integration Approval Summary

Sample Number:	OP59984-MSD	**Method:**	EPA 537 MOD
Lab FileID:	Q20322.D	**Analyst approved:**	04/14/16 16:26 Nancy Saunders
Injection Time:	04/13/16 17:53	**Supervisor approved:**	04/14/16 17:22 Naresh Jiawan

Parameter	CAS	Sig#	R.T. (min.)	Reason
Perfluorohexanesulfonic acid	355-46-4		5.79	Split peak
Perfluorooctanoic acid	335-67-1		6.54	Split peak
Perfluorooctanesulfonic acid	1763-23-1		7.18	Split peak

Perfluorinated Compounds by LC/MS/MS.

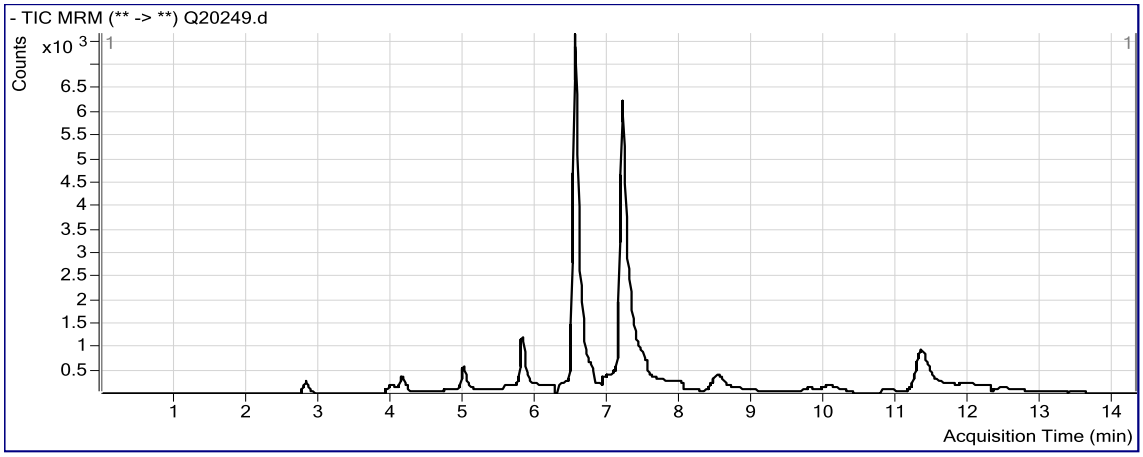
Data File	:	Q20249.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 14:20
Sample Name	:	IC607-2.5
Vial	:	Vial 2
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	32783	20.000	µg/L		0.000
d3-MeFOSAA	7.173	573.0 -> 419.0	12087	40.000	µg/L		-0.013
13C4-PFOS	7.189	503.0 -> 80.0	19588	20.000	µg/L		0.000
13C2-PFDoDA	11.325	615.0 -> 570.0	11582	20.000	µg/L		0.012
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	1103	2.61	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 13.07%				
d5-EtFOSAA	7.296	589.0 -> 419.0	2447	5.99	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 14.97%				
13C2-PFDA	8.510	515.0 -> 470.0	2662	2.64	µg/L		0.012
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 13.21%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	1347	2.716	µg/L		100
PFPeA	3.999	263.0 -> 219.0	409	2.692	µg/L		100
PFBS	4.141	299.0 -> 80.0	863	2.612	µg/L		92
PFHxA	4.983	313.0 -> 269.0	1142	2.712	µg/L		99
PFHxS	5.805	399.0 -> 80.0	1673	2.901	µg/L		85
PFHpA	5.810	363.0 -> 319.0	2074	2.651	µg/L	#	72
PFHpS	6.496	449.0 -> 80.0	1645	2.622	µg/L		100
PFOA	6.539	413.0 -> 369.0	4179	2.740	µg/L		84
PFOSA	6.637	498.0 -> 78.0	1734	2.635	µg/L		100
MeFOSAA	7.188	570.0 -> 419.0	2750	6.212	µg/L		100
PFOS	7.191	499.0 -> 80.0	2636	2.606	µg/L		86
PFNA	7.281	463.0 -> 419.0	1926	2.592	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	2409	5.742	µg/L		100
PFDA	8.504	513.0 -> 469.0	2075	2.631	µg/L		100
PFDS	9.786	599.0 -> 80.0	678	2.657	µg/L		100
PFUnDA	10.042	563.0 -> 519.0	1617	2.786	µg/L		100
PFDoDA	11.319	613.0 -> 569.0	1805	2.667	µg/L		100
PFTrDA	12.438	663.0 -> 619.0	1225	2.620	µg/L		100
PFTeDA	13.464	713.0 -> 669.0	746	2.574	µg/L		100

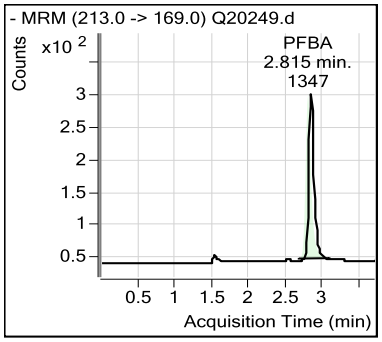
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

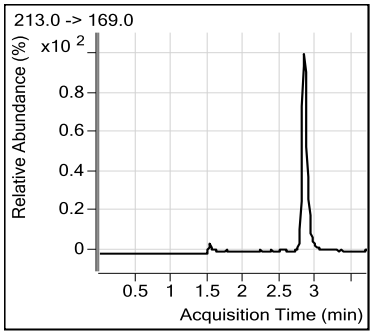
Perfluorinated Compounds by LC/MS/MS.

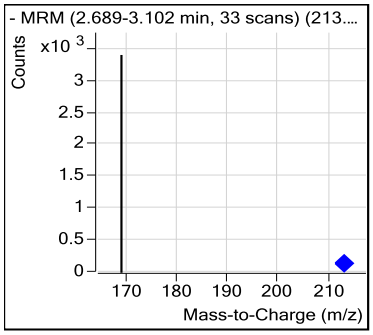
Data File	:	Q20249.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 14:20
Sample Name	:	IC607-2.5
Vial	:	Vial 2
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



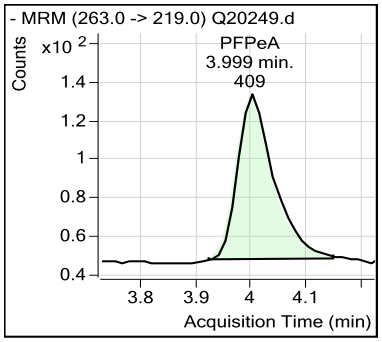
PFBA

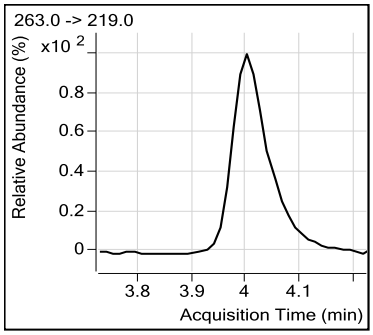


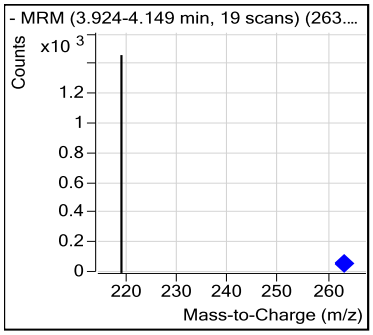




PFPeA

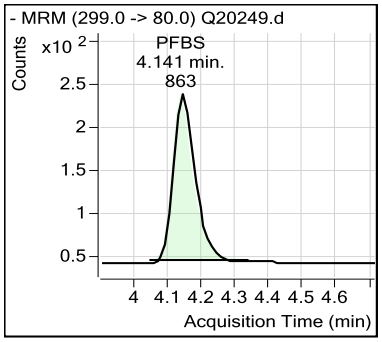


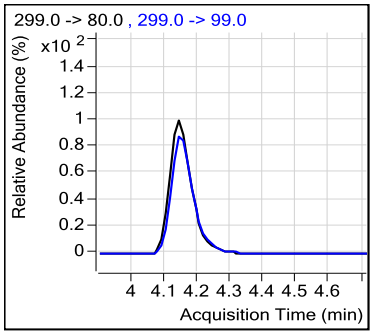


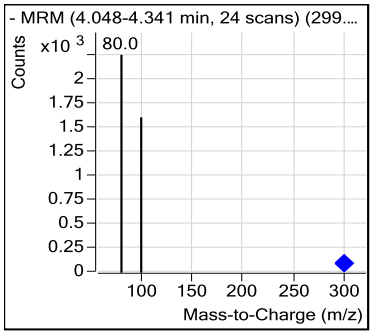


Perfluorinated Compounds by LC/MS/MS.

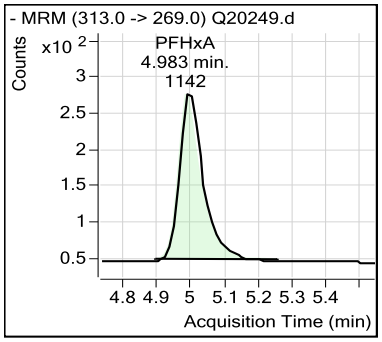
PFBS

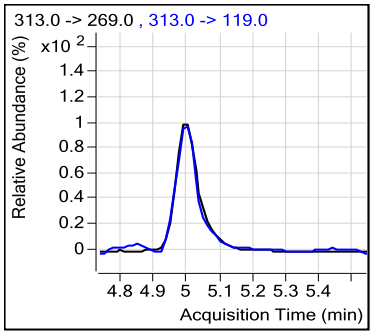


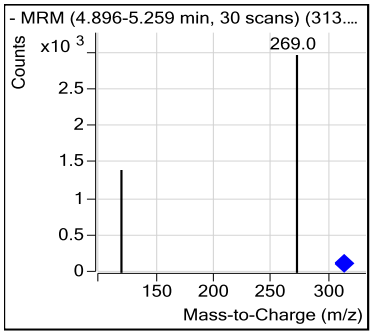




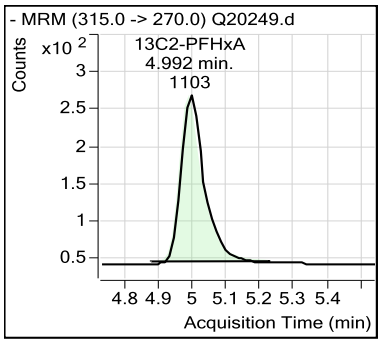
PFHxA

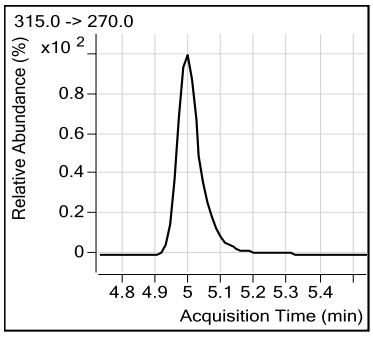


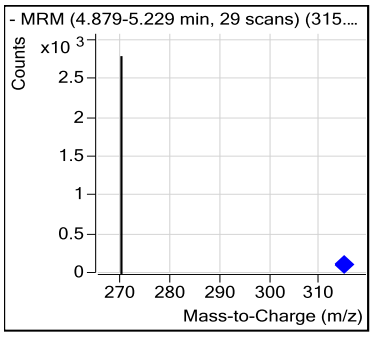




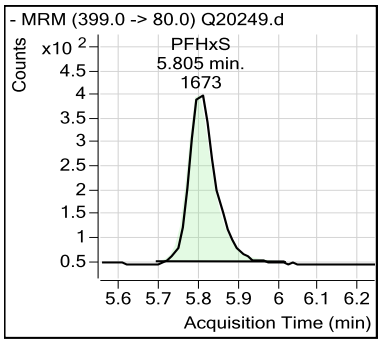
13C2-PFHxA

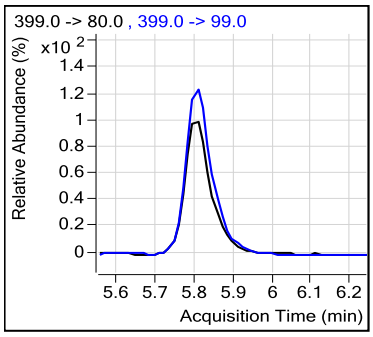


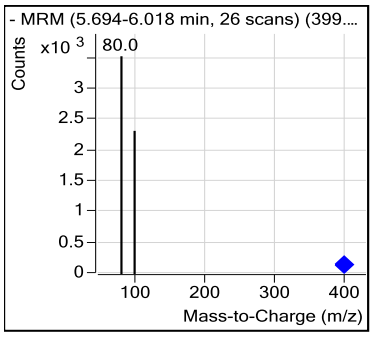




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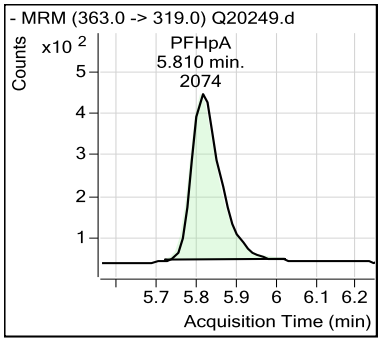


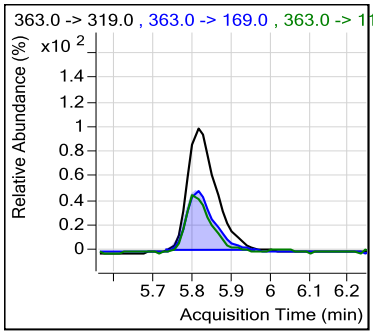


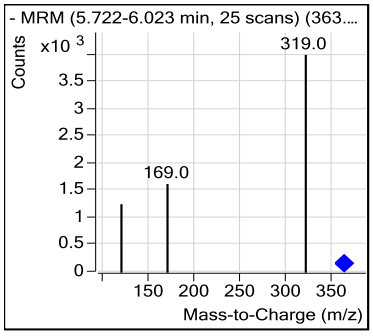


Perfluorinated Compounds by LC/MS/MS.

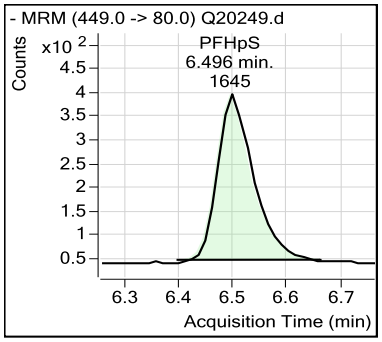
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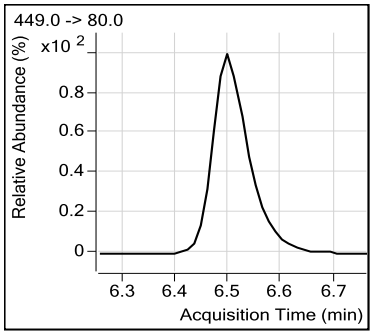


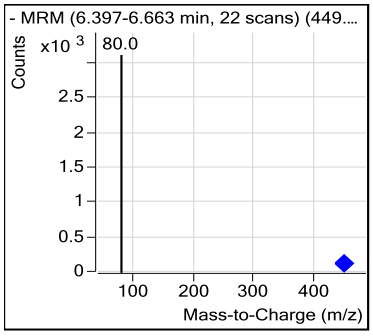




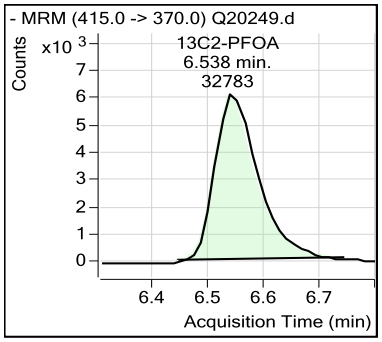
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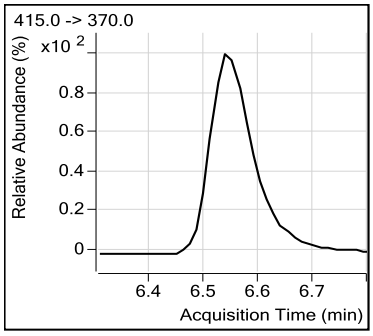


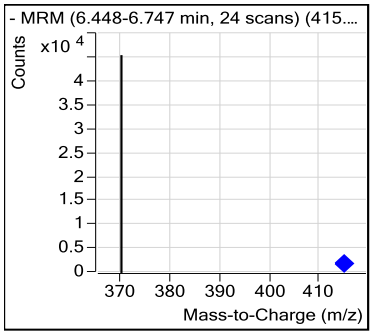




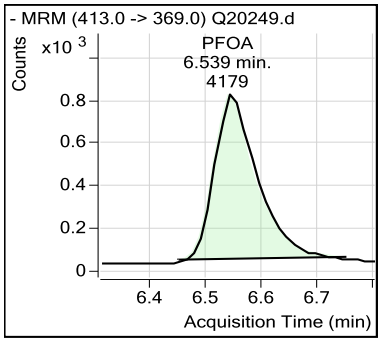
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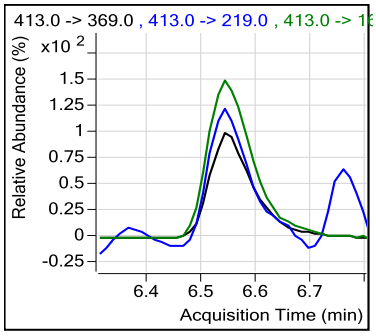


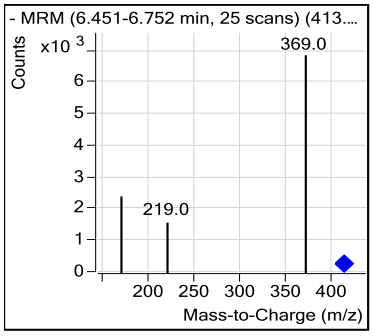




PFOA





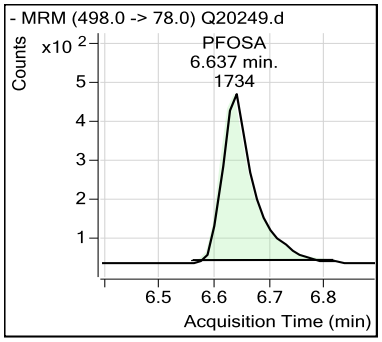


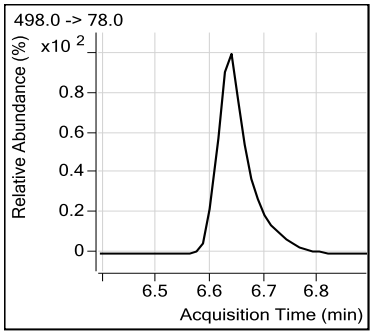
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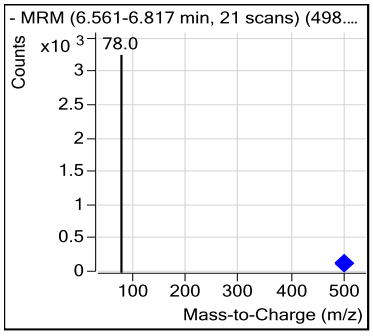
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Perfluorinated Compounds by LC/MS/MS.

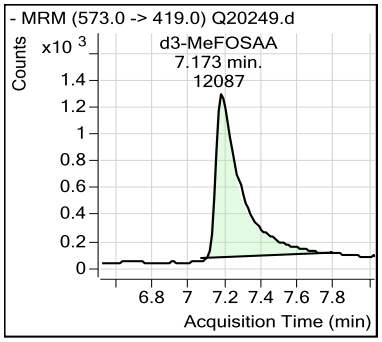
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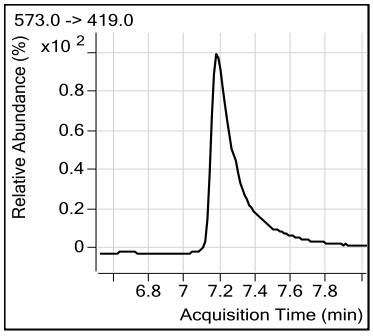


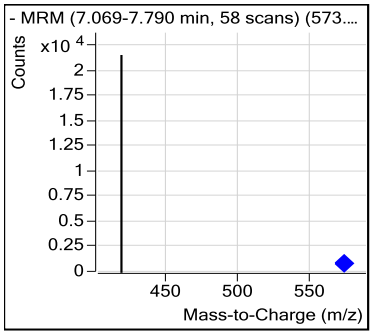




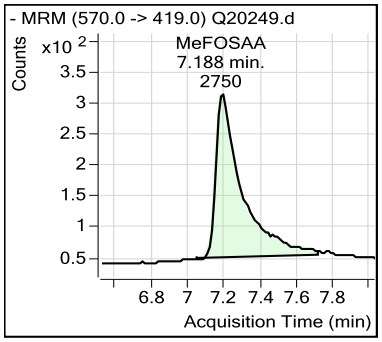
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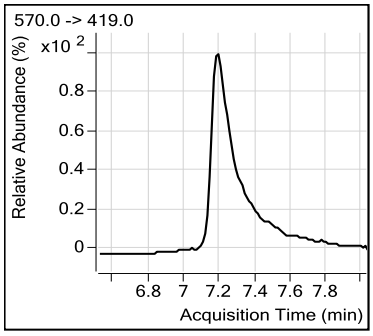


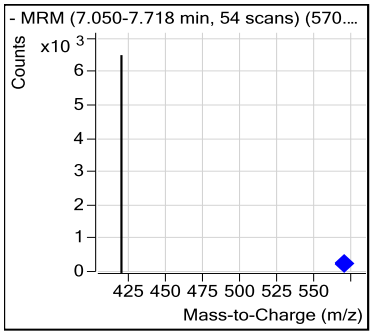




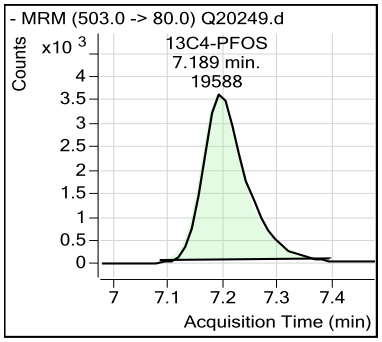
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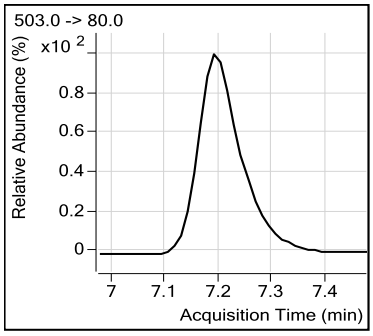


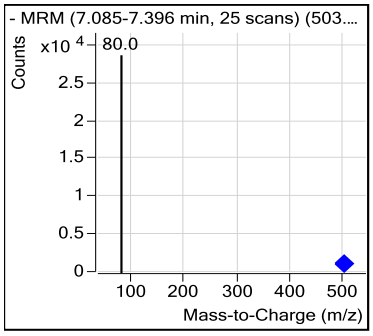




13C4-PFOS

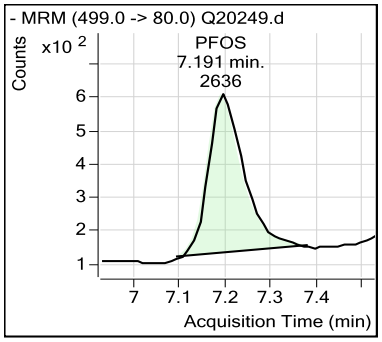


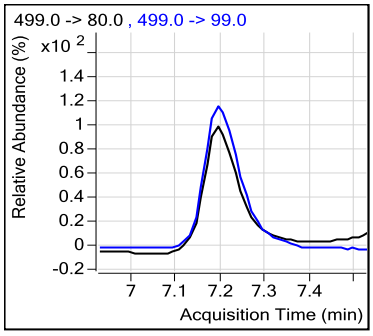


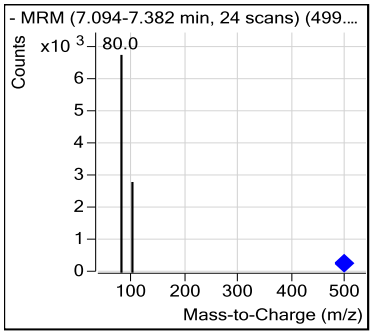


Perfluorinated Compounds by LC/MS/MS.

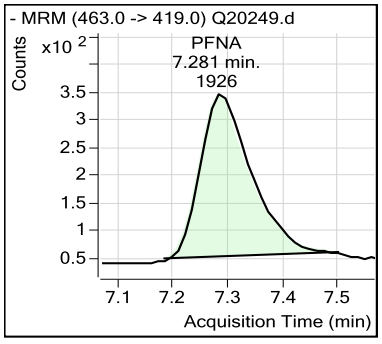
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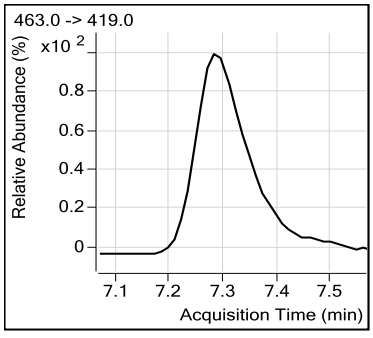


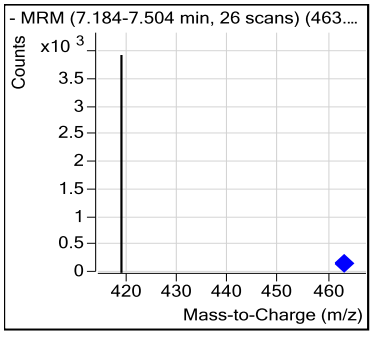




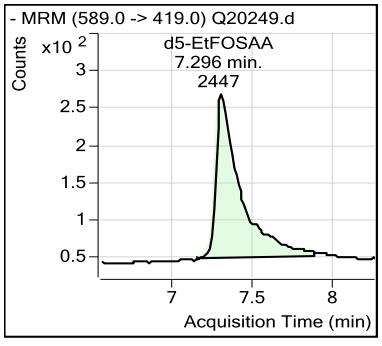
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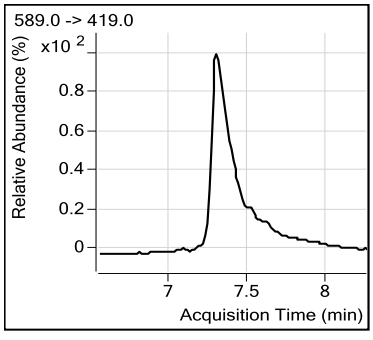


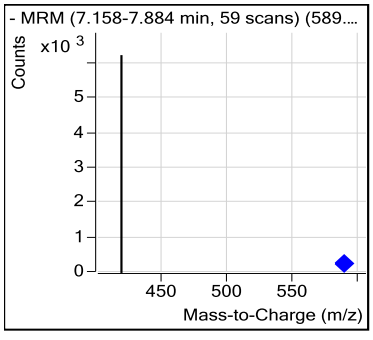




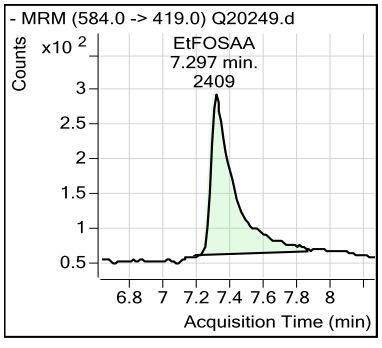
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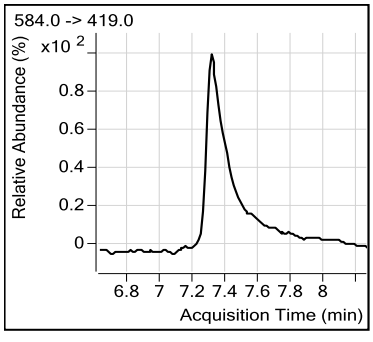


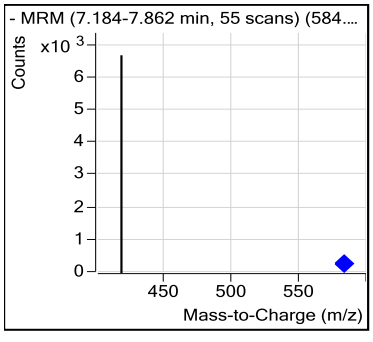




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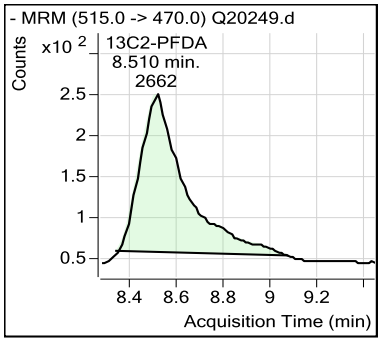


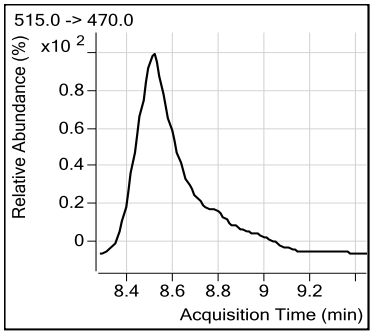


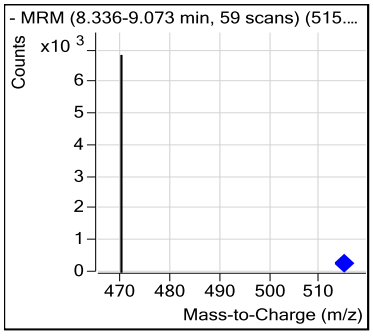


Perfluorinated Compounds by LC/MS/MS.

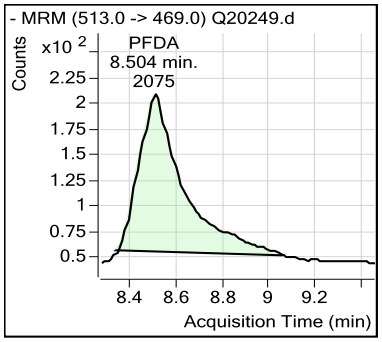
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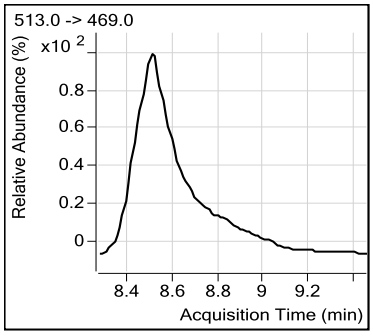


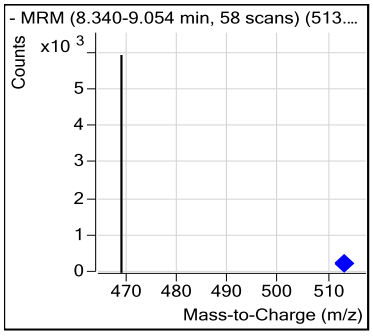




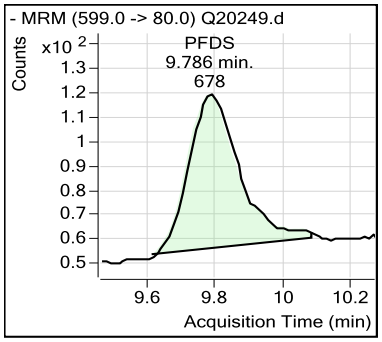
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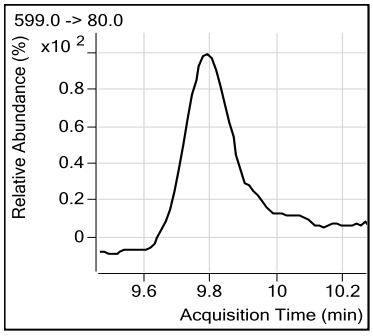


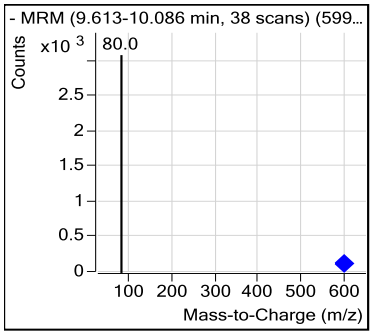




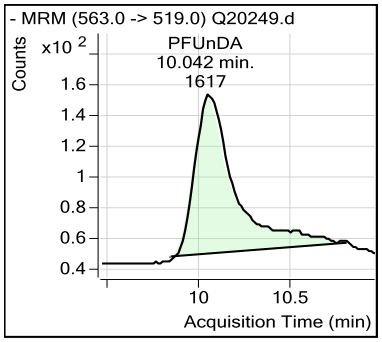
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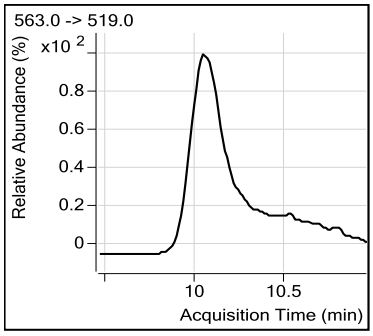


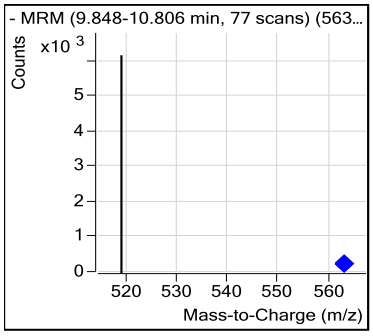




PFUnDA



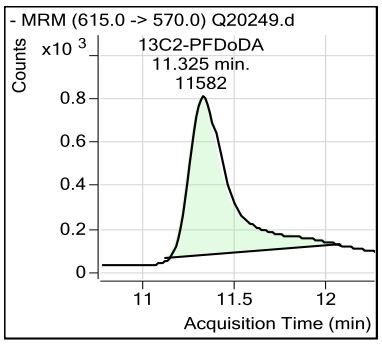


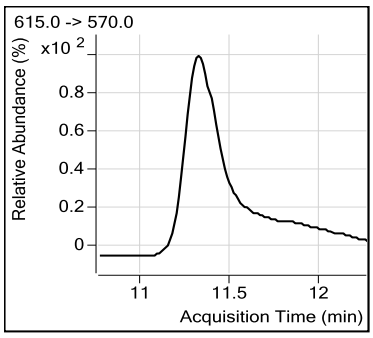


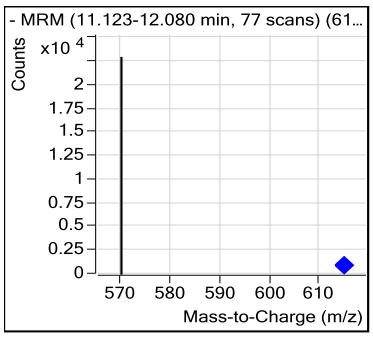
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

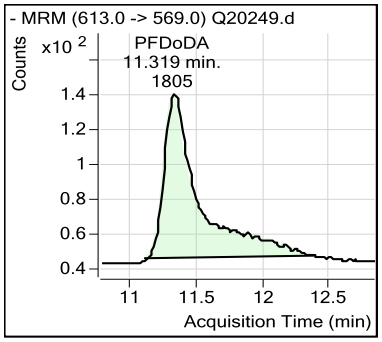
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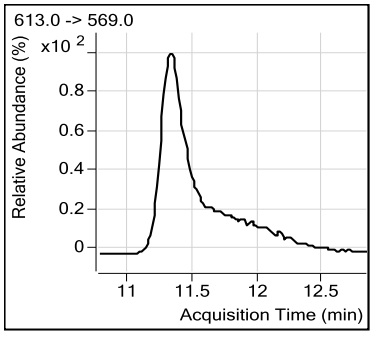


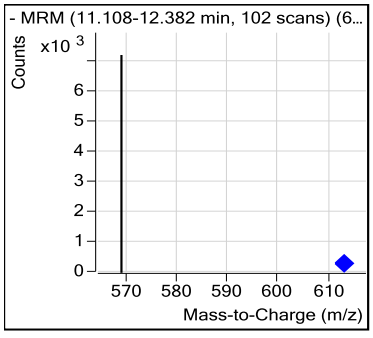




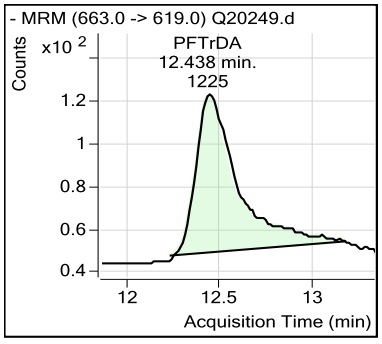
PFDoDA

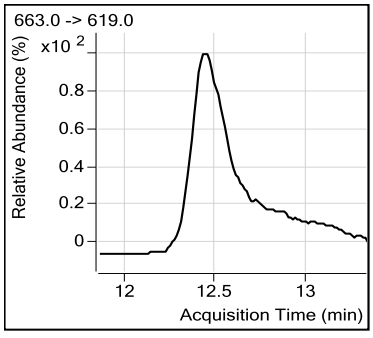


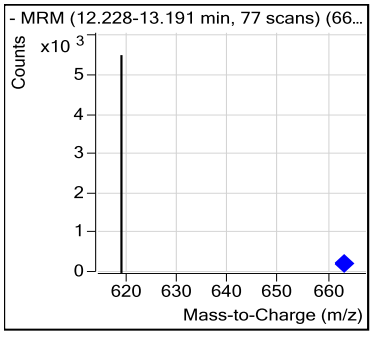




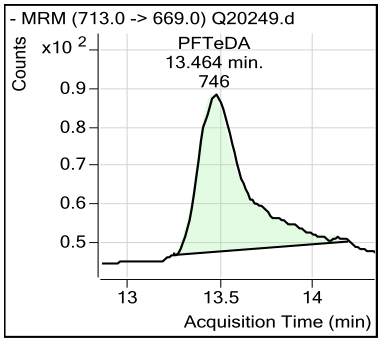
PFTrDA

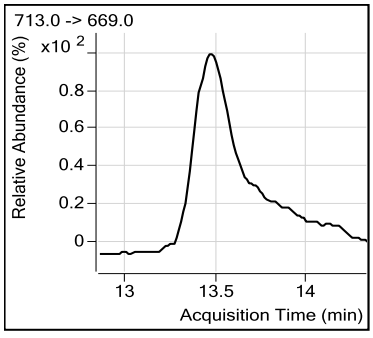


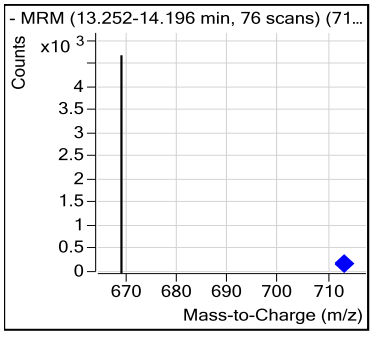




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20250.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 14:41
Sample Name	:	IC607-5.0
Vial	:	Vial 3
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

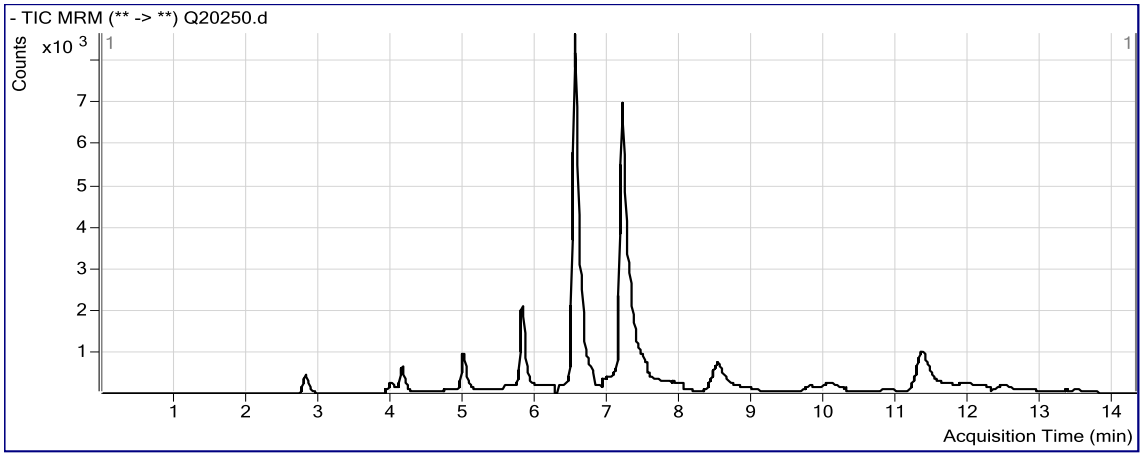
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	32603	20.000	µg/L		0.000
d3-MeFOSAA	7.173	573.0 -> 419.0	12005	40.000	µg/L		-0.013
13C4-PFOS	7.189	503.0 -> 80.0	19620	20.000	µg/L		0.000
13C2-PFDoDA	11.337	615.0 -> 570.0	11593	20.000	µg/L		0.025
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	2147	5.12	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 25.58%				
d5-EtFOSAA	7.296	589.0 -> 419.0	3161	9.83	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 24.56%				
13C2-PFDA	8.497	515.0 -> 470.0	4991	4.98	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 24.89%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	2506	5.079	µg/L		100
PFPeA	3.999	263.0 -> 219.0	760	5.027	µg/L		100
PFBS	4.141	299.0 -> 80.0	1662	5.020	µg/L		93
PFHxA	4.983	313.0 -> 269.0	2124	5.073	µg/L		100
PFHxS	5.793	399.0 -> 80.0	3086	5.341	µg/L		87
PFHpA	5.810	363.0 -> 319.0	3873	4.979	µg/L	#	72
PFHpS	6.496	449.0 -> 80.0	3169	5.042	µg/L		100
PFOA	6.539	413.0 -> 369.0	7893	5.202	µg/L		83
PFOSA	6.637	498.0 -> 78.0	3486	5.334	µg/L		100
MeFOSAA	7.188	570.0 -> 419.0	3560	9.741	µg/L		100
PFOS	7.191	499.0 -> 80.0	5031	4.965	µg/L		86
PFNA	7.281	463.0 -> 419.0	3716	5.030	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	3310	10.161	µg/L		100
PFDA	8.504	513.0 -> 469.0	3980	5.073	µg/L		100
PFDS	9.786	599.0 -> 80.0	1314	5.143	µg/L		100
PFUnDA	10.042	563.0 -> 519.0	2953	5.083	µg/L		100
PFDoDA	11.331	613.0 -> 569.0	3453	5.097	µg/L		100
PFTrDA	12.451	663.0 -> 619.0	2394	5.115	µg/L		100
PFTeDA	13.464	713.0 -> 669.0	1457	5.023	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

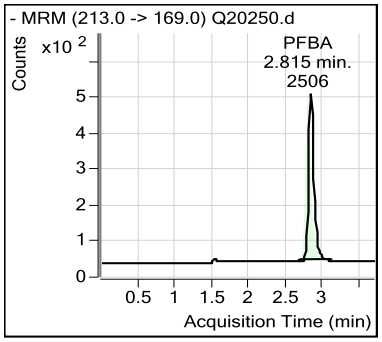
SGS ACCUTEST FA32826

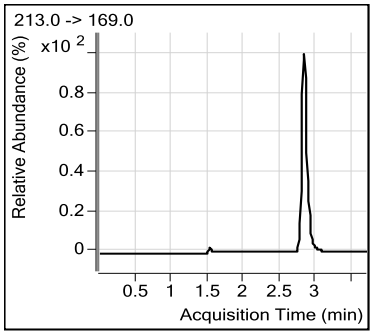
Perfluorinated Compounds by LC/MS/MS.

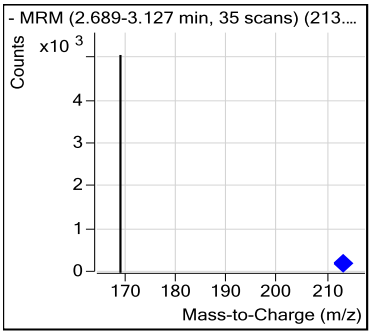
Data File	:	Q20250.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 14:41
Sample Name	:	IC607-5.0
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Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
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Last Calib Update	:	2016-04-13 09:33



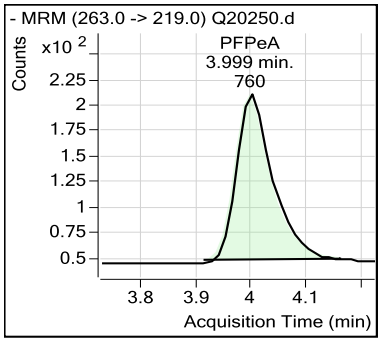
PFBA

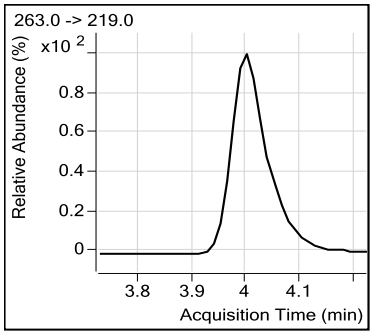


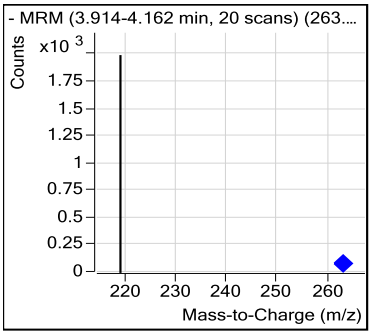




PFPeA



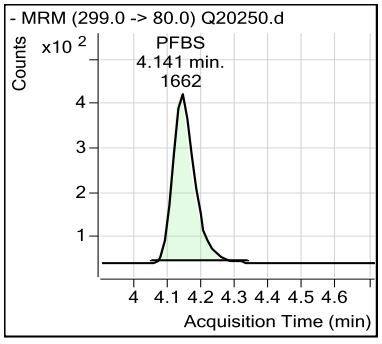


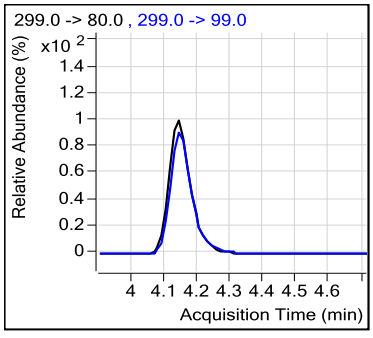


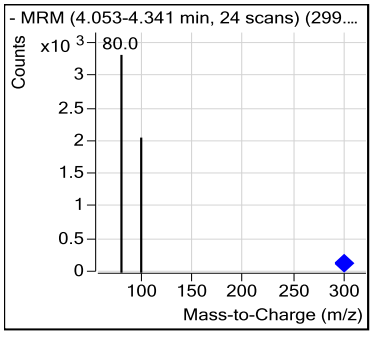
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

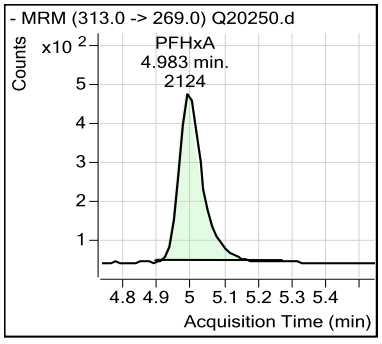
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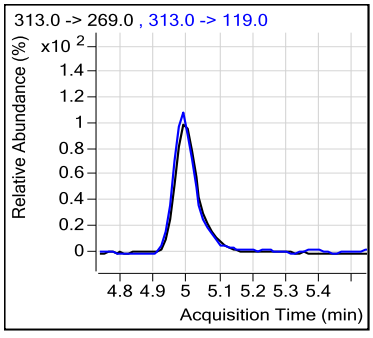


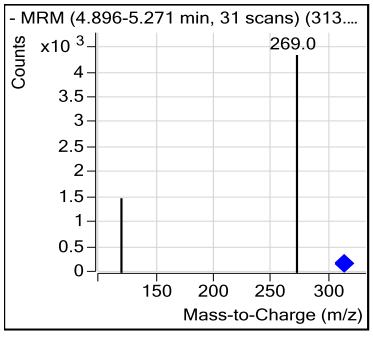




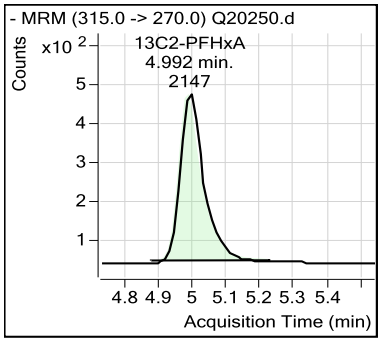
PFHxA

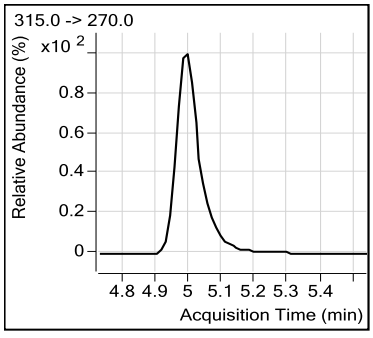


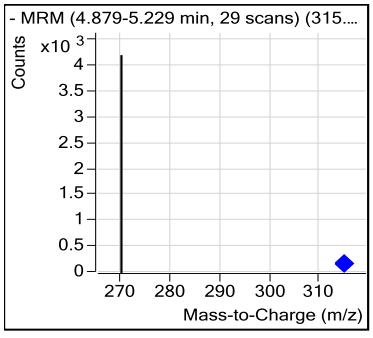




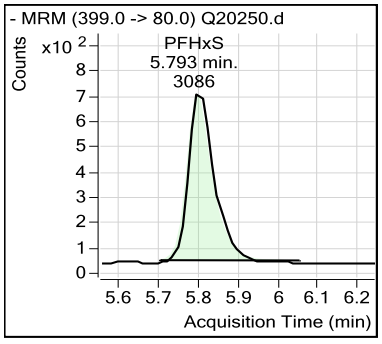
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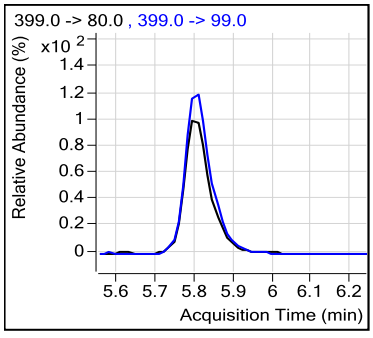


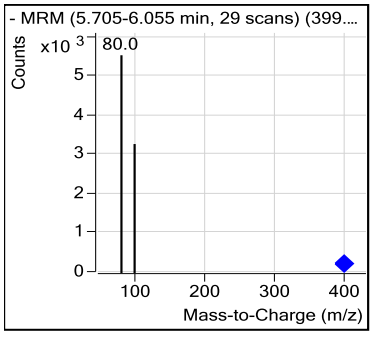




PFHxS



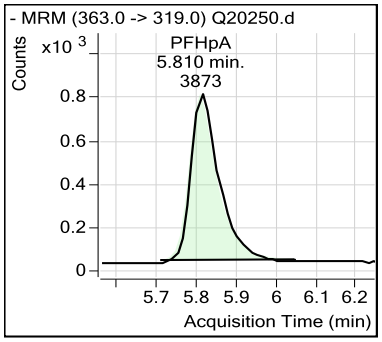


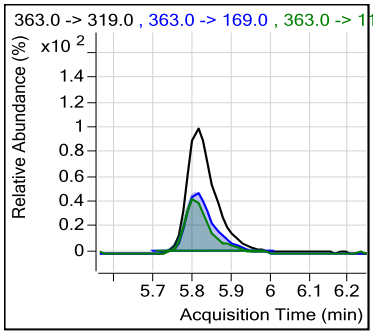


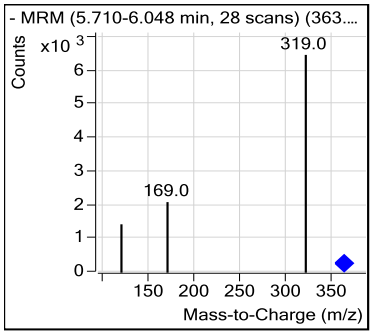
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

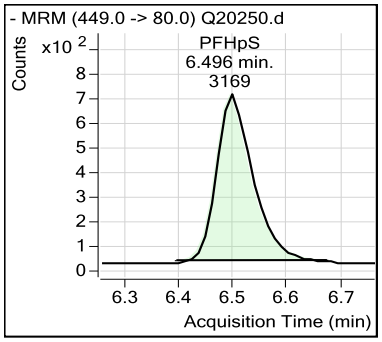
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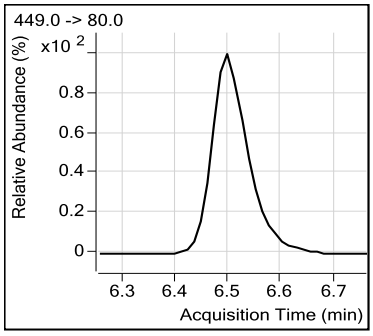


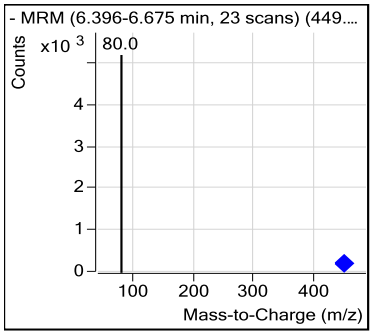




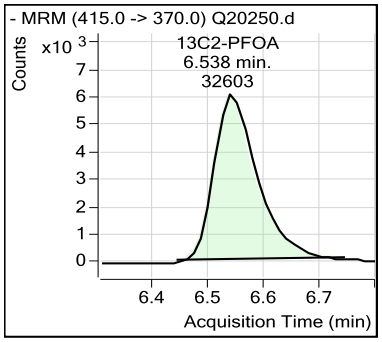
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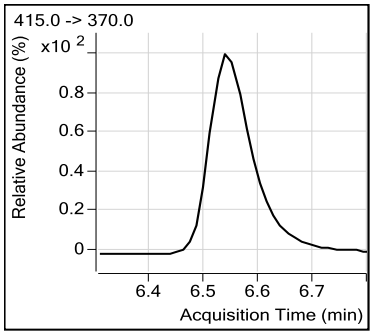


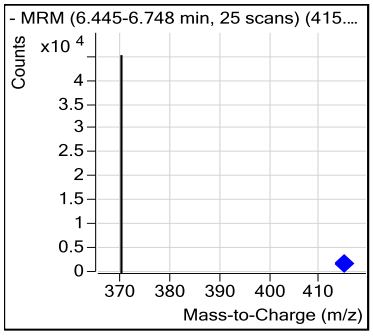




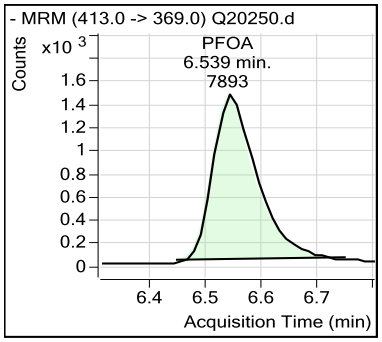
13C2-PFOA

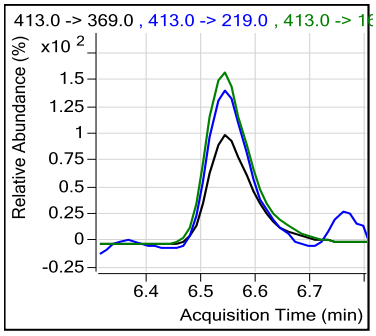


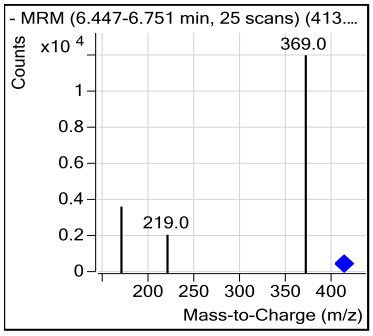




PFOA

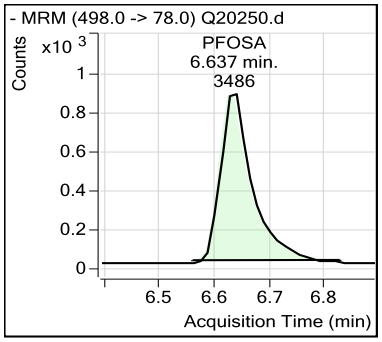


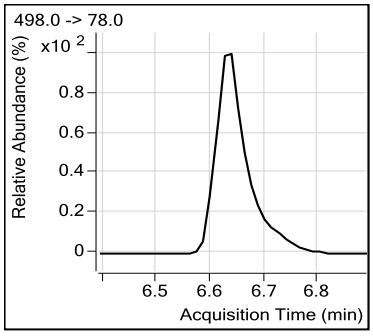


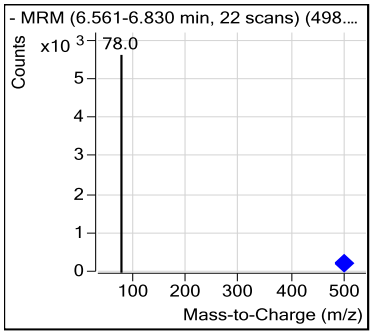


Perfluorinated Compounds by LC/MS/MS.

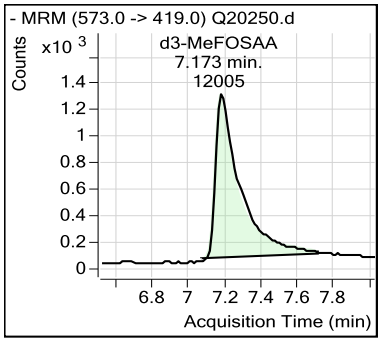
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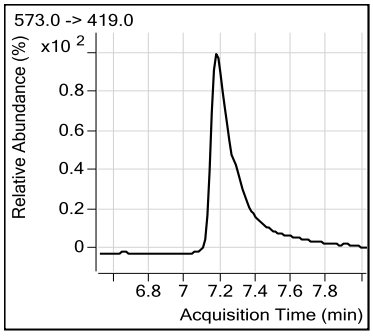


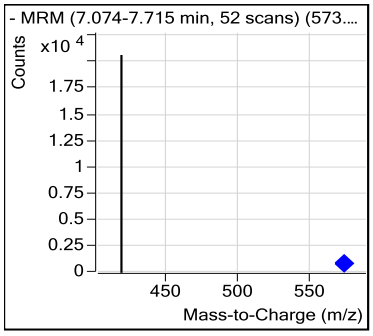




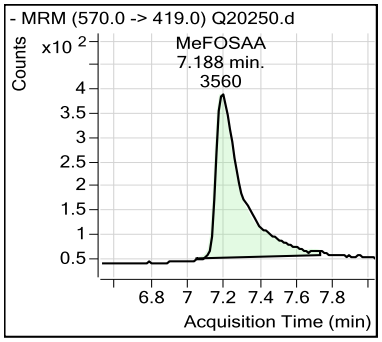
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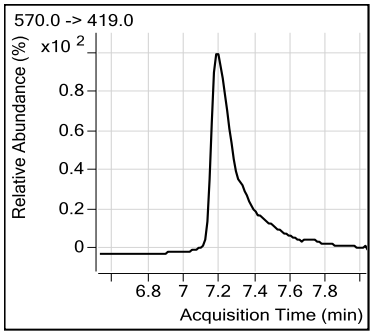


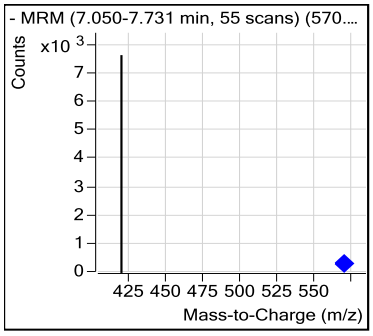




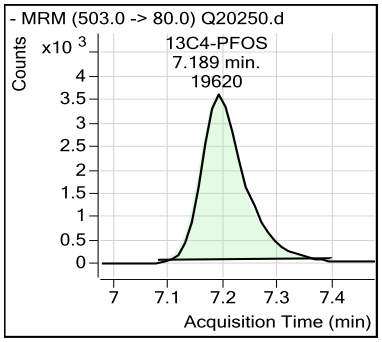
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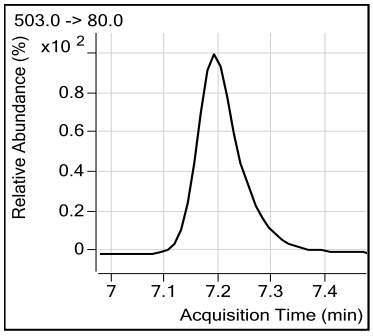


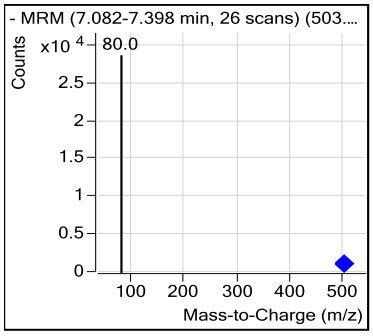




13C4-PFOS

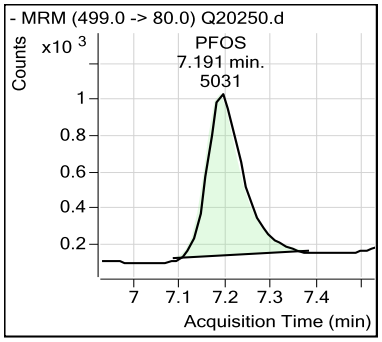


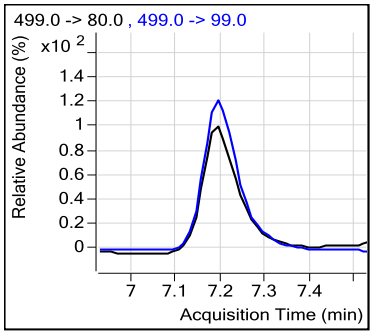


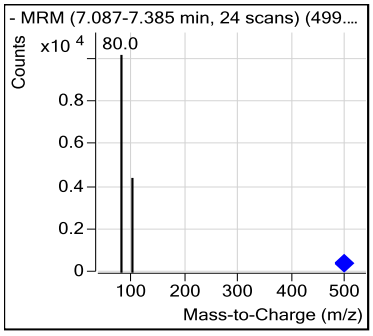


Perfluorinated Compounds by LC/MS/MS.

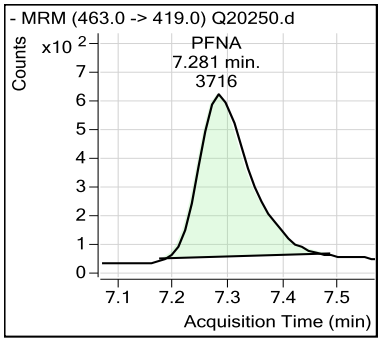
PFOS

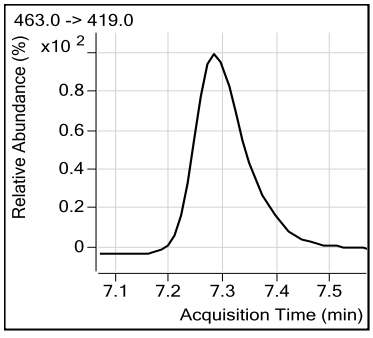


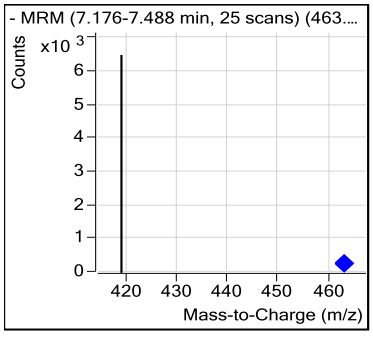




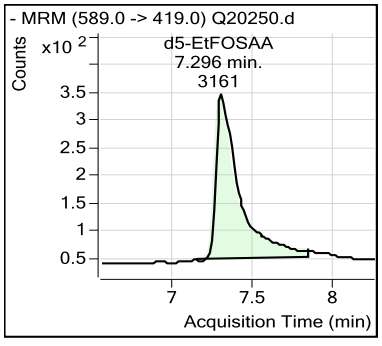
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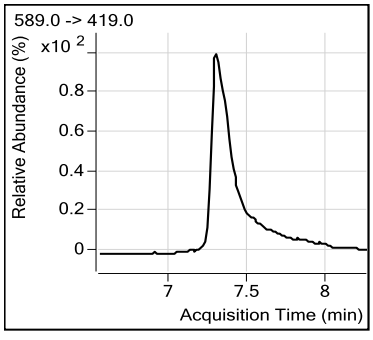


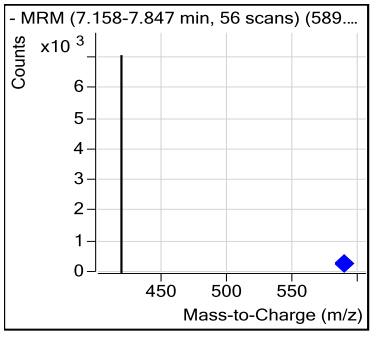




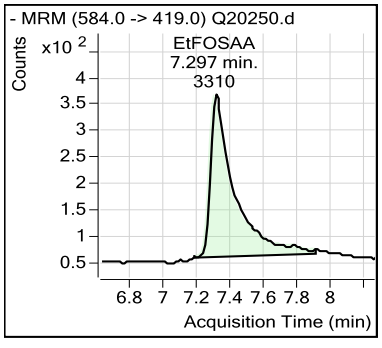
d5-EtFOSAA

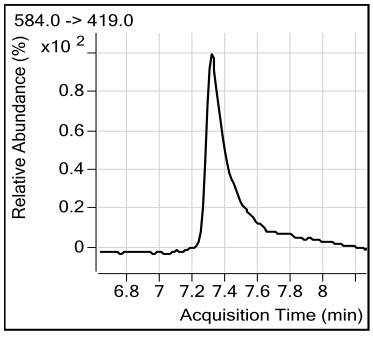


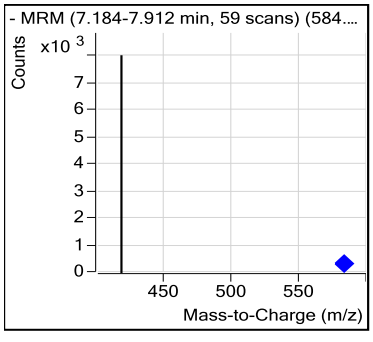




EtFOSAA

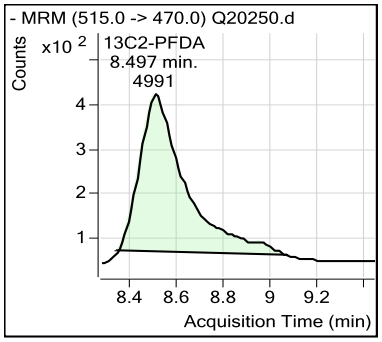


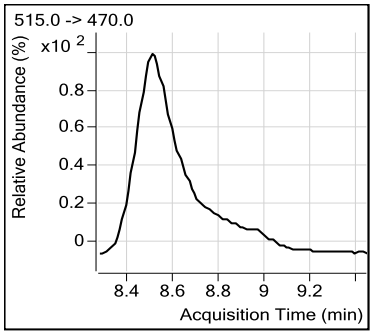


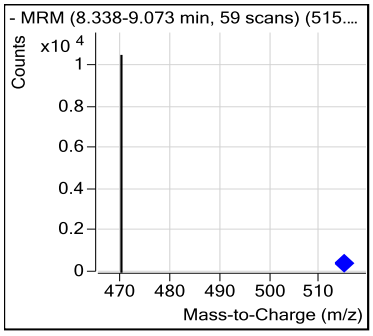


Perfluorinated Compounds by LC/MS/MS.

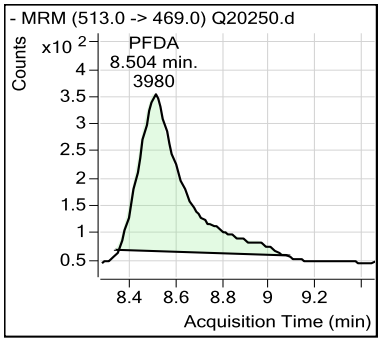
13C2-PFDA

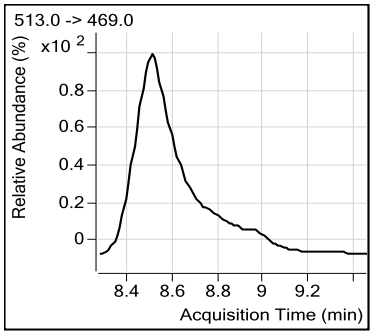


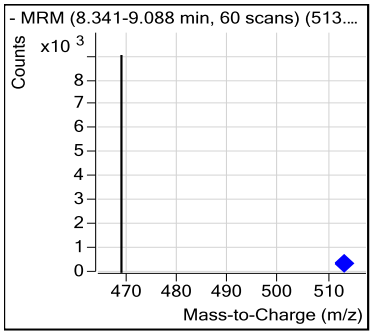




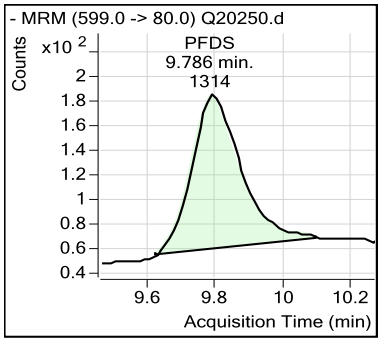
PFDA

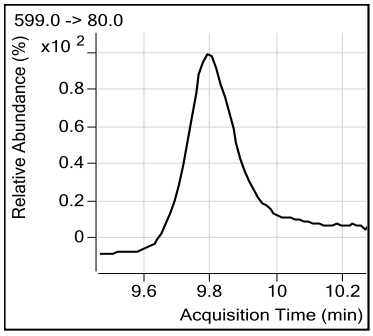


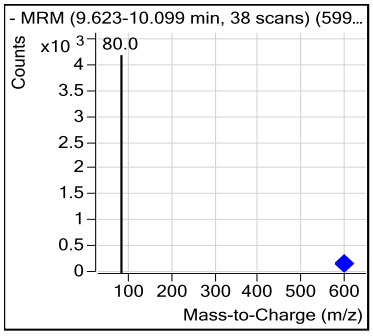




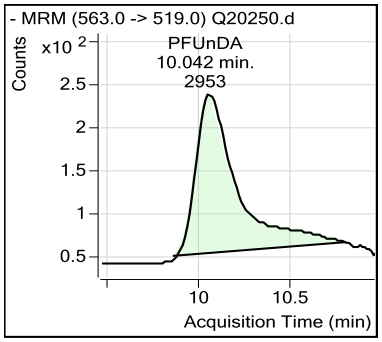
PFDS

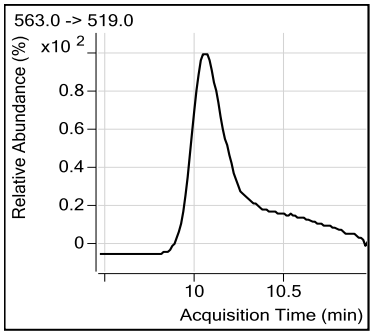


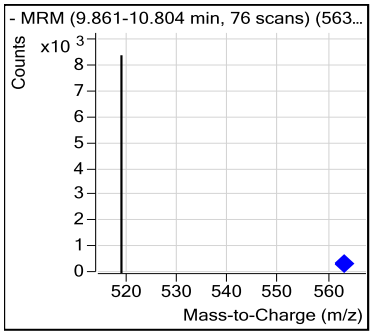




PFUnDA



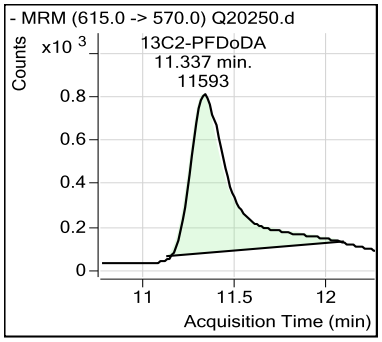


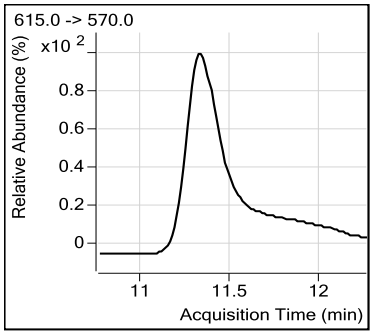


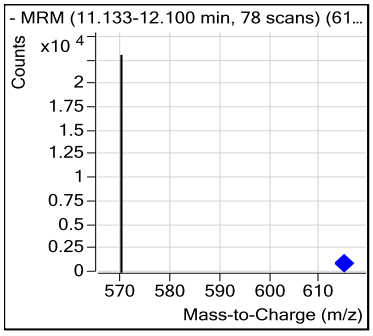
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

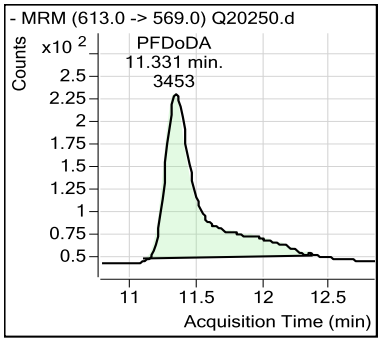
13C2-PFDoDA

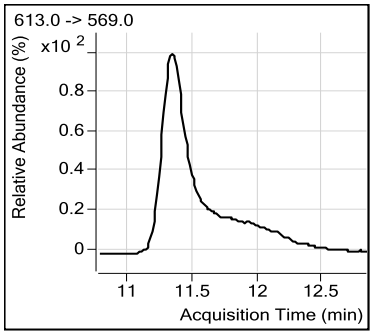


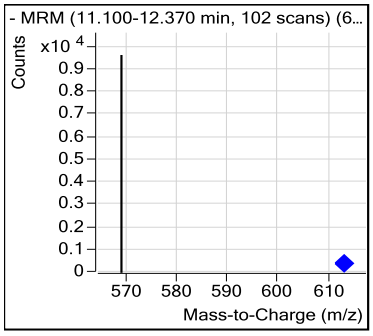




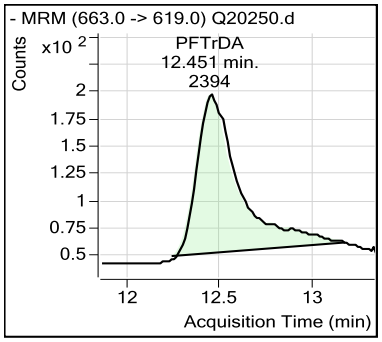
PFDoDA

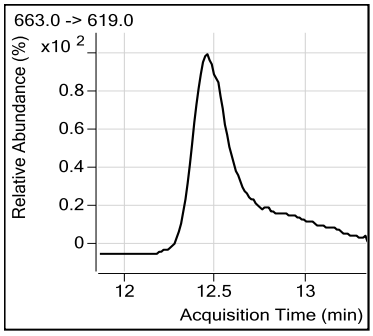


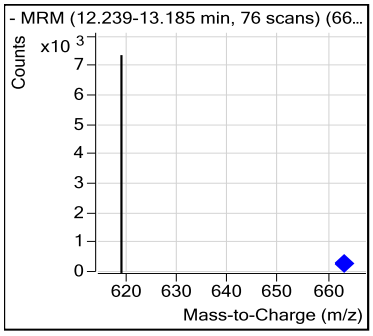




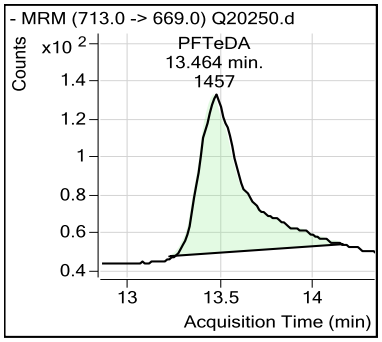
PFTrDA

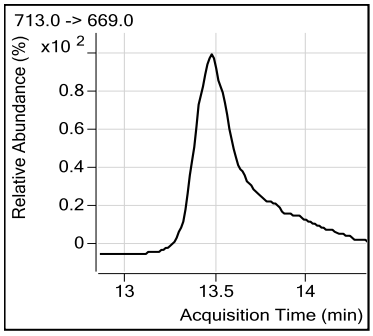


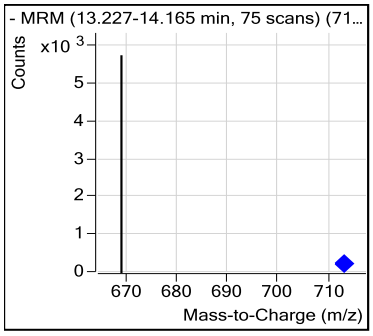




PFTeDA







SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

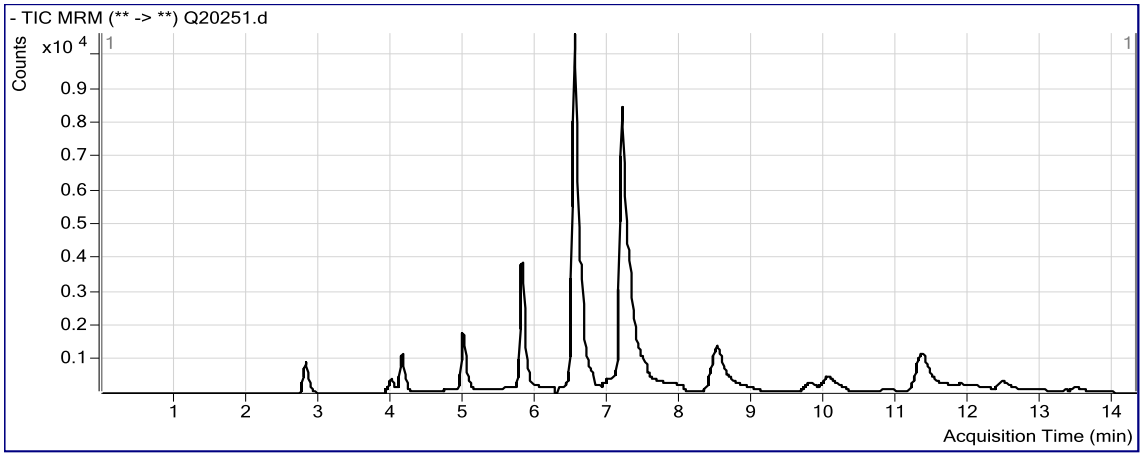
Data File	:	Q20251.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 15:02
Sample Name	:	IC607-10
Vial	:	Vial 4
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	32418	20.000	µg/L		0.000
d3-MeFOSAA	7.173	573.0 -> 419.0	12062	40.000	µg/L		-0.013
13C4-PFOS	7.189	503.0 -> 80.0	19708	20.000	µg/L		0.000
13C2-PFDoDA	11.325	615.0 -> 570.0	11831	20.000	µg/L		0.012
System Monitoring Compounds							
13C2-PFHxA	4.979	315.0 -> 270.0	4112	9.86	µg/L		-0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 49.28%				
d5-EtFOSAA	7.296	589.0 -> 419.0	5024	19.15	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 47.87%				
13C2-PFDA	8.497	515.0 -> 470.0	9695	9.73	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 48.64%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	4849	9.886	µg/L		100
PFPeA	3.999	263.0 -> 219.0	1507	10.028	µg/L		100
PFBS	4.141	299.0 -> 80.0	3249	9.773	µg/L		96
PFHxA	4.983	313.0 -> 269.0	4145	9.958	µg/L		99
PFHxS	5.793	399.0 -> 80.0	5874	10.122	µg/L		86
PFHpA	5.810	363.0 -> 319.0	7667	9.912	µg/L	#	72
PFHpS	6.496	449.0 -> 80.0	6122	9.698	µg/L		100
PFOA	6.539	413.0 -> 369.0	15137	10.034	µg/L		83
PFOSA	6.637	498.0 -> 78.0	6610	10.065	µg/L		100
MeFOSAA	7.175	570.0 -> 419.0	5927	19.415	µg/L		100
PFOS	7.191	499.0 -> 80.0	9936	9.763	µg/L		88
PFNA	7.281	463.0 -> 419.0	7241	9.858	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	5346	19.553	µg/L		100
PFDA	8.504	513.0 -> 469.0	7670	9.833	µg/L		100
PFDS	9.786	599.0 -> 80.0	2673	10.250	µg/L		100
PFUnDA	10.042	563.0 -> 519.0	5878	9.914	µg/L		100
PFDoDA	11.344	613.0 -> 569.0	6807	9.844	µg/L		100
PFTrDA	12.451	663.0 -> 619.0	4640	9.713	µg/L		100
PFTeDA	13.452	713.0 -> 669.0	2872	9.703	µg/L		100

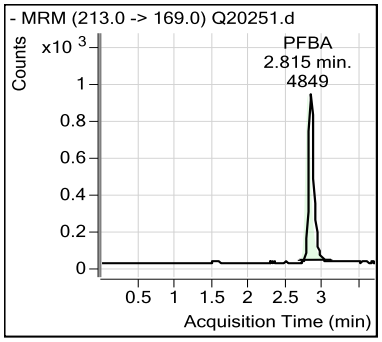
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

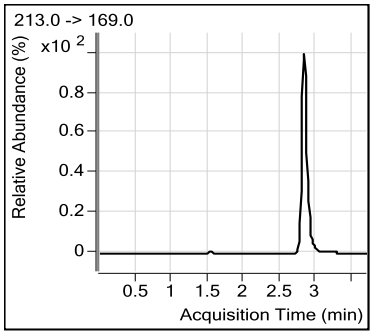
Perfluorinated Compounds by LC/MS/MS.

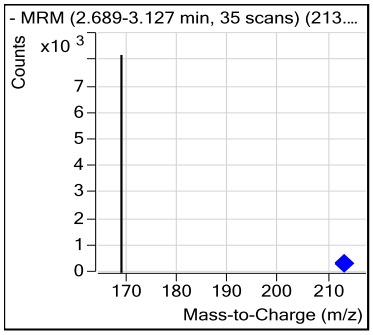
Data File	:	Q20251.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 15:02
Sample Name	:	IC607-10
Vial	:	Vial 4
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



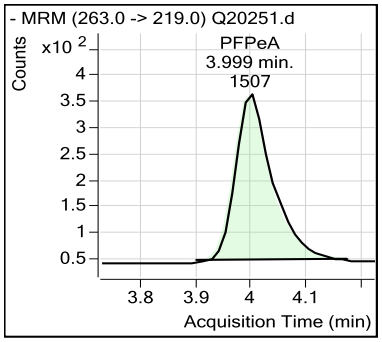
PFBA

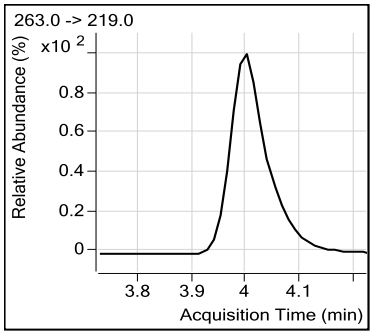


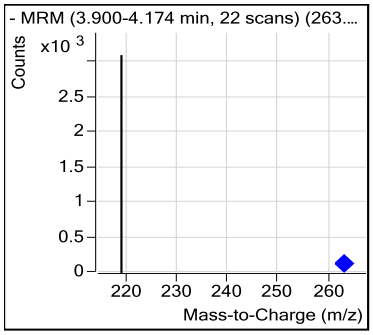




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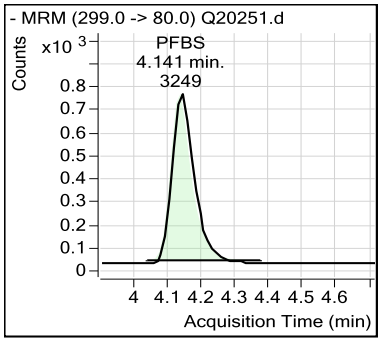


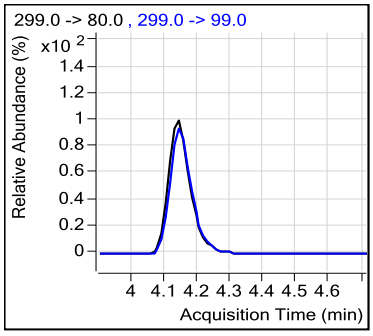


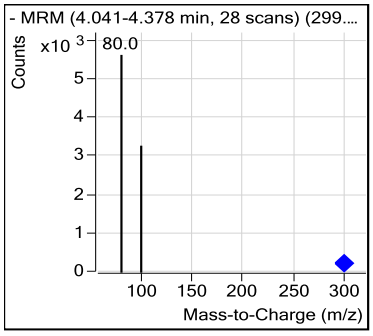


Perfluorinated Compounds by LC/MS/MS.

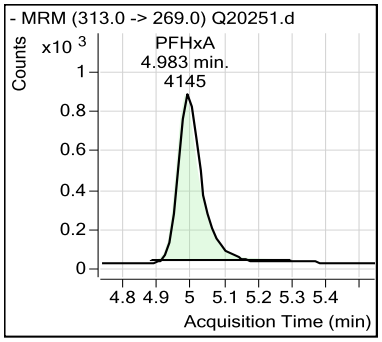
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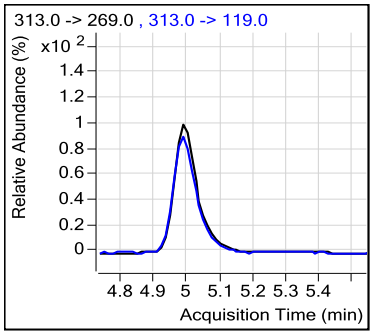


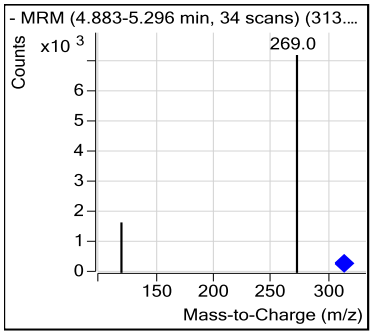




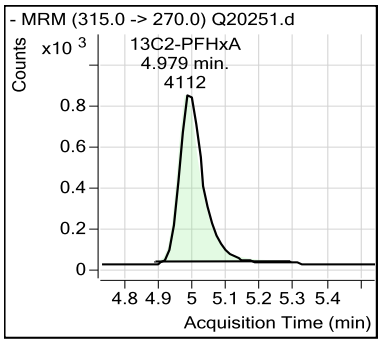
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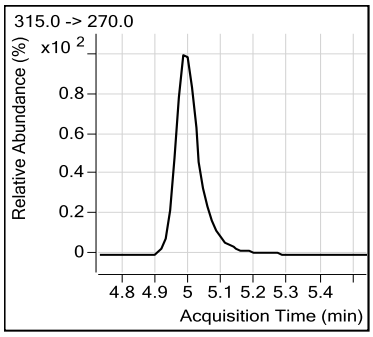


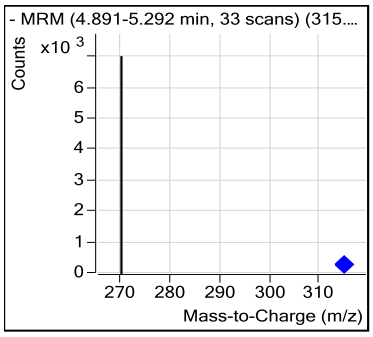




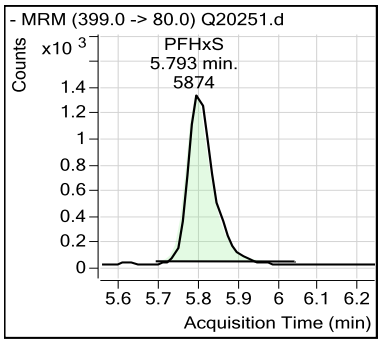
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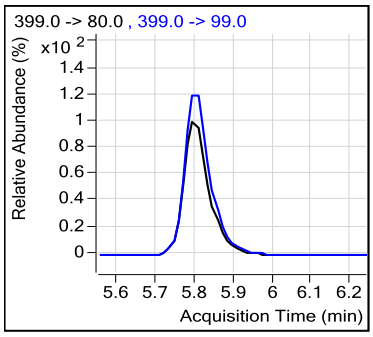


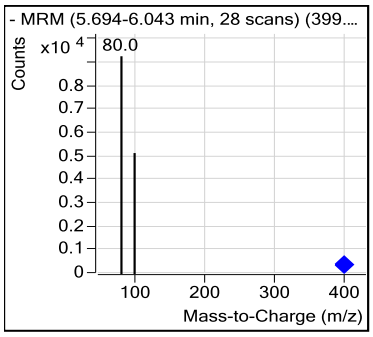




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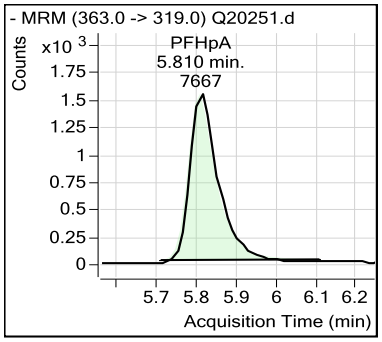


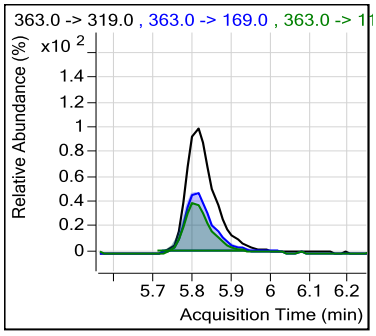


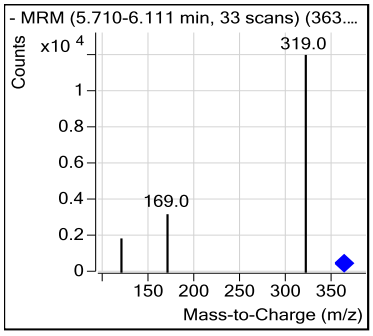
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

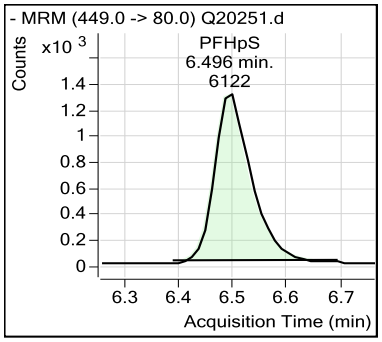
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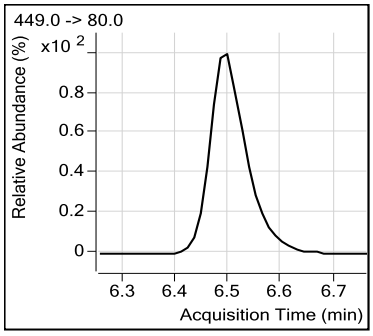


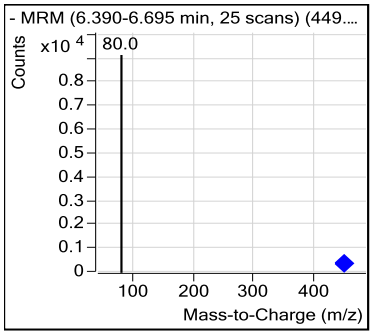




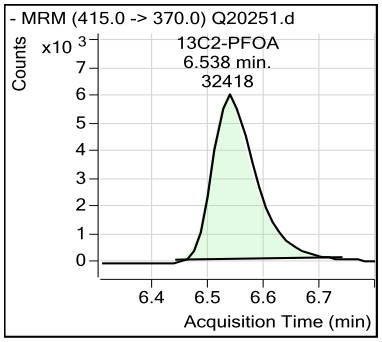
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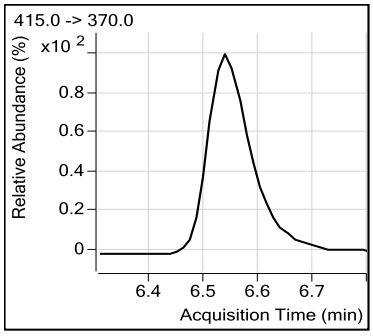


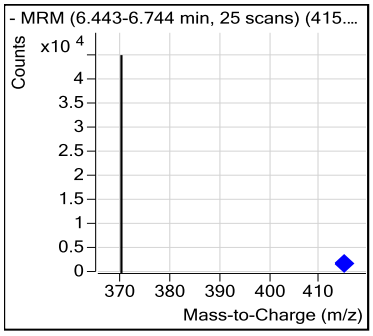




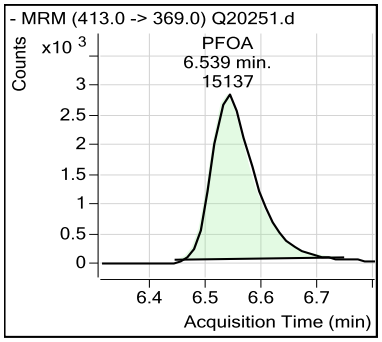
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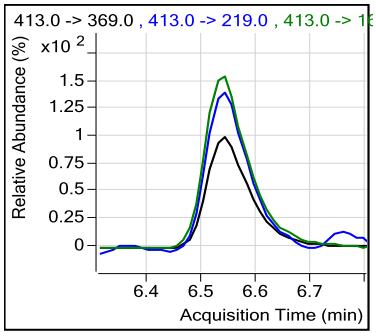


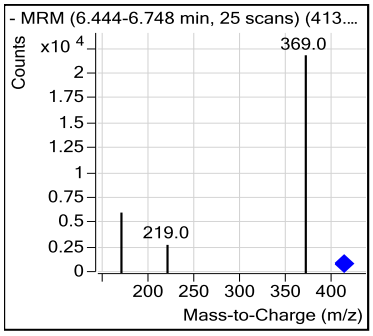




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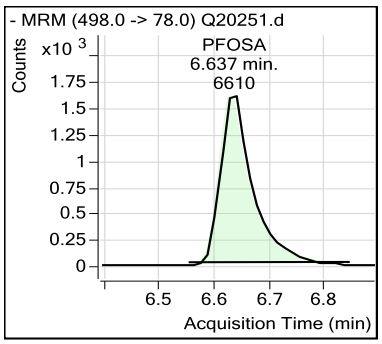


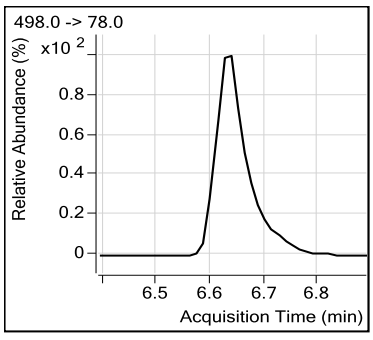


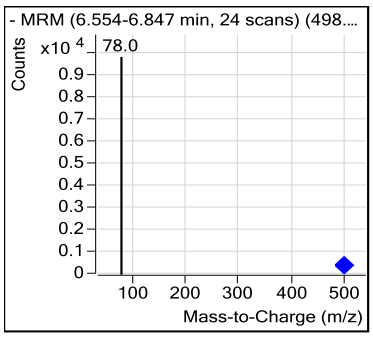


Perfluorinated Compounds by LC/MS/MS.

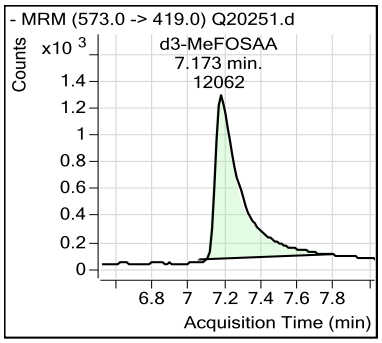
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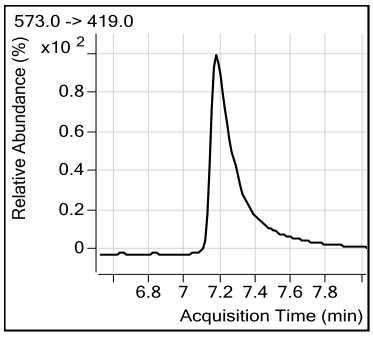


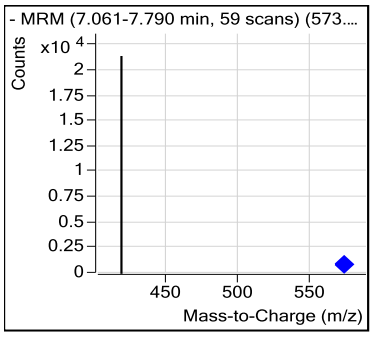




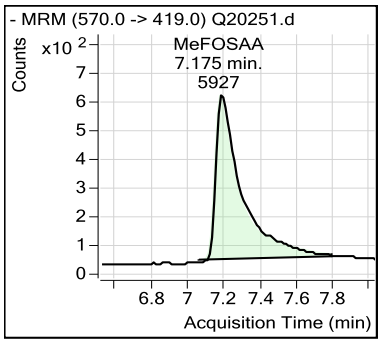
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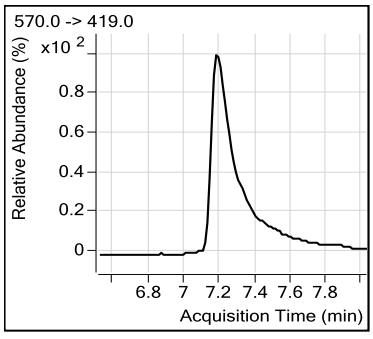


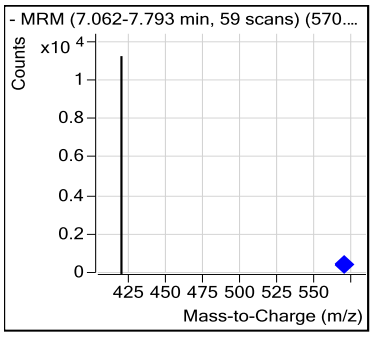




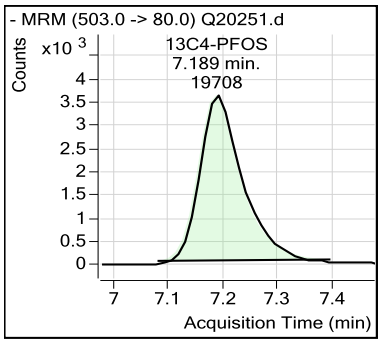
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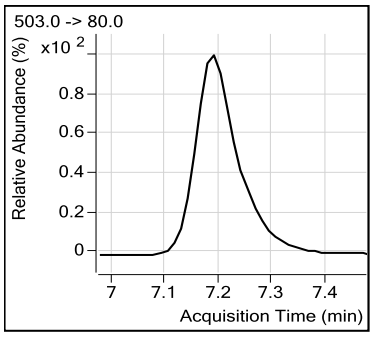


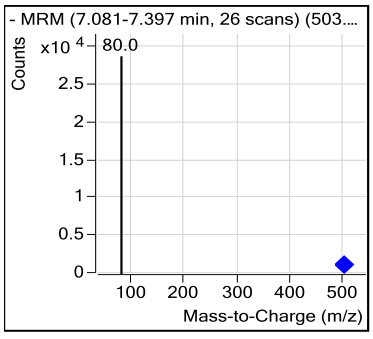




13C4-PFOS

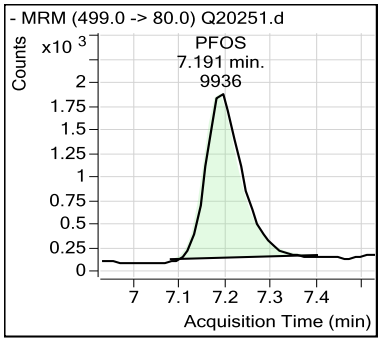


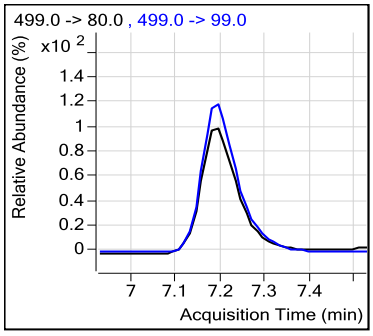


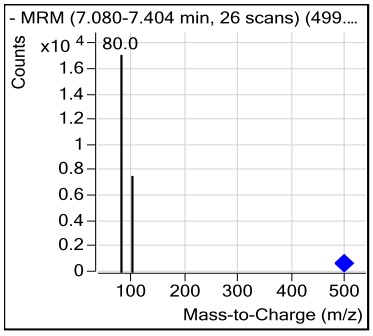


Perfluorinated Compounds by LC/MS/MS.

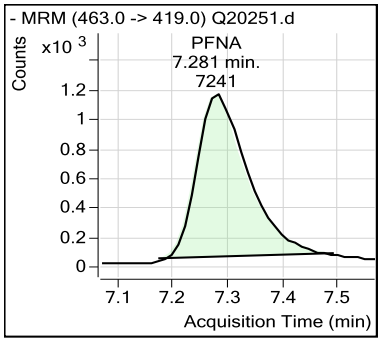
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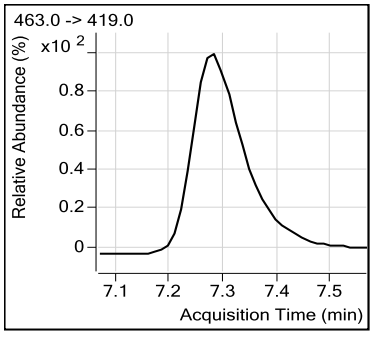


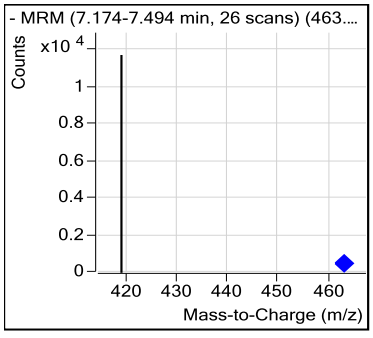




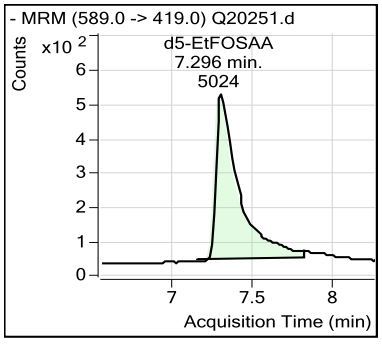
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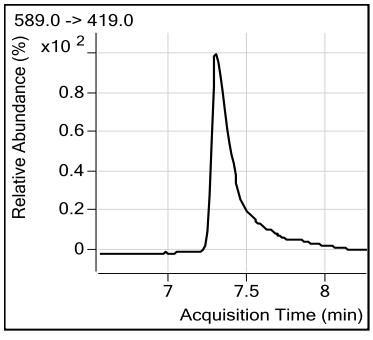


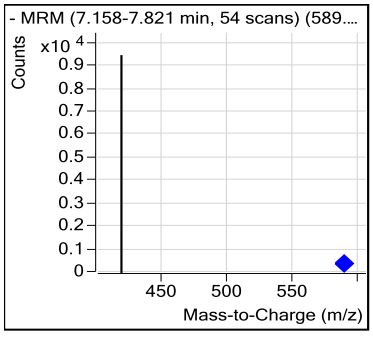




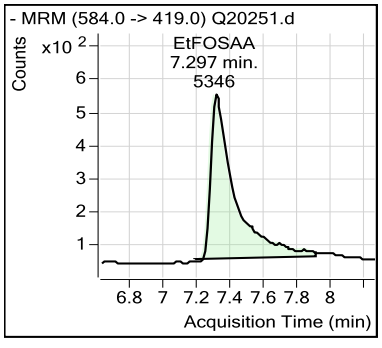
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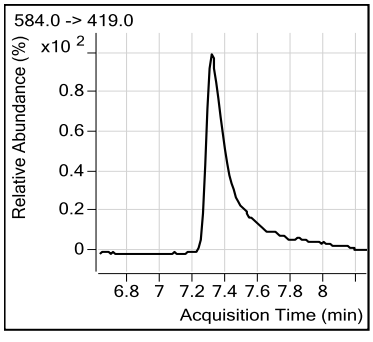


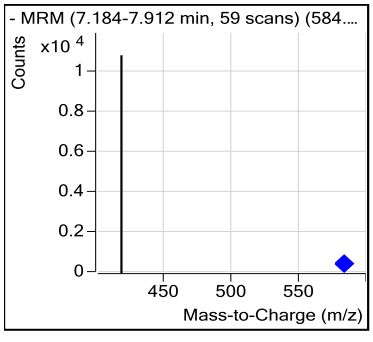




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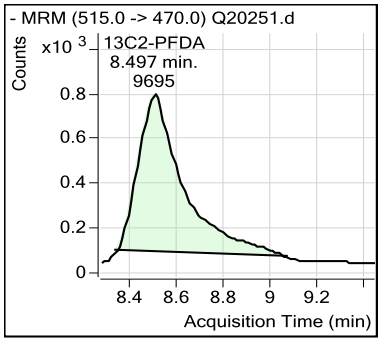


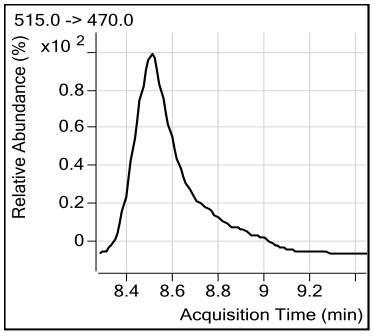


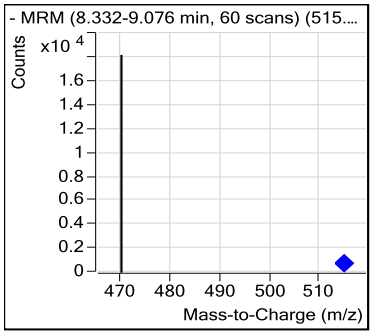


Perfluorinated Compounds by LC/MS/MS.

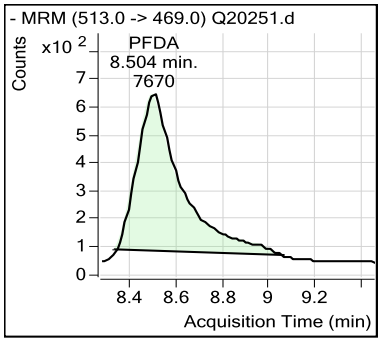
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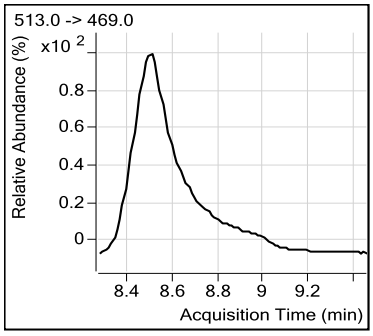


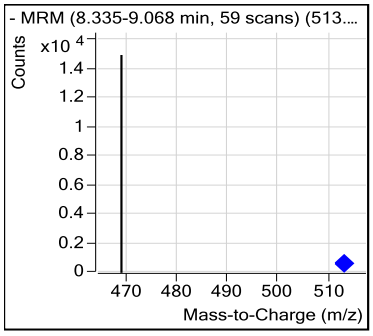




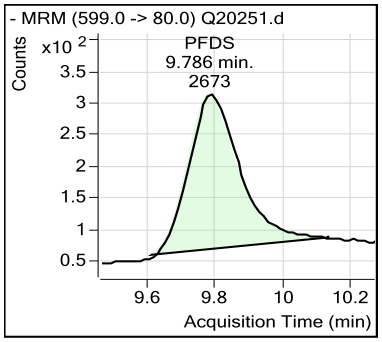
PFDA

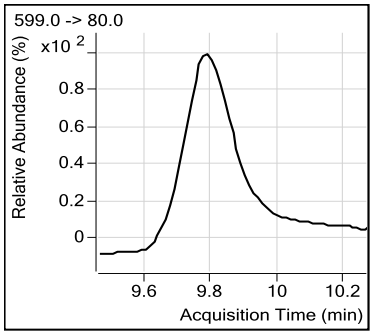


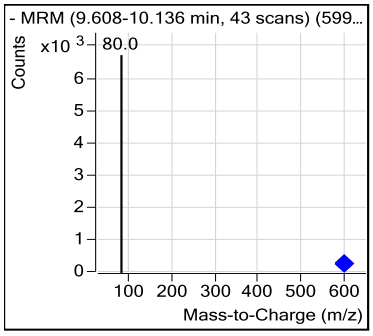




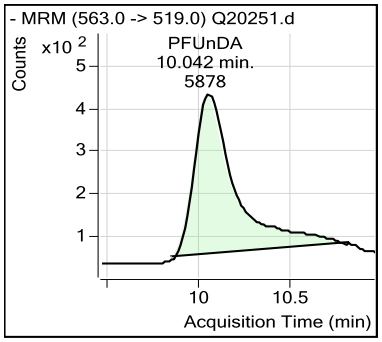
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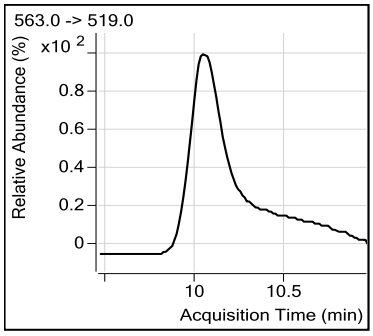


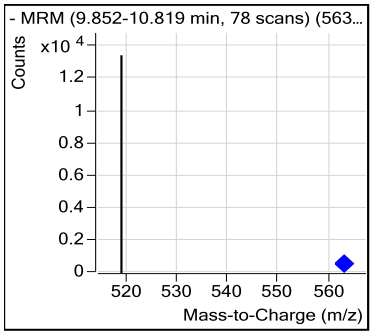




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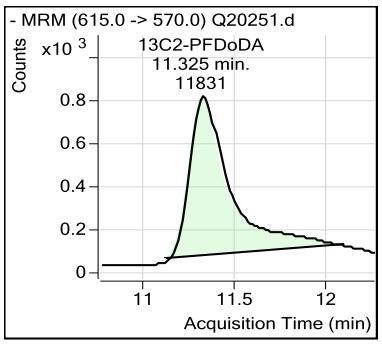


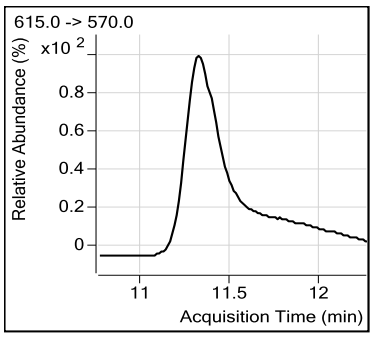


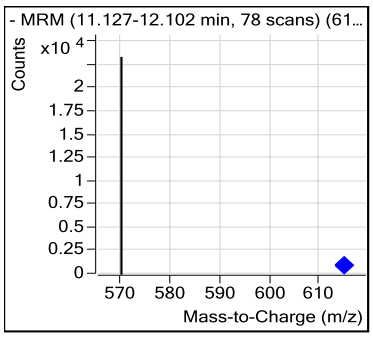


Perfluorinated Compounds by LC/MS/MS.

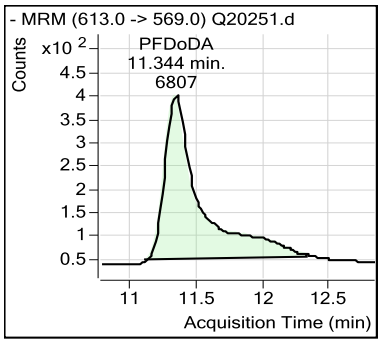
13C2-PFDoDA

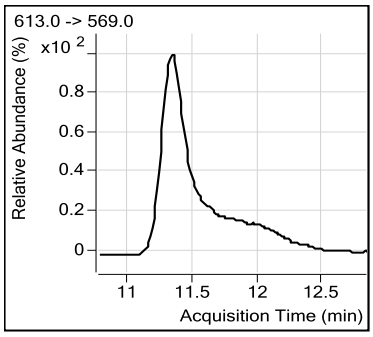


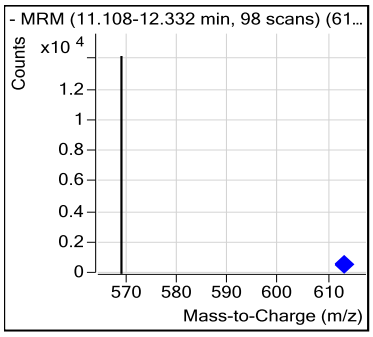




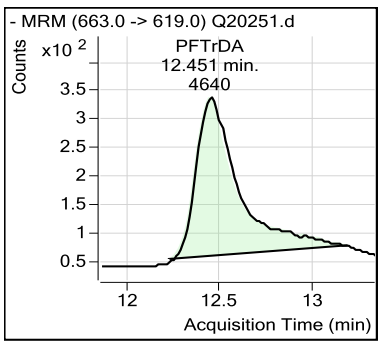
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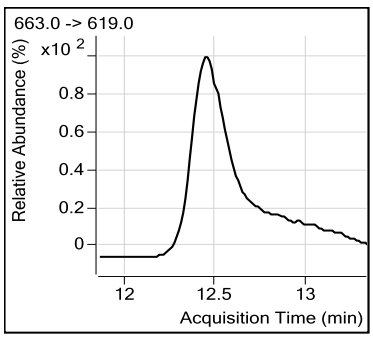


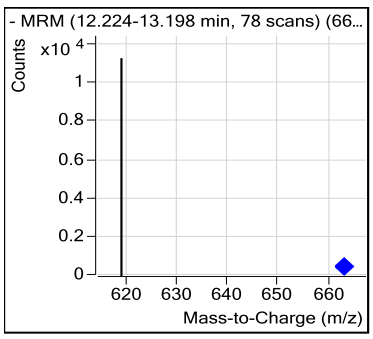




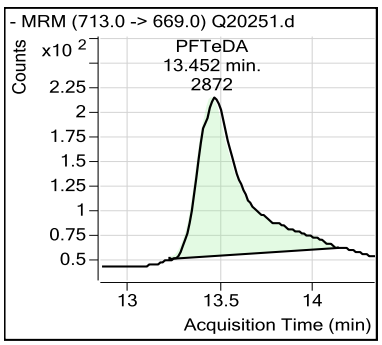
PFTrDA

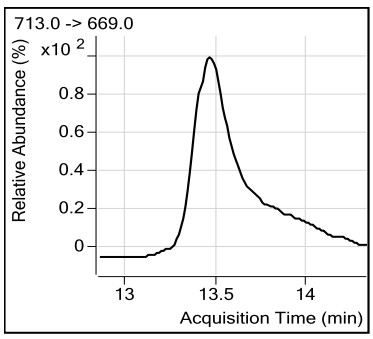


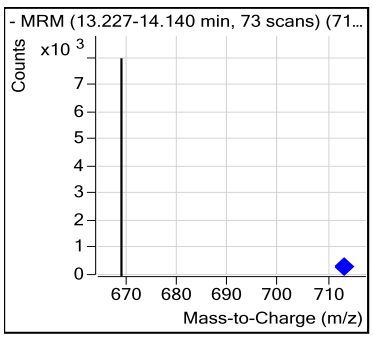




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20252.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 15:31
Sample Name	:	ICC607-20
Vial	:	Vial 5
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

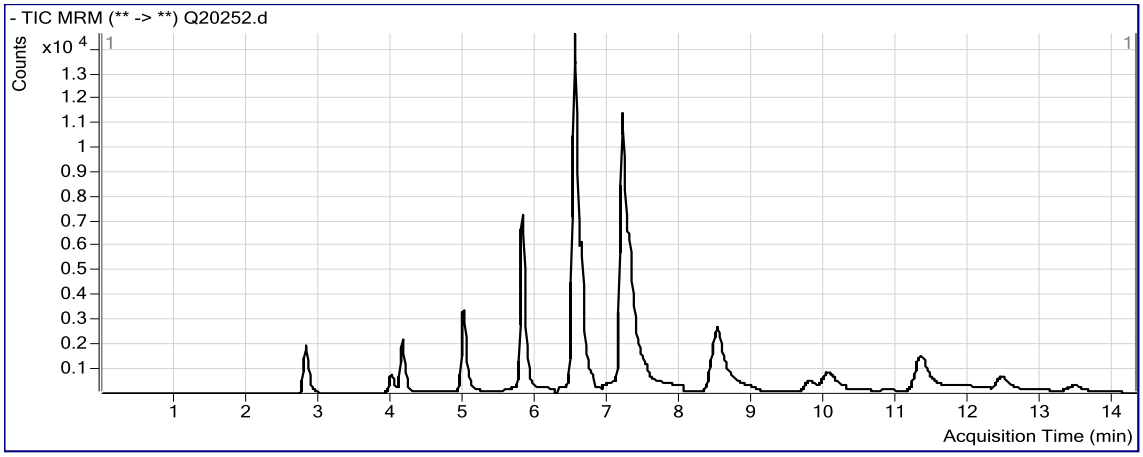
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	31774	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	12555	40.000	µg/L		0.000
13C4-PFOS	7.189	503.0 -> 80.0	19009	20.000	µg/L		0.000
13C2-PFDoDA	11.312	615.0 -> 570.0	11856	20.000	µg/L		0.000
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	8095	19.80	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 98.98%				
d5-EtFOSAA	7.296	589.0 -> 419.0	9634	38.92	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 97.29%				
13C2-PFDA	8.497	515.0 -> 470.0	18537	18.98	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 94.88%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	10283	21.388	µg/L		100
PFPeA	3.999	263.0 -> 219.0	3078	20.893	µg/L		100
PFBS	4.141	299.0 -> 80.0	6354	19.811	µg/L		95
PFHxA	4.983	313.0 -> 269.0	8119	19.899	µg/L		100
PFHxS	5.805	399.0 -> 80.0	11138	19.898	µg/L		87
PFHpA	5.810	363.0 -> 319.0	14704	19.394	µg/L	#	72
PFHpS	6.496	449.0 -> 80.0	11871	19.498	µg/L		100
PFOA	6.539	413.0 -> 369.0	29211	19.756	µg/L		83
PFOSA	6.637	498.0 -> 78.0	13413	19.621	µg/L		100
MeFOSAA	7.188	570.0 -> 419.0	11148	38.004	µg/L		100
PFOS	7.191	499.0 -> 80.0	19582	19.947	µg/L		92
PFNA	7.281	463.0 -> 419.0	13510	18.767	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	10004	38.240	µg/L		100
PFDA	8.504	513.0 -> 469.0	14653	19.164	µg/L		100
PFDS	9.773	599.0 -> 80.0	4912	18.794	µg/L		100
PFUnDA	10.030	563.0 -> 519.0	11326	19.060	µg/L		100
PFDoDA	11.319	613.0 -> 569.0	13459	19.421	µg/L		100
PFTrDA	12.426	663.0 -> 619.0	9240	19.302	µg/L		100
PFTeDA	13.439	713.0 -> 669.0	5638	19.005	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

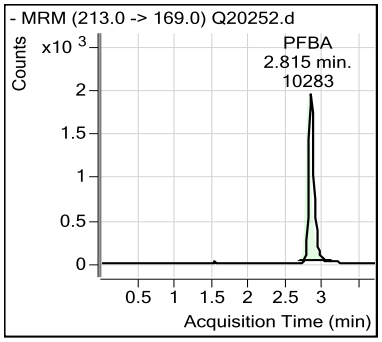
SGS ACCUTEST FA32826

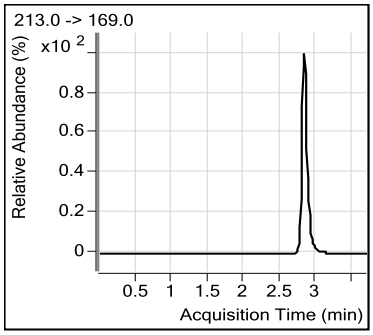
Perfluorinated Compounds by LC/MS/MS.

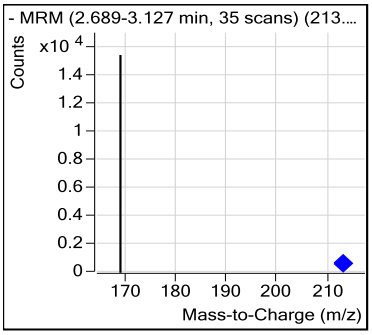
Data File	:	Q20252.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 15:31
Sample Name	:	ICC607-20
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Last Calib Update	:	2016-04-13 09:33



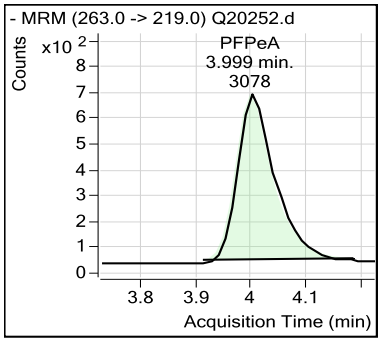
PFBA

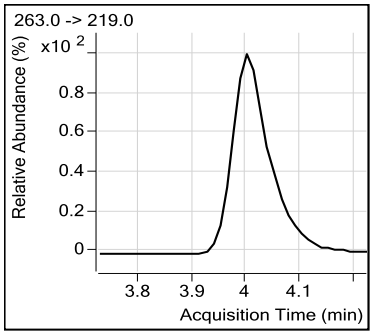


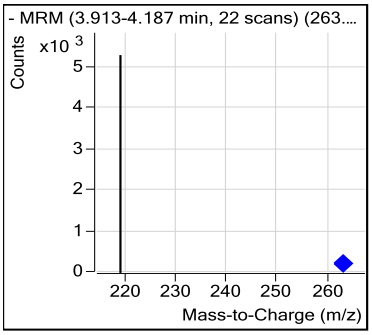




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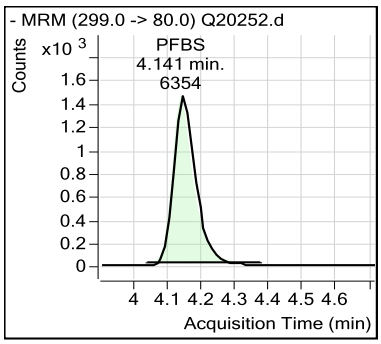


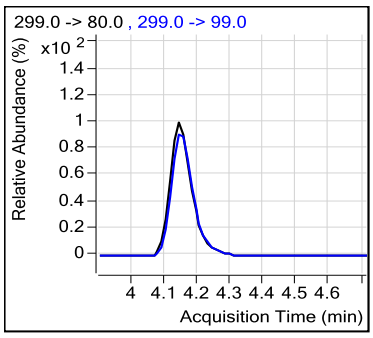


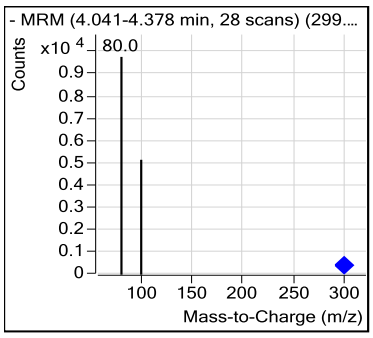


Perfluorinated Compounds by LC/MS/MS.

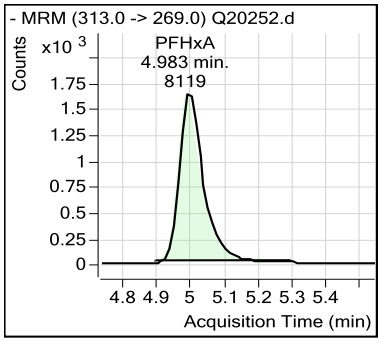
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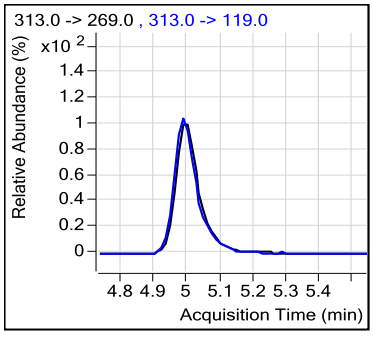


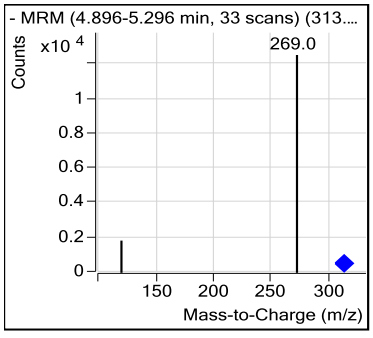




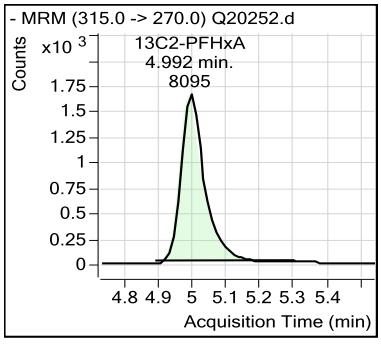
PFHxA

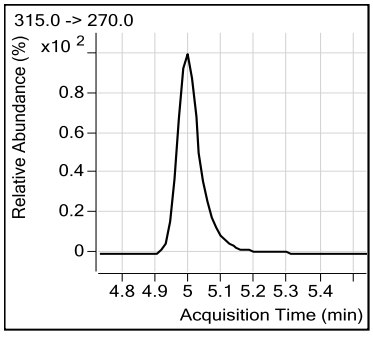


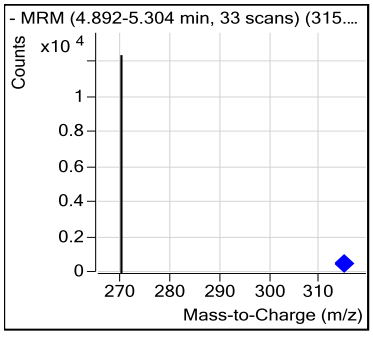




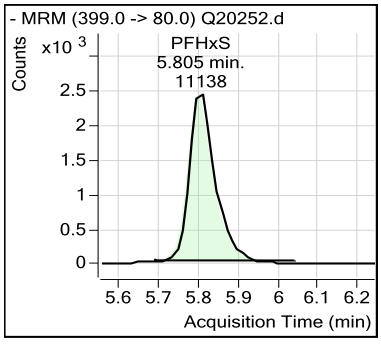
13C2-PFHxA

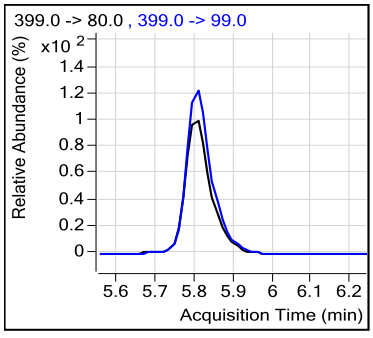


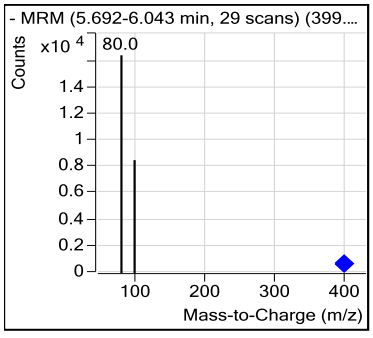




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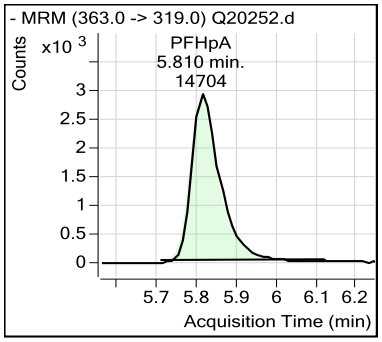


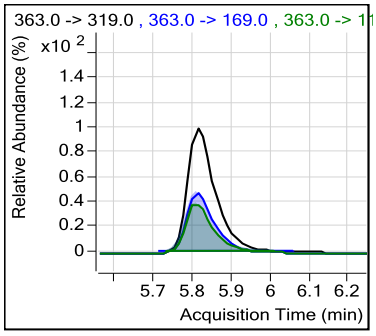


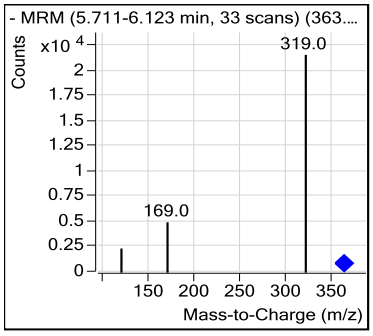
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

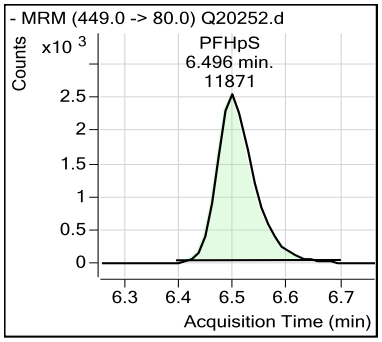
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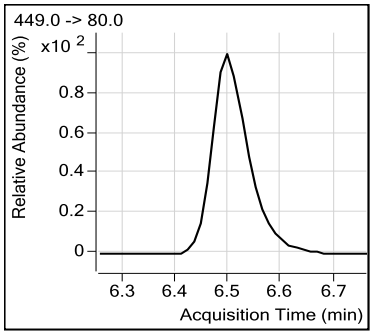


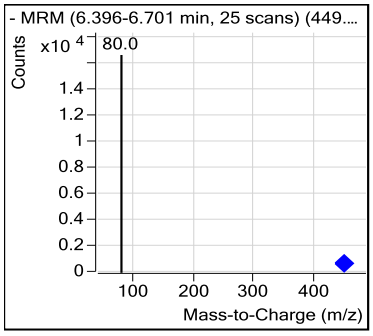




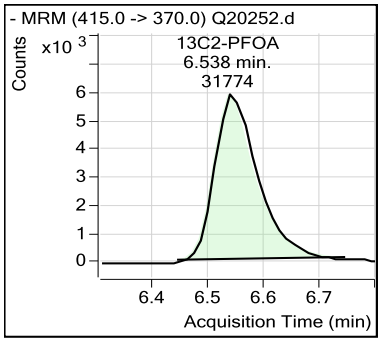
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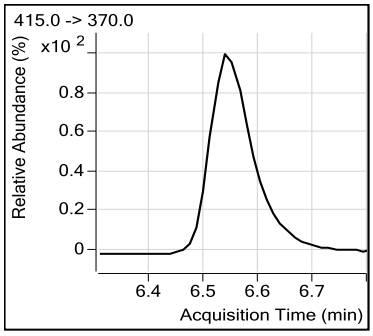


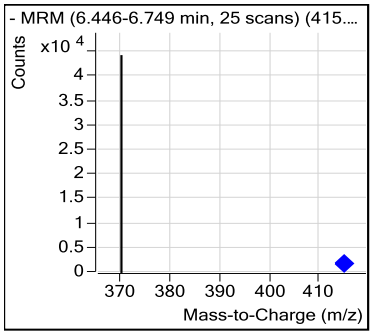




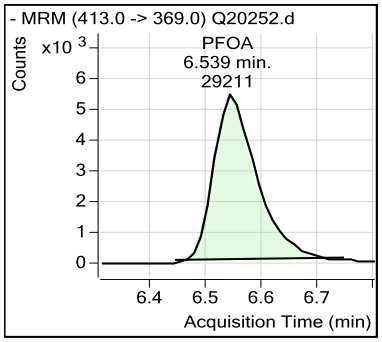
13C2-PFOA

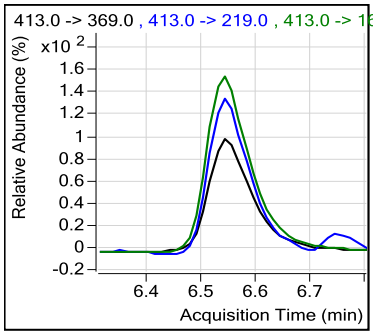


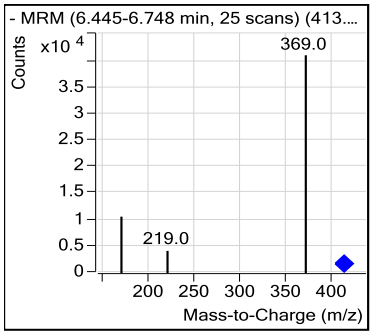




PFOA

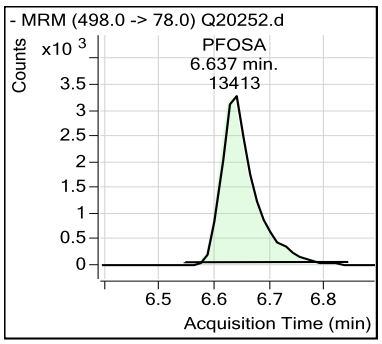


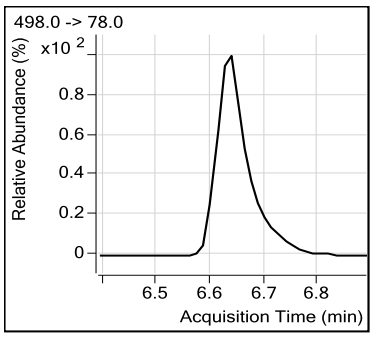


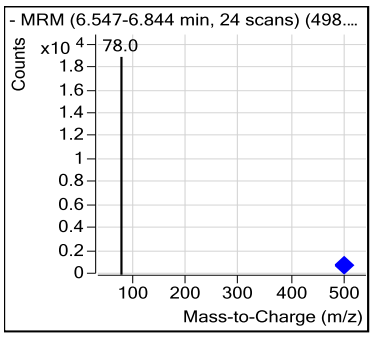


Perfluorinated Compounds by LC/MS/MS.

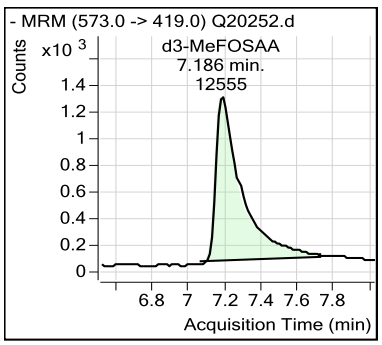
PFOSA

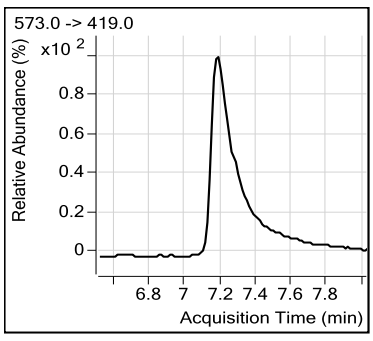


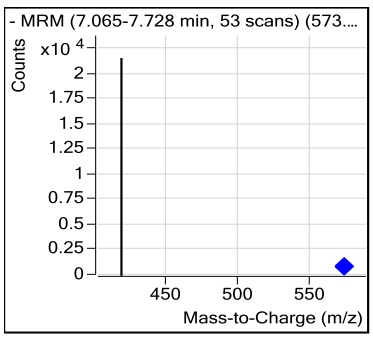




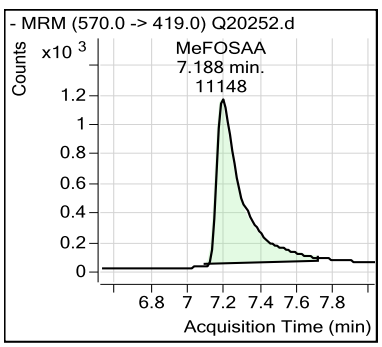
d3-MeFOSAA

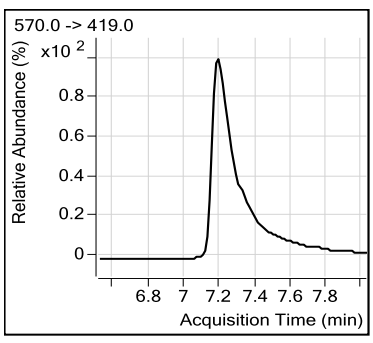


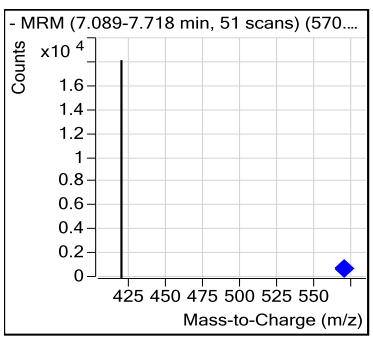




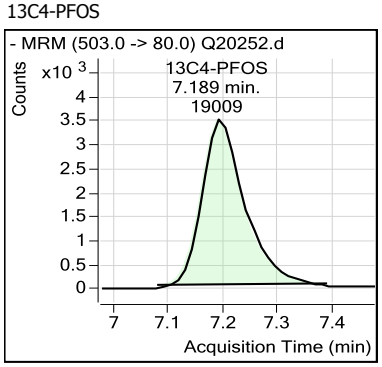
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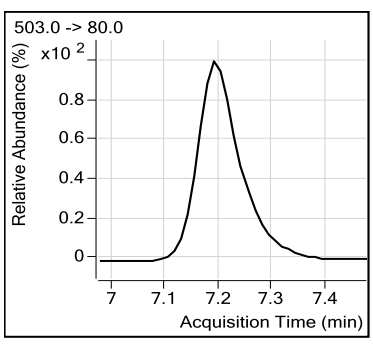


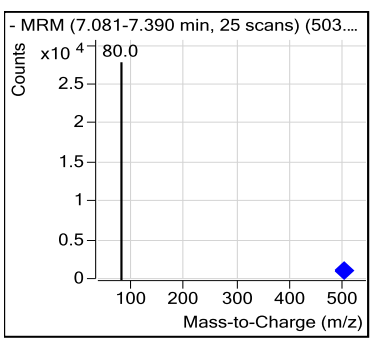




13C4-PFOS

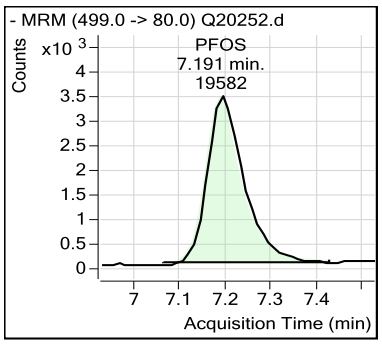


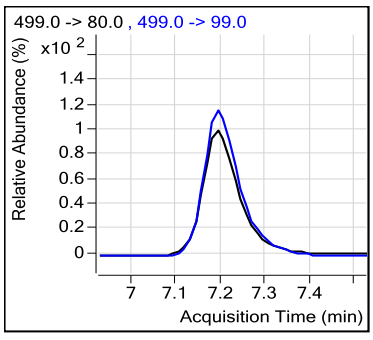


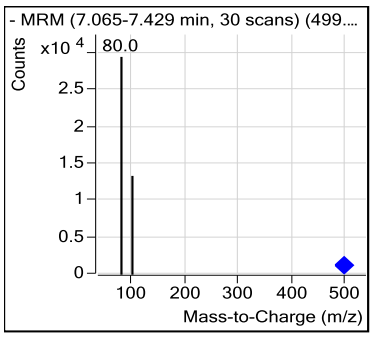


Perfluorinated Compounds by LC/MS/MS.

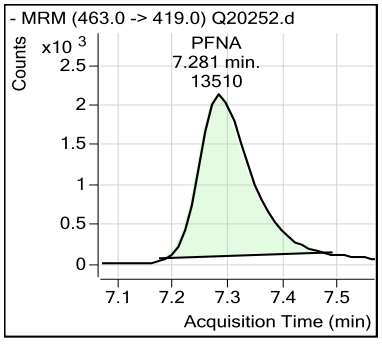
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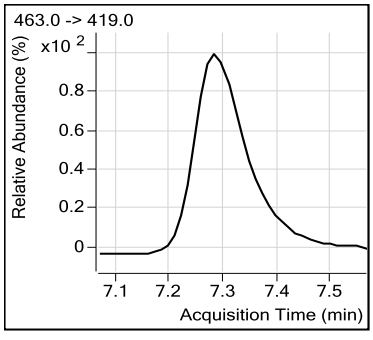


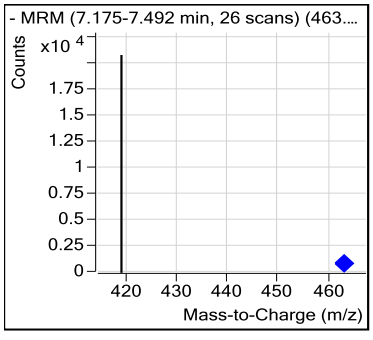




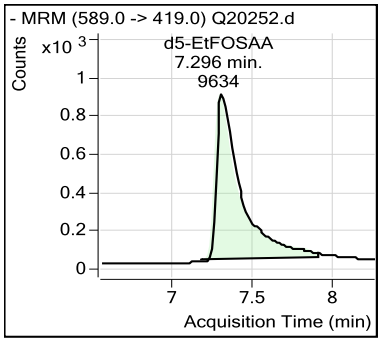
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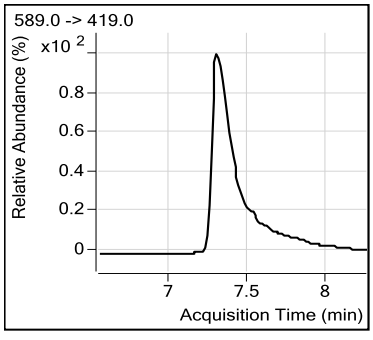


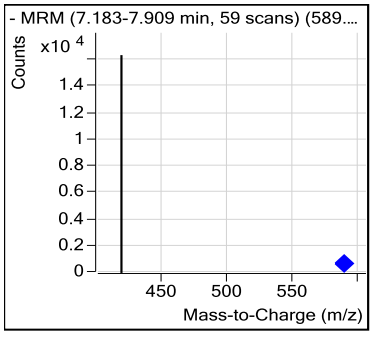




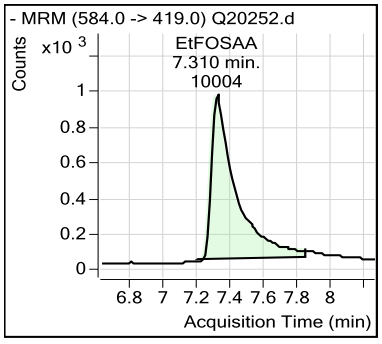
d5-EtFOSAA

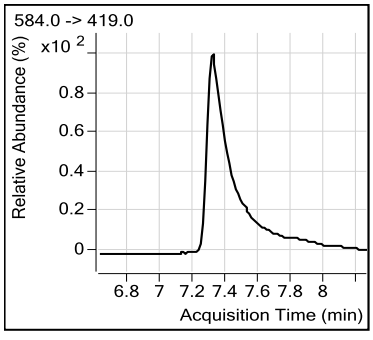


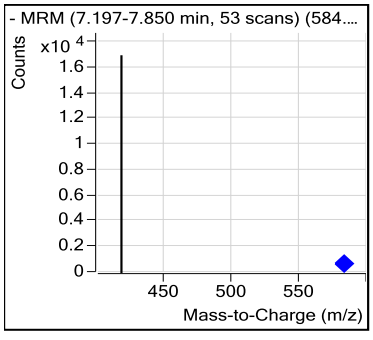




EtFOSAA



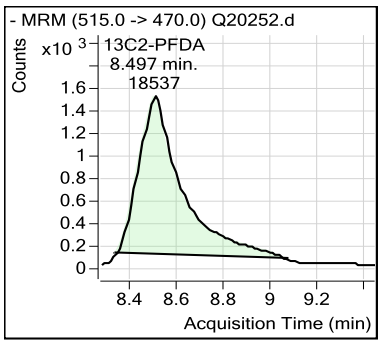


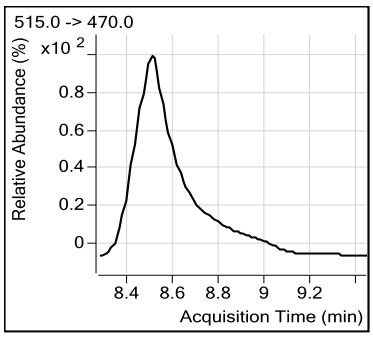


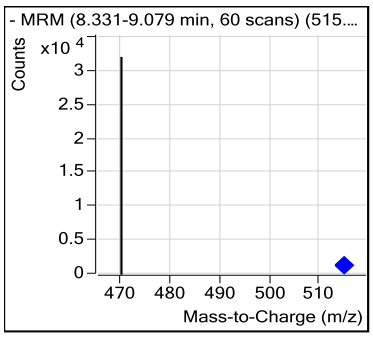
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

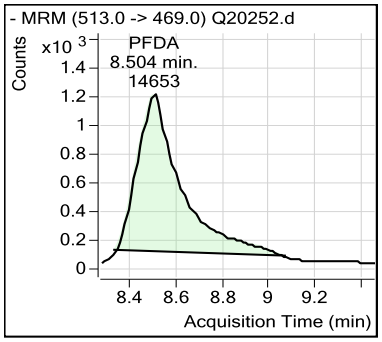
13C2-PFDA

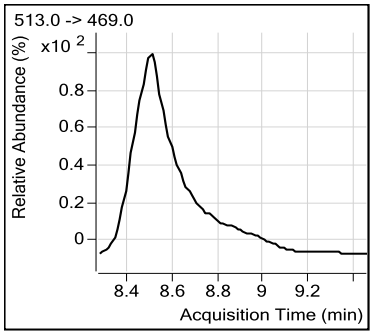


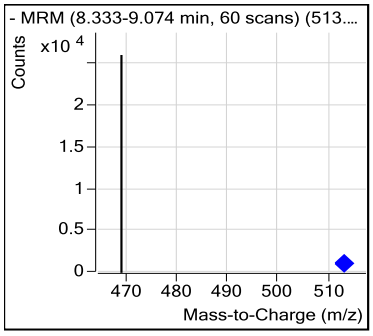




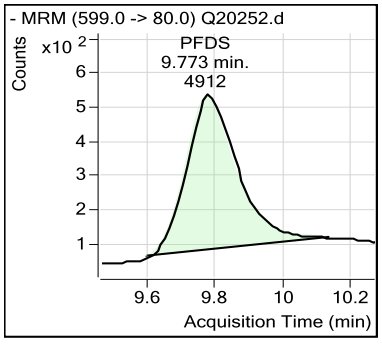
PFDA

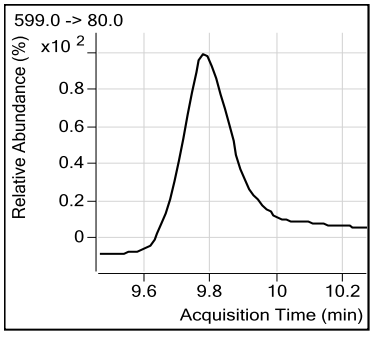


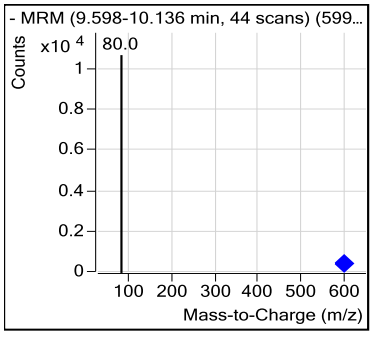




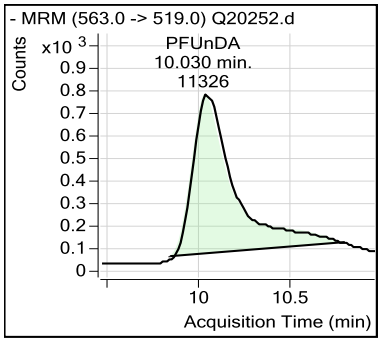
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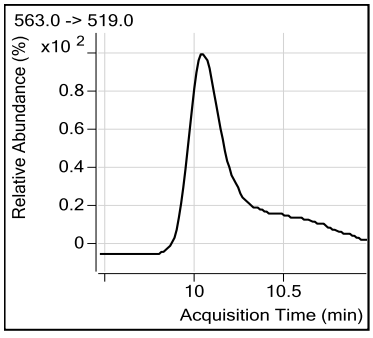


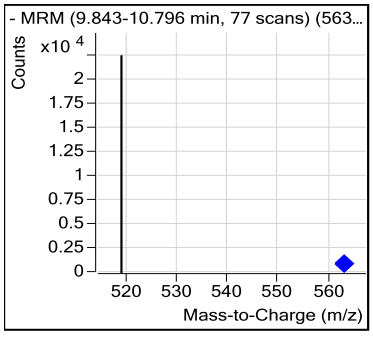




PFUnDA



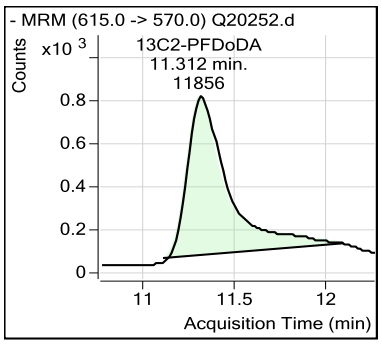


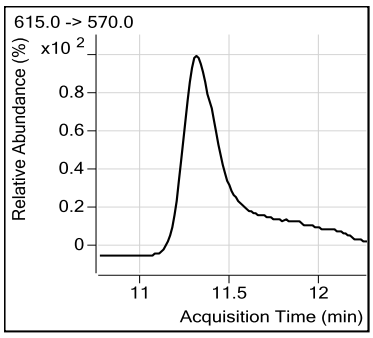


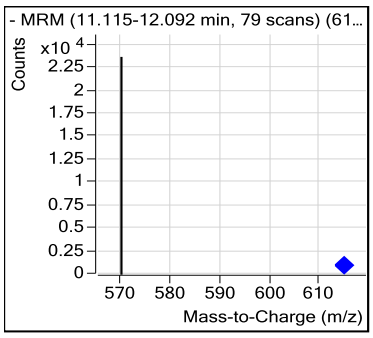
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

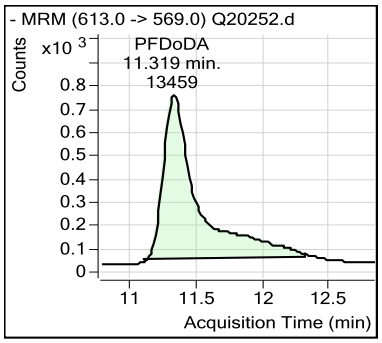
13C2-PFDoDA

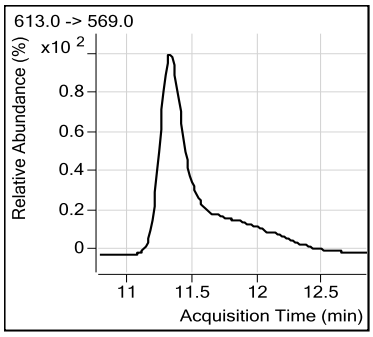


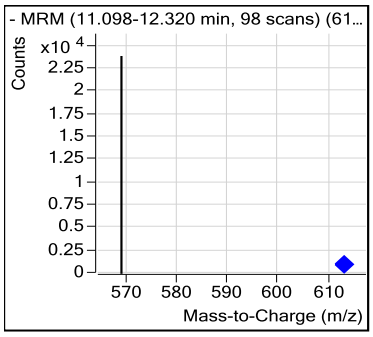




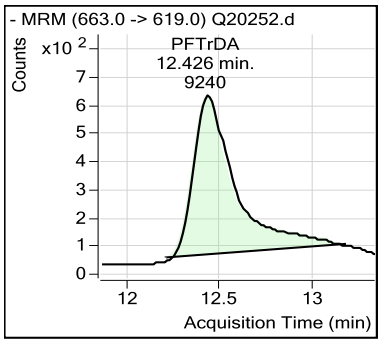
PFDoDA

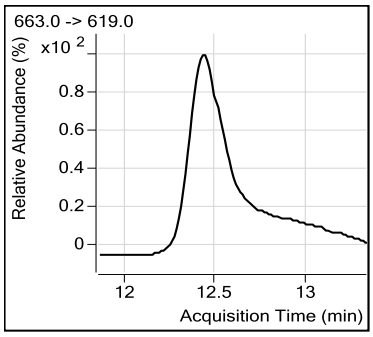


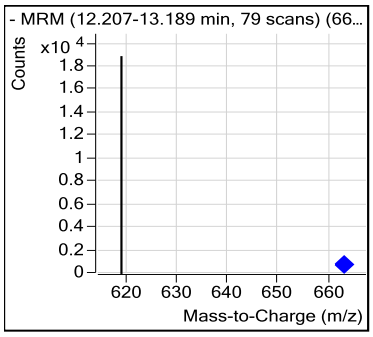




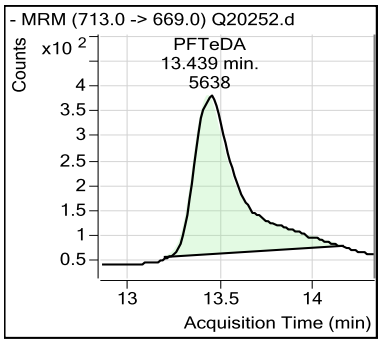
PFTrDA

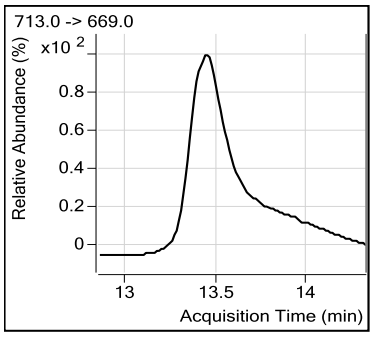


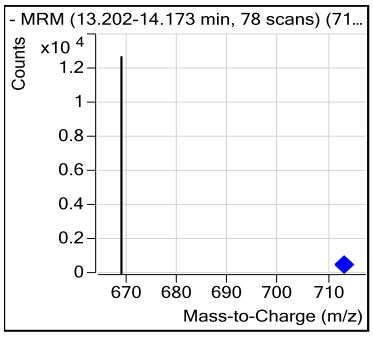




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

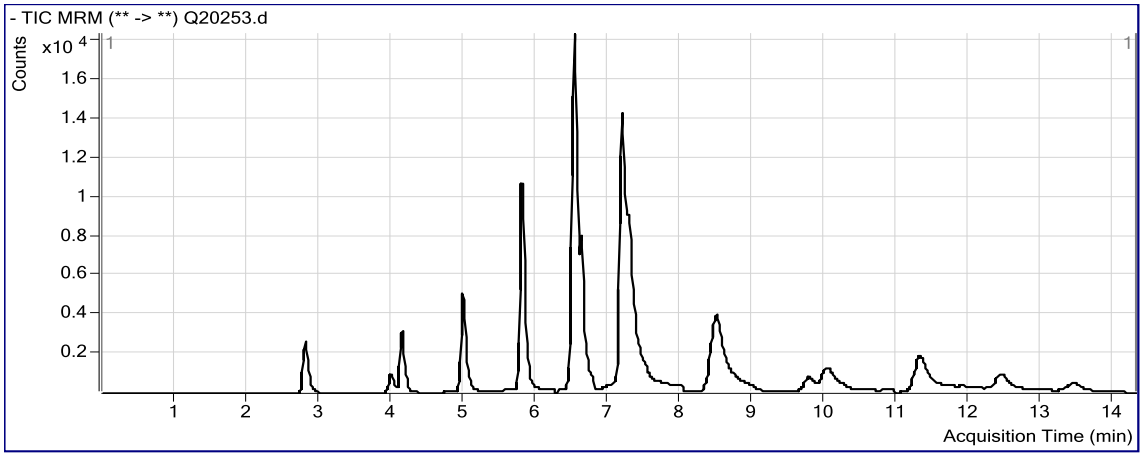
Data File	:	Q20253.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 15:52
Sample Name	:	IC607-30
Vial	:	Vial 6
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	30603	20.000	µg/L		0.000
d3-MeFOSAA	7.173	573.0 -> 419.0	11764	40.000	µg/L		-0.013
13C4-PFOS	7.189	503.0 -> 80.0	18499	20.000	µg/L		0.000
13C2-PFDoDA	11.312	615.0 -> 570.0	11574	20.000	µg/L		0.000
System Monitoring Compounds							
13C2-PFHxA	4.979	315.0 -> 270.0	12158	30.87	µg/L		-0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 154.35%				
d5-EtFOSAA	7.283	589.0 -> 419.0	14259	61.54	µg/L		-0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 153.85%				
13C2-PFDA	8.497	515.0 -> 470.0	28547	30.34	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 151.71%				
Target Compounds							**Qvalue**
PFBA	2.802	213.0 -> 169.0	14443	31.189	µg/L		100
PFPeA	3.999	263.0 -> 219.0	4419	31.148	µg/L		100
PFBS	4.141	299.0 -> 80.0	9450	30.279	µg/L		95
PFHxA	4.983	313.0 -> 269.0	12277	31.240	µg/L		99
PFHxS	5.793	399.0 -> 80.0	16640	30.547	µg/L		87
PFHpA	5.810	363.0 -> 319.0	22465	30.764	µg/L	#	72
PFHpS	6.496	449.0 -> 80.0	18068	30.494	µg/L		100
PFOA	6.539	413.0 -> 369.0	43831	30.779	µg/L		82
PFOSA	6.637	498.0 -> 78.0	19573	30.558	µg/L		100
MeFOSAA	7.175	570.0 -> 419.0	16836	61.507	µg/L		100
PFOS	7.191	499.0 -> 80.0	30022	31.427	µg/L		91
PFNA	7.281	463.0 -> 419.0	21312	30.737	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	14829	60.835	µg/L		100
PFDA	8.491	513.0 -> 469.0	22384	30.397	µg/L		100
PFDS	9.761	599.0 -> 80.0	7753	30.384	µg/L		100
PFUnDA	10.030	563.0 -> 519.0	17714	30.538	µg/L		100
PFDoDA	11.306	613.0 -> 569.0	20493	30.292	µg/L		100
PFTrDA	12.413	663.0 -> 619.0	14257	30.508	µg/L		100
PFTeDA	13.414	713.0 -> 669.0	8777	30.306	µg/L		100

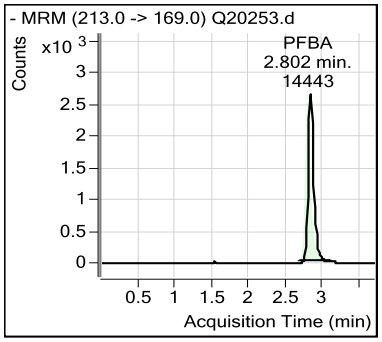
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

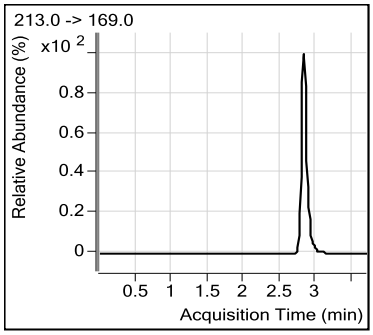
Perfluorinated Compounds by LC/MS/MS.

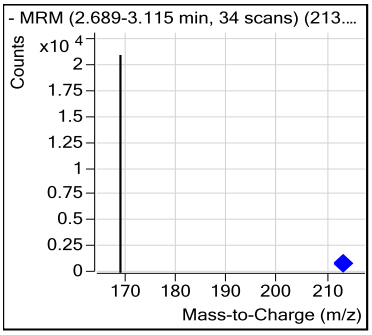
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 15:52
Sample Name	:	IC607-30
Vial	:	Vial 6
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



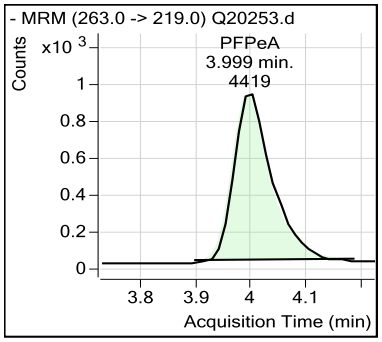
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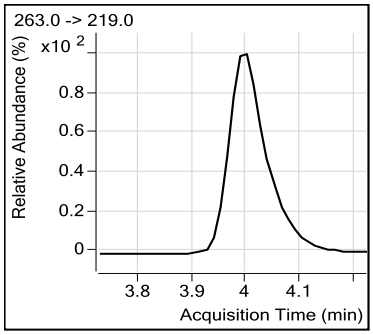


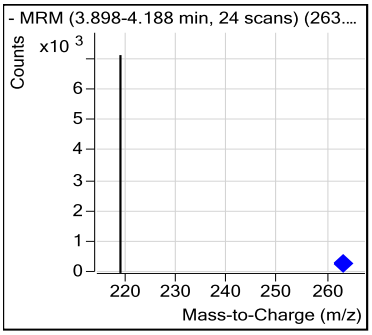




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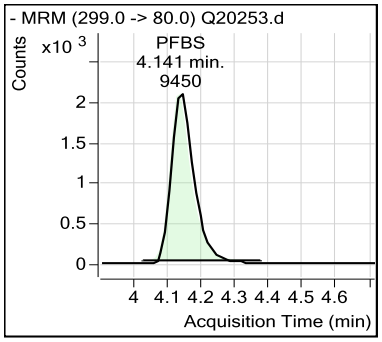


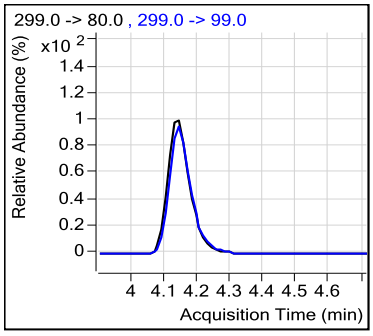


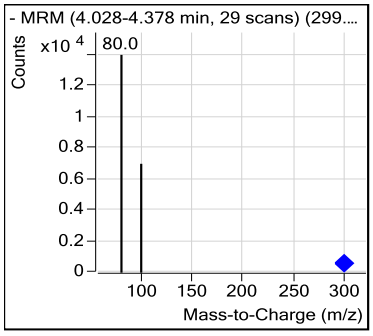


Perfluorinated Compounds by LC/MS/MS.

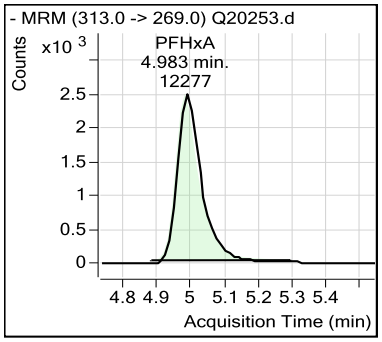
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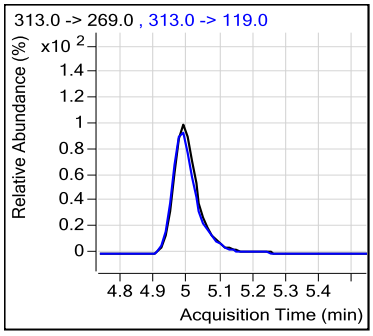


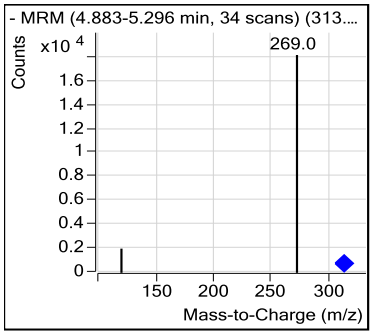




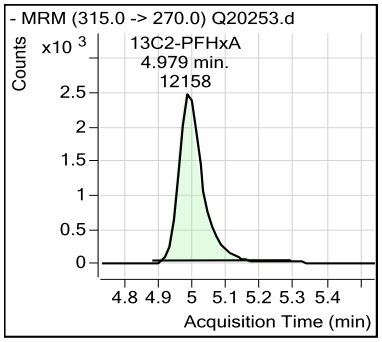
PFHxA

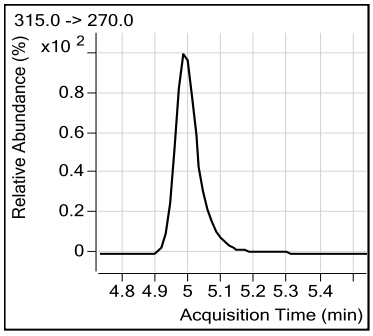


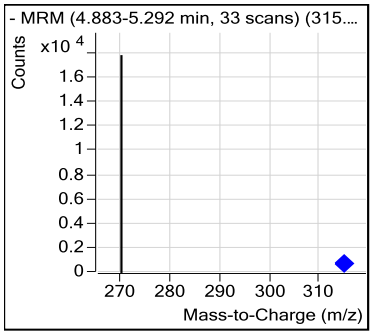




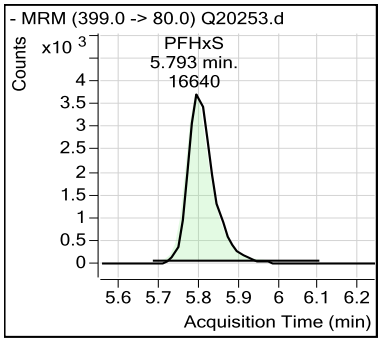
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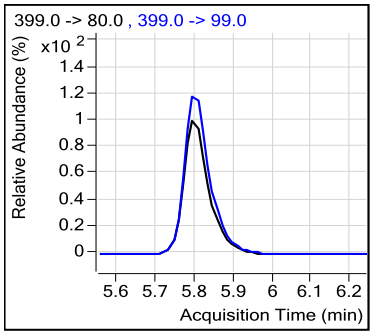


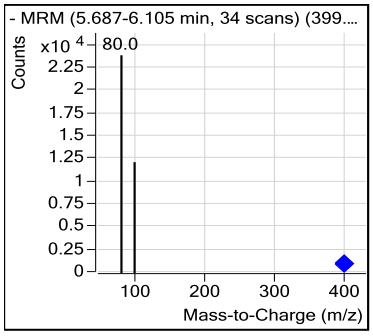




PFHxS





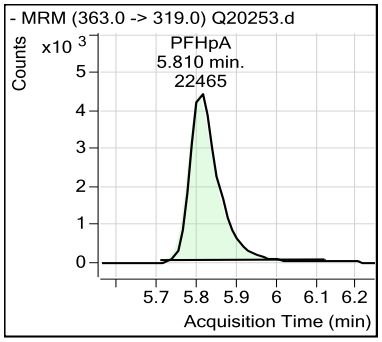


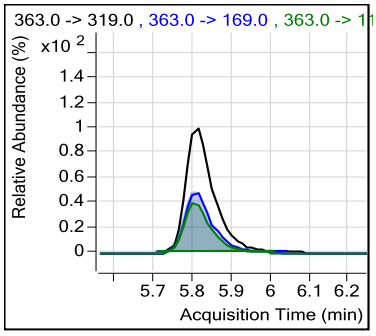
7.5.5

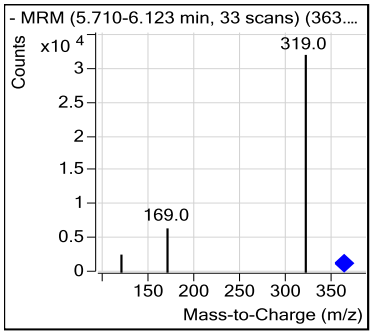
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Perfluorinated Compounds by LC/MS/MS.

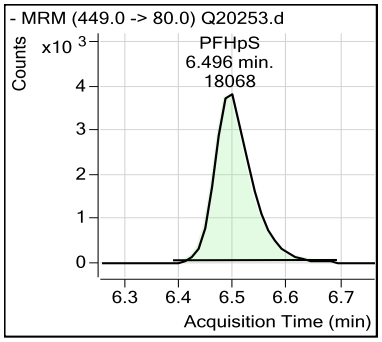
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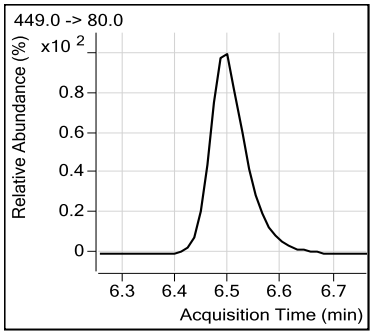


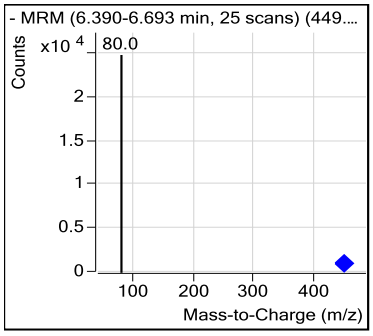




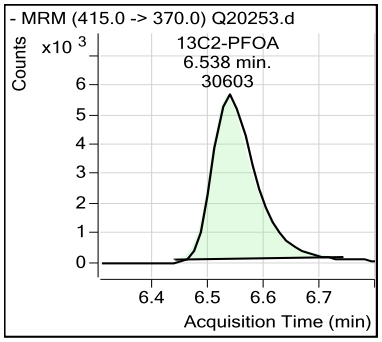
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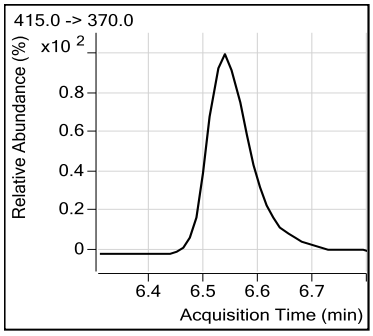


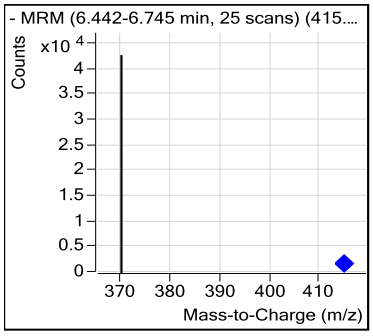




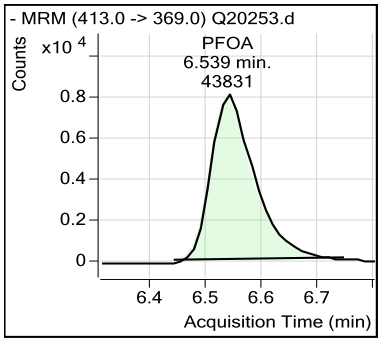
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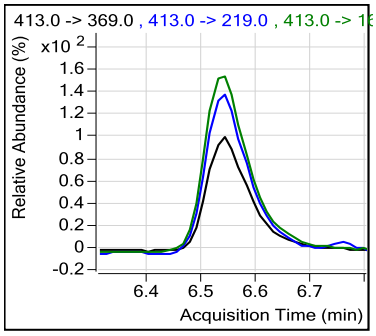


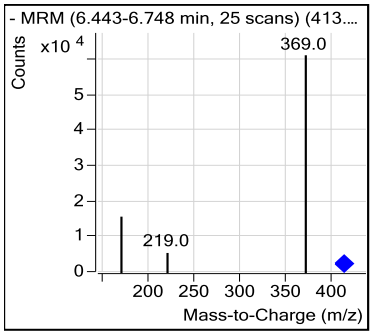




PFOA





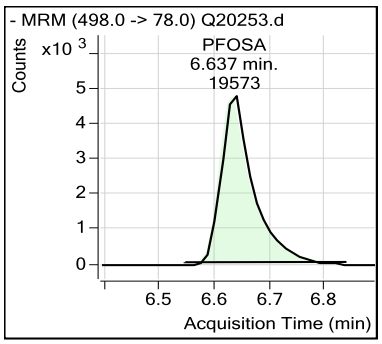


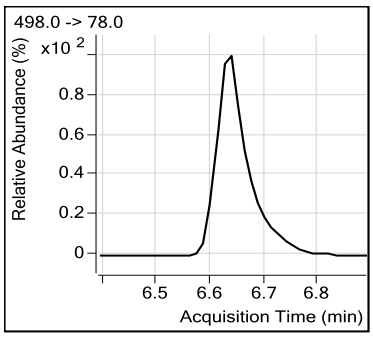
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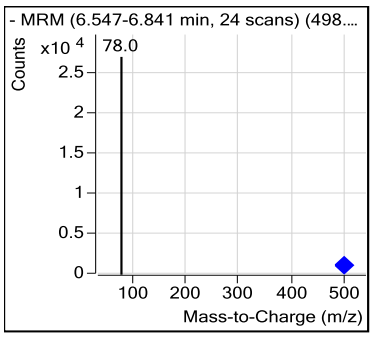
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Perfluorinated Compounds by LC/MS/MS.

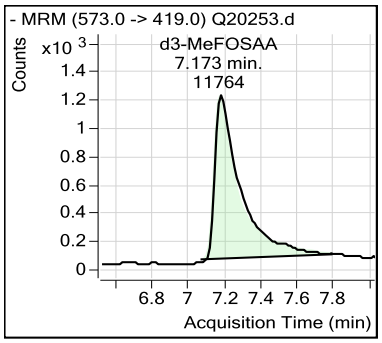
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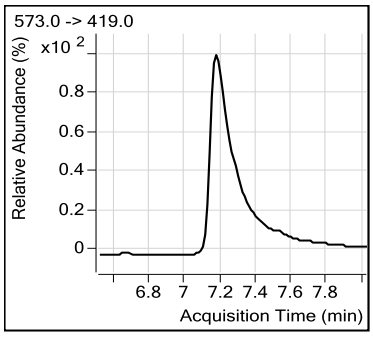


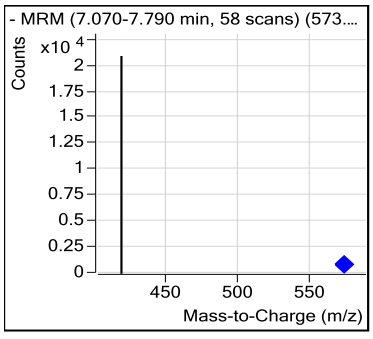




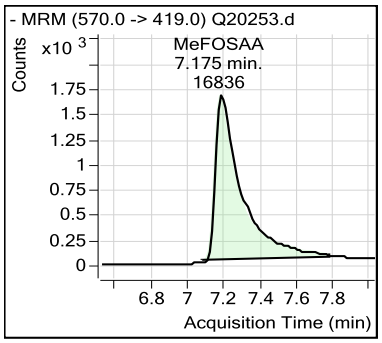
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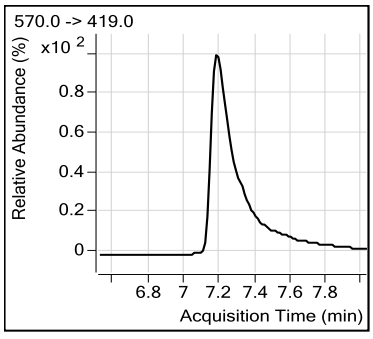


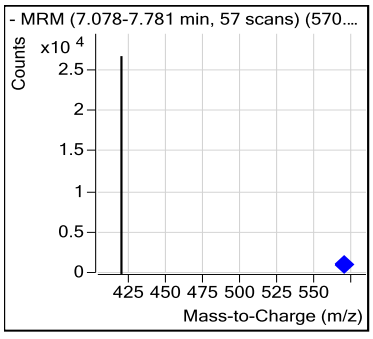




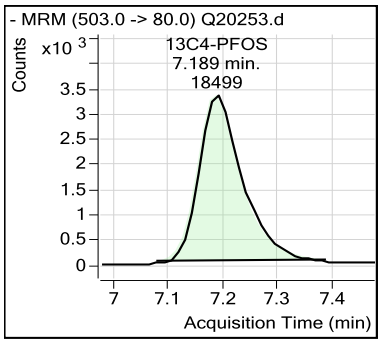
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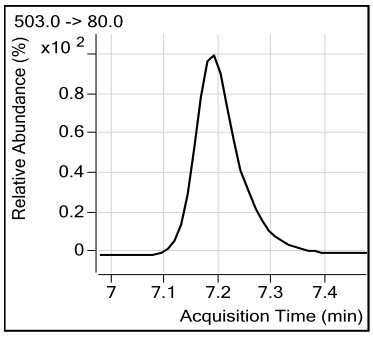


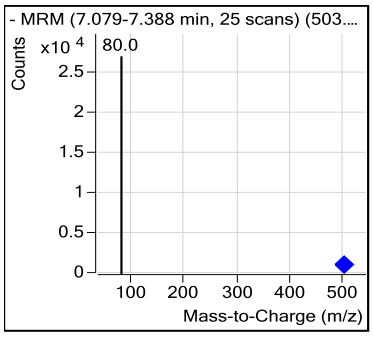




13C4-PFOS

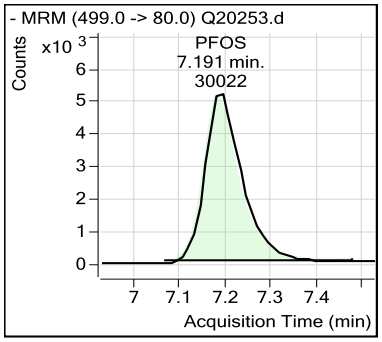


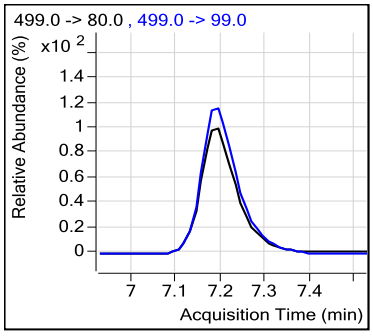


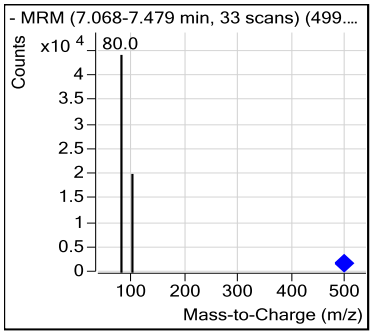


Perfluorinated Compounds by LC/MS/MS.

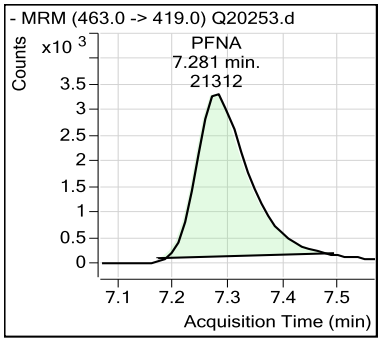
PFOS

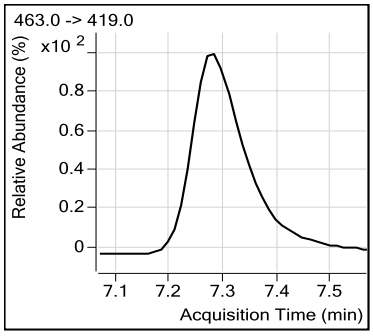


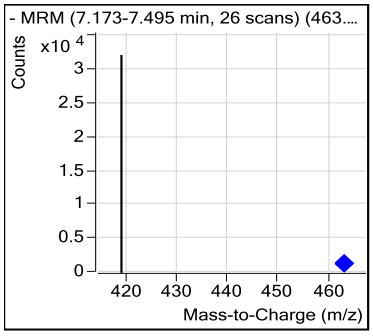




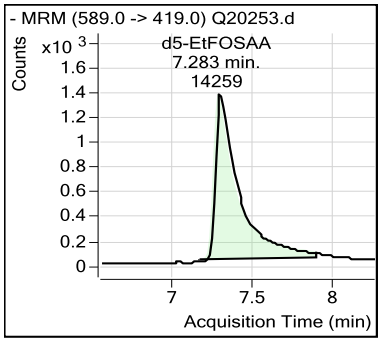
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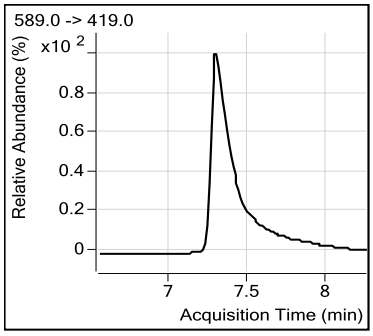


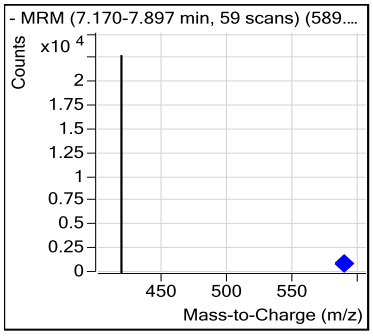




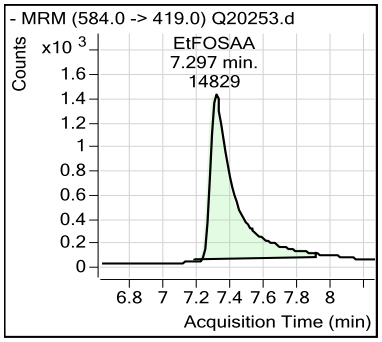
d5-EtFOSAA

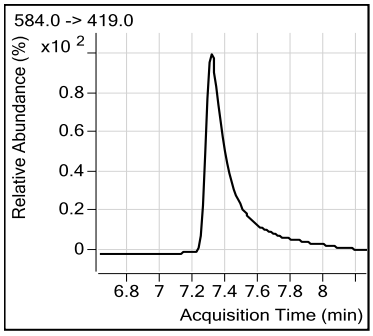


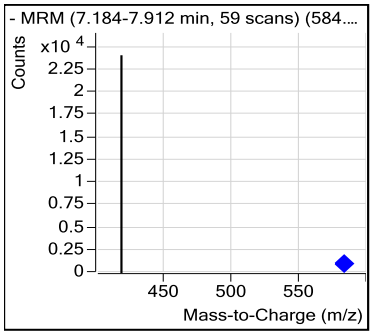




EtFOSAA





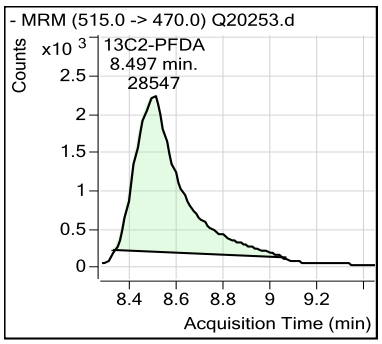


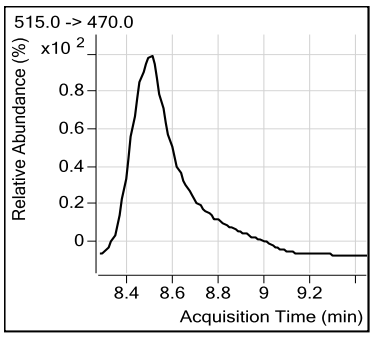
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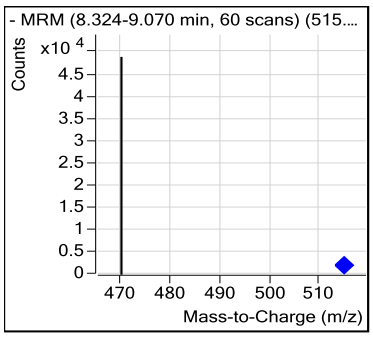
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Perfluorinated Compounds by LC/MS/MS.

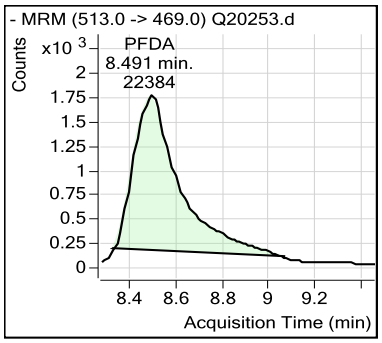
13C2-PFDA

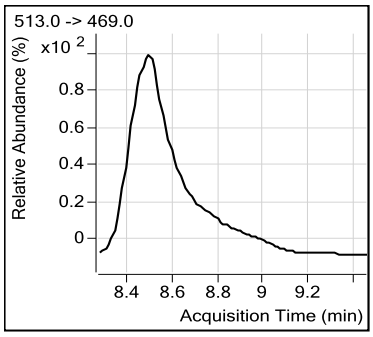


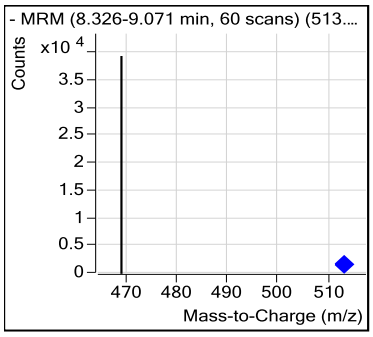




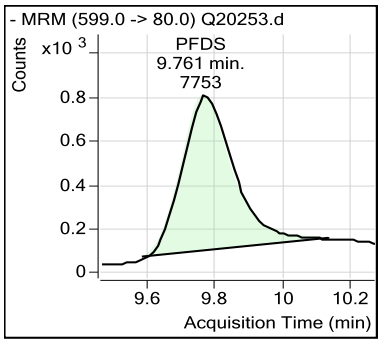
PFDA

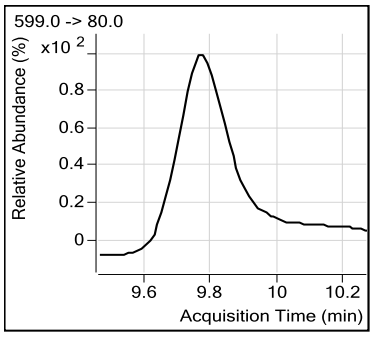


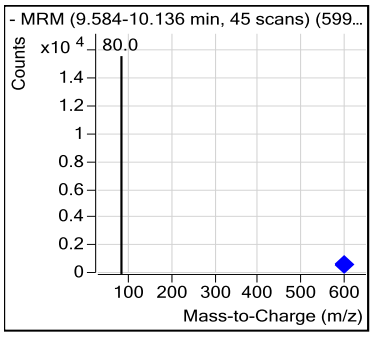




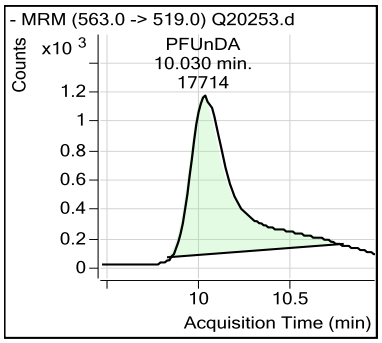
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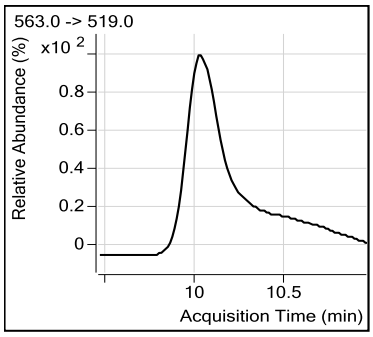


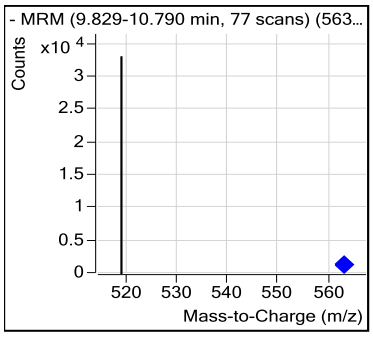




PFUnDA





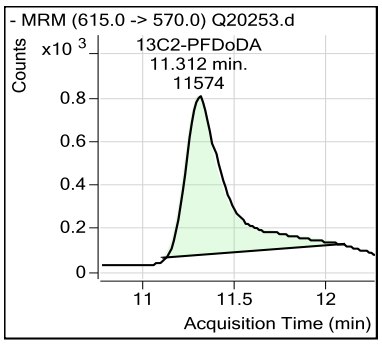


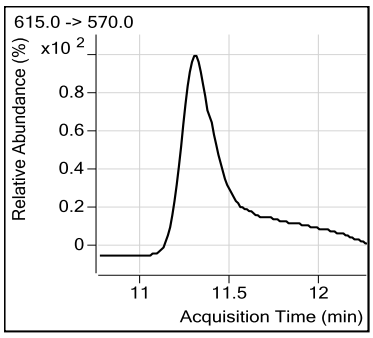
7.5.5

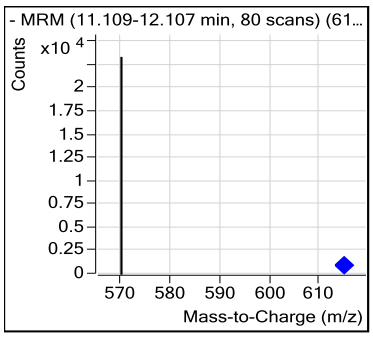
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Perfluorinated Compounds by LC/MS/MS.

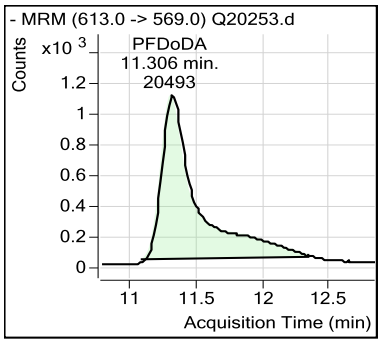
13C2-PFDoDA

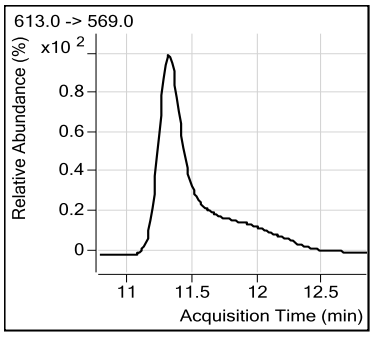


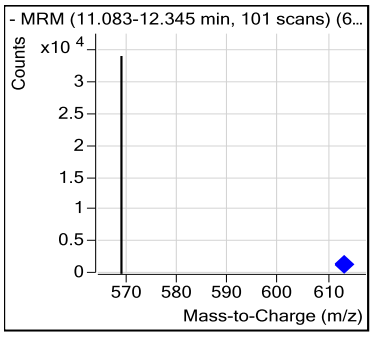




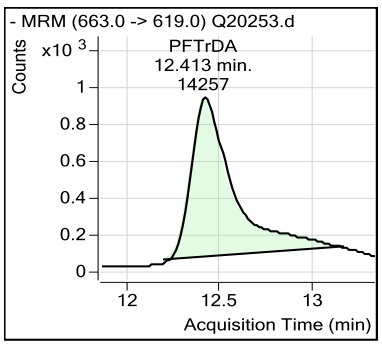
PFDoDA

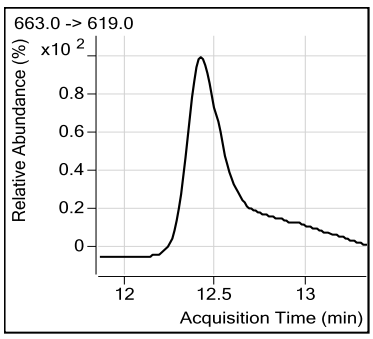


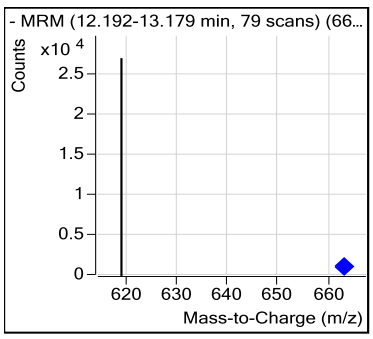




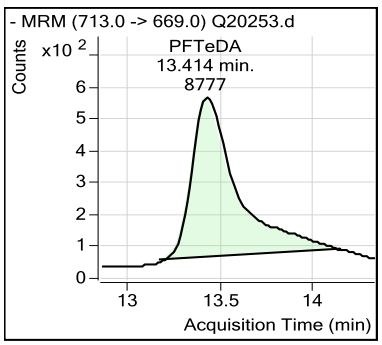
PFTrDA

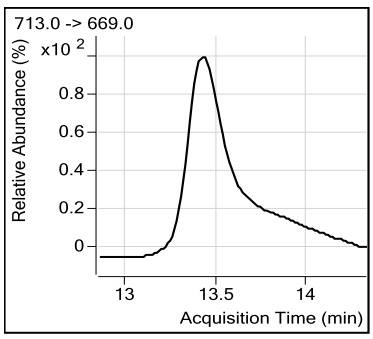


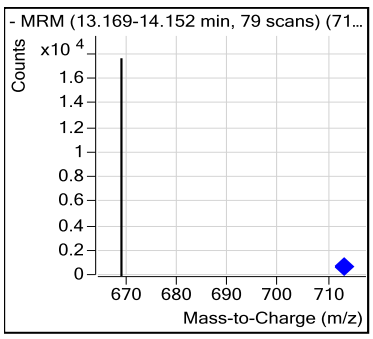




PFTeDA







7.5.5

7

SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20254.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 16:13
Sample Name	:	IC607-40
Vial	:	Vial 7
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

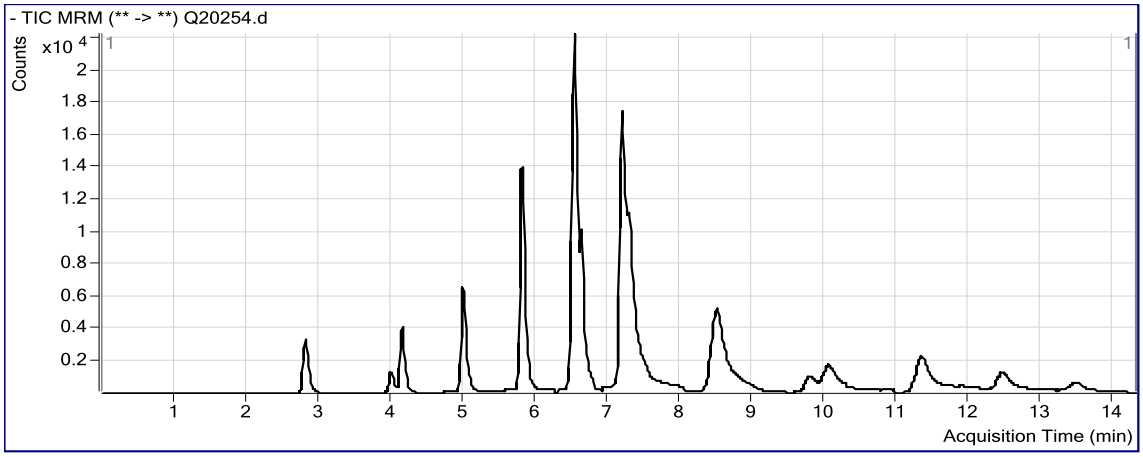
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	31024	20.000	µg/L		0.000
d3-MeFOSAA	7.173	573.0 -> 419.0	11852	40.000	µg/L		-0.013
13C4-PFOS	7.189	503.0 -> 80.0	18506	20.000	µg/L		0.000
13C2-PFDoDA	11.325	615.0 -> 570.0	11646	20.000	µg/L		0.012
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	15997	40.06	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 200.31%				
d5-EtFOSAA	7.296	589.0 -> 419.0	19004	79.74	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 199.35%				
13C2-PFDA	8.497	515.0 -> 470.0	38228	40.08	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 200.40%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	18686	39.805	µg/L		100
PFPeA	3.999	263.0 -> 219.0	5727	39.815	µg/L		100
PFBS	4.141	299.0 -> 80.0	12572	40.265	µg/L		95
PFHxA	4.983	313.0 -> 269.0	15932	39.990	µg/L		100
PFHxS	5.793	399.0 -> 80.0	21923	40.230	µg/L		86
PFHpA	5.810	363.0 -> 319.0	29679	40.092	µg/L	#	72
PFHpS	6.496	449.0 -> 80.0	23933	40.376	µg/L		100
PFOA	6.539	413.0 -> 369.0	57445	39.791	µg/L		82
PFOSA	6.637	498.0 -> 78.0	25820	40.015	µg/L		100
MeFOSAA	7.188	570.0 -> 419.0	22652	80.780	µg/L		100
PFOS	7.191	499.0 -> 80.0	38225	39.998	µg/L		88
PFNA	7.281	463.0 -> 419.0	28006	39.843	µg/L		100
EtFOSAA	7.297	584.0 -> 419.0	20303	81.223	µg/L		100
PFDA	8.491	513.0 -> 469.0	29783	39.895	µg/L		100
PFDS	9.773	599.0 -> 80.0	10304	40.136	µg/L		100
PFUnDA	10.042	563.0 -> 519.0	23374	40.048	µg/L		100
PFDoDA	11.331	613.0 -> 569.0	27341	40.165	µg/L		100
PFTrDA	12.438	663.0 -> 619.0	18772	39.919	µg/L		100
PFTeDA	13.439	713.0 -> 669.0	11701	40.154	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

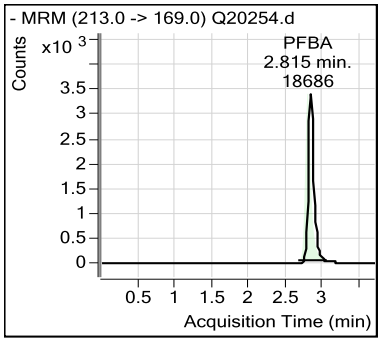
SGS ACCUTEST FA32826

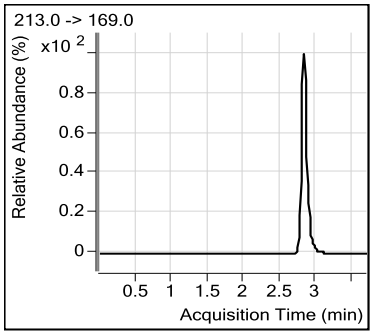
Perfluorinated Compounds by LC/MS/MS.

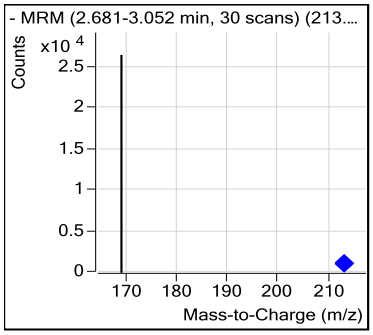
Data File	:	Q20254.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 16:13
Sample Name	:	IC607-40
Vial	:	Vial 7
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



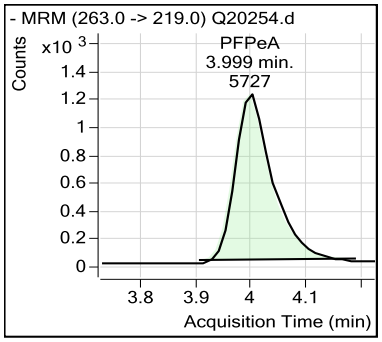
PFBA

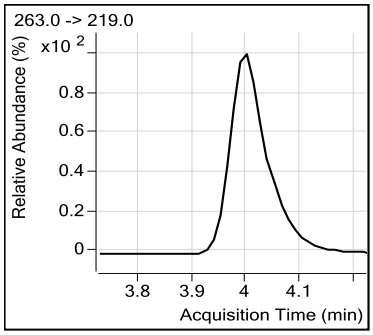


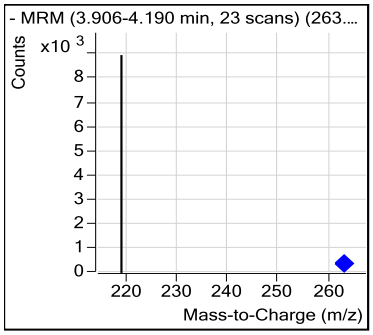




PFPeA

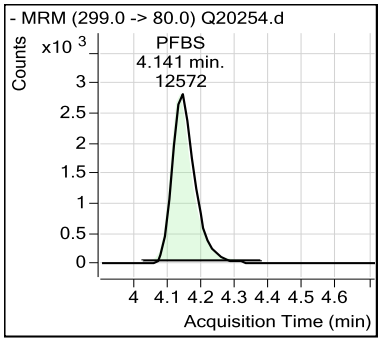


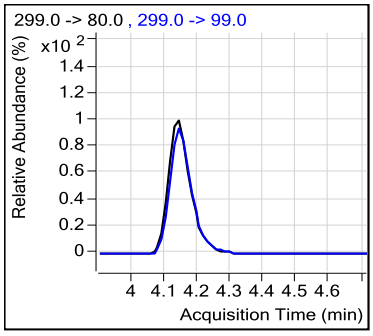


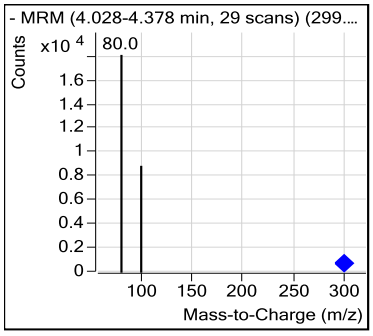


Perfluorinated Compounds by LC/MS/MS.

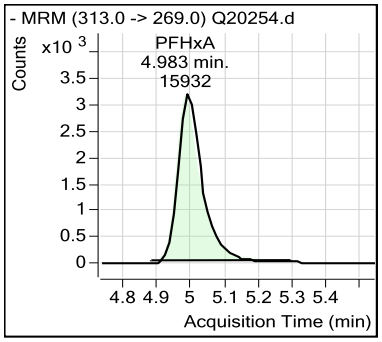
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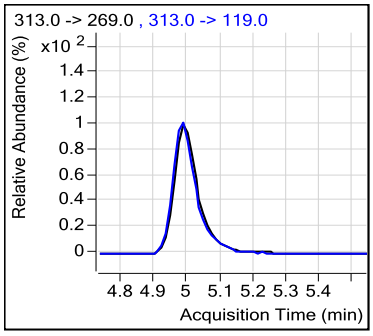


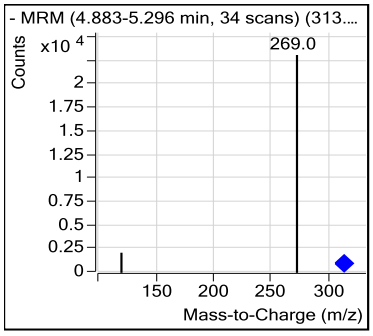




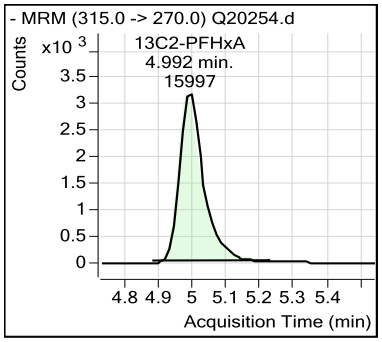
PFHxA

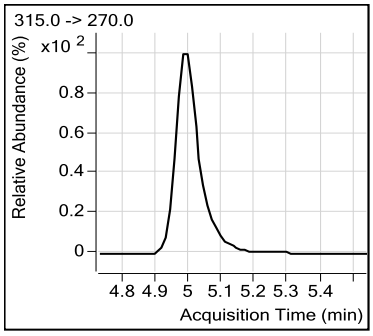


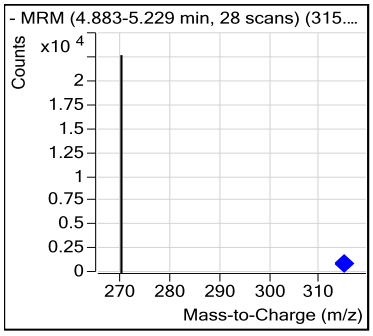




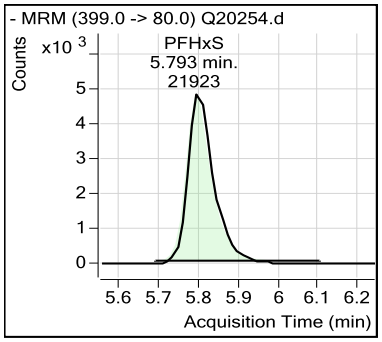
13C2-PFHxA

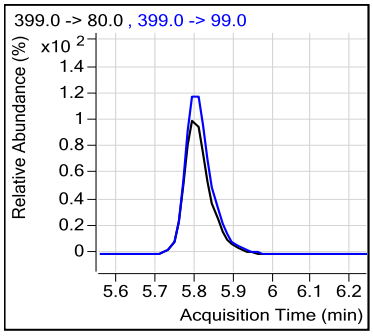


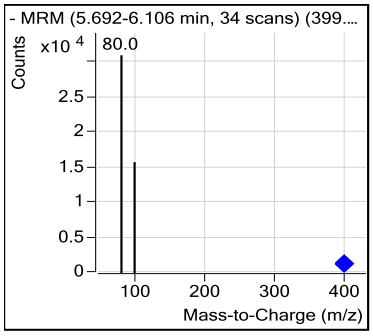




PFHxS

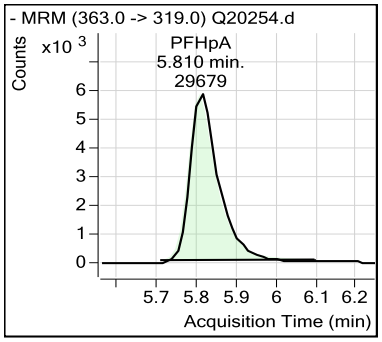


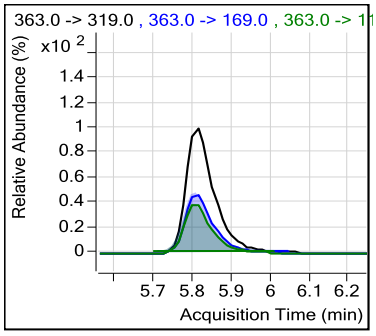


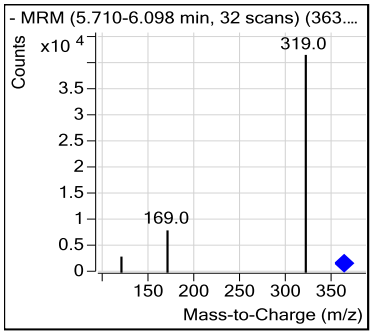


Perfluorinated Compounds by LC/MS/MS.

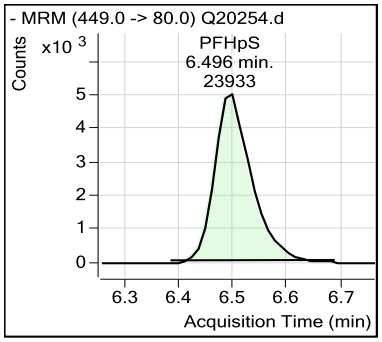
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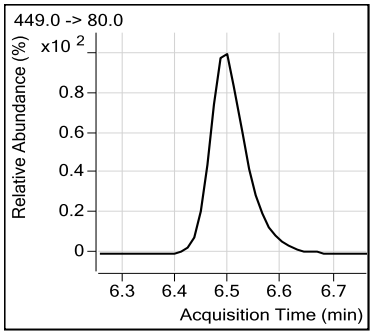


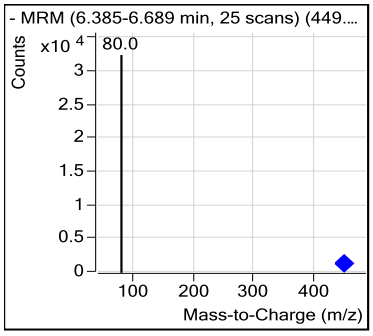




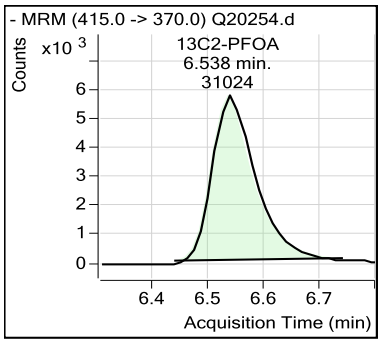
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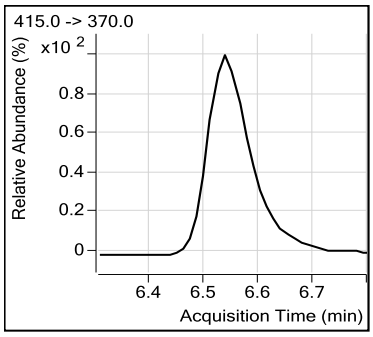


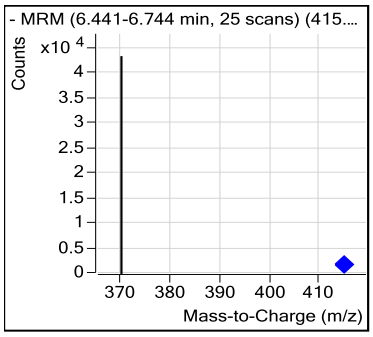




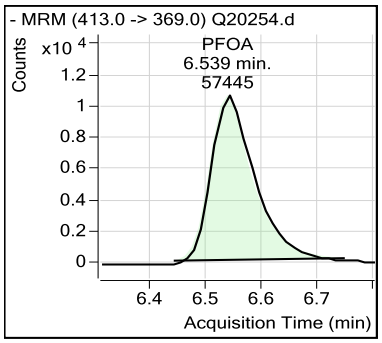
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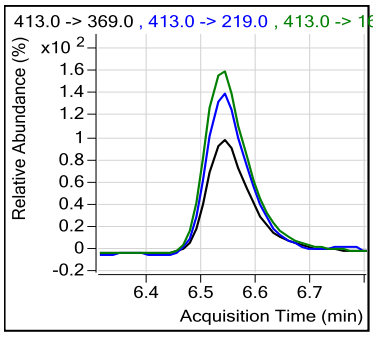


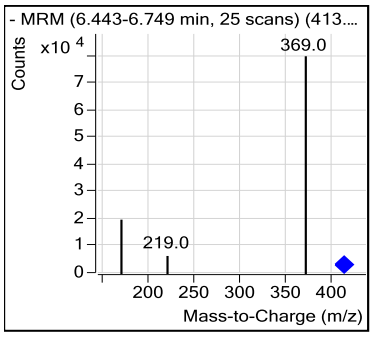




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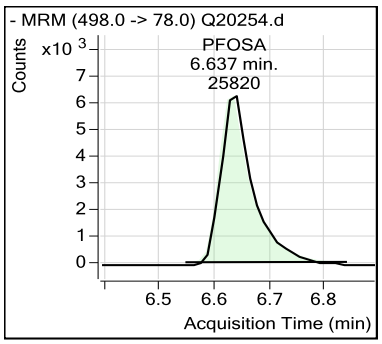


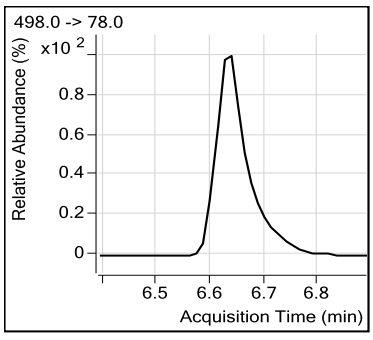


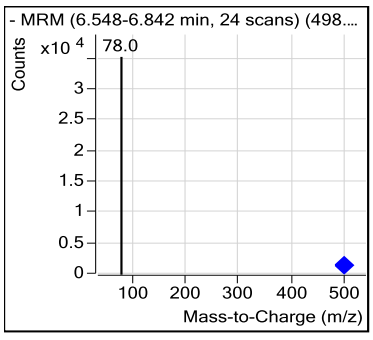


Perfluorinated Compounds by LC/MS/MS.

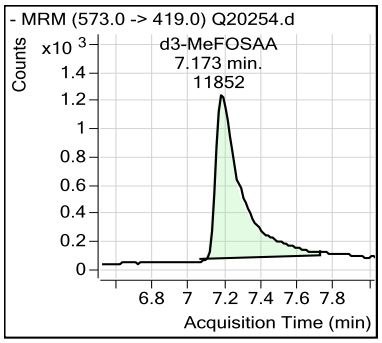
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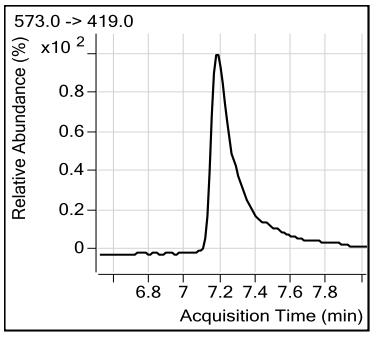


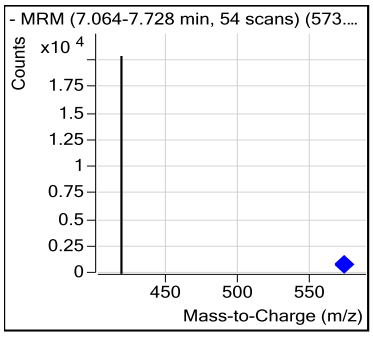




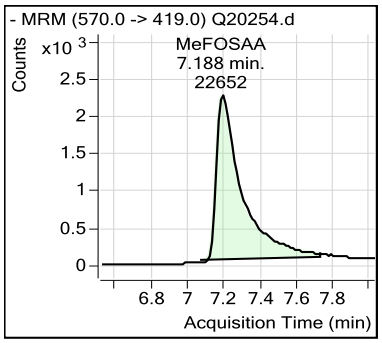
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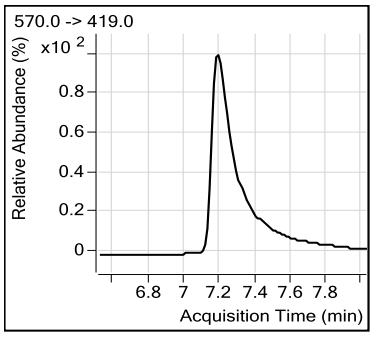


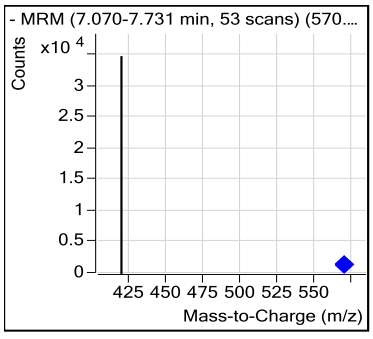




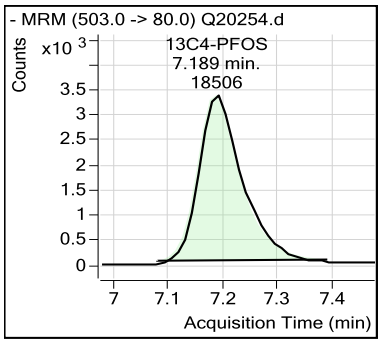
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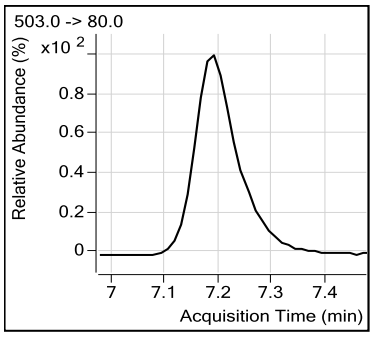


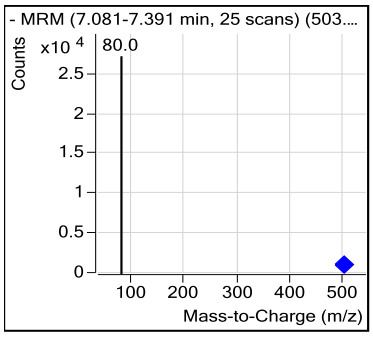




13C4-PFOS

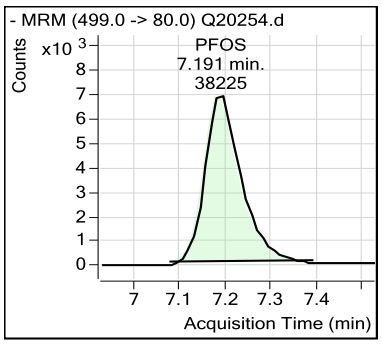


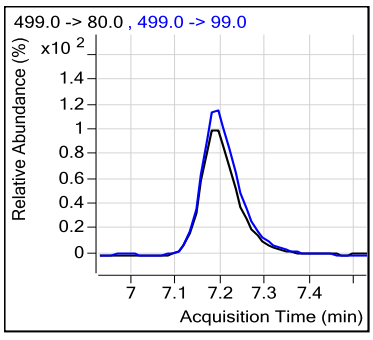


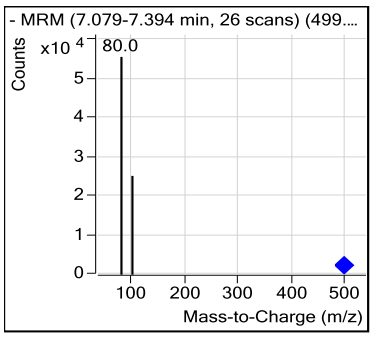


Perfluorinated Compounds by LC/MS/MS.

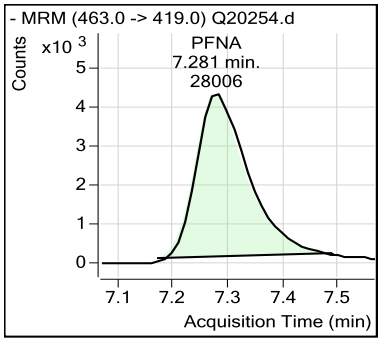
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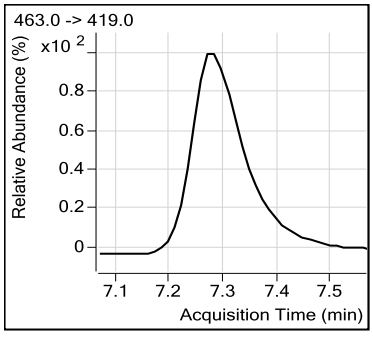


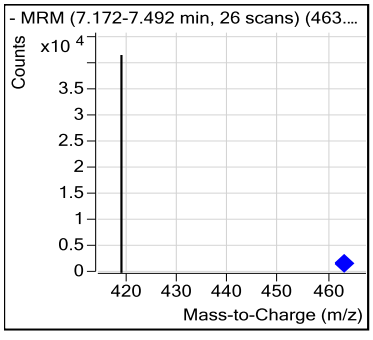




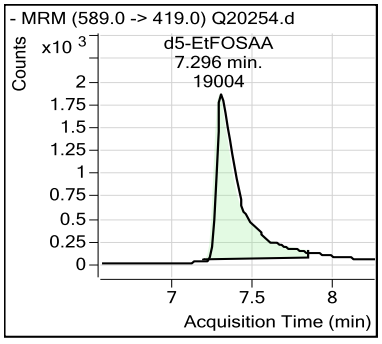
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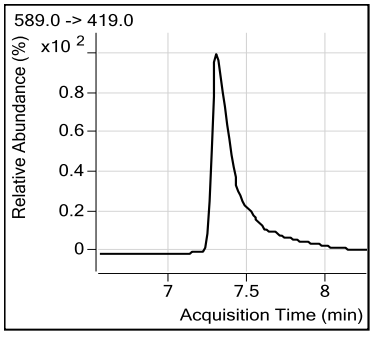


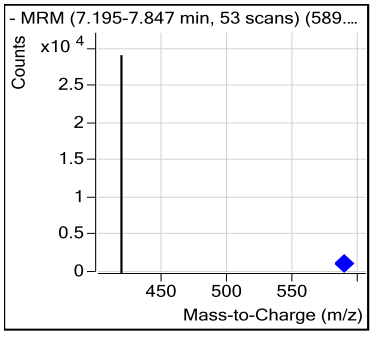




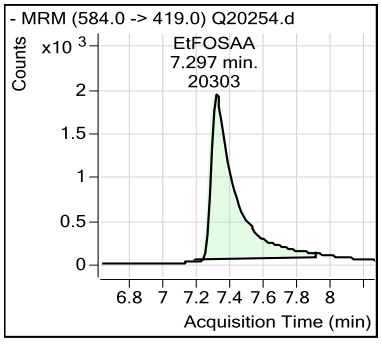
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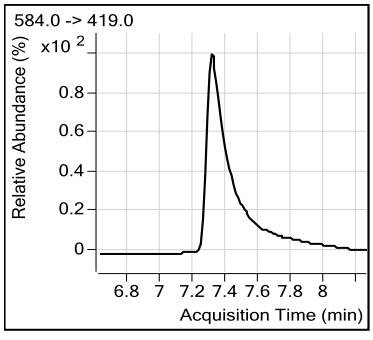


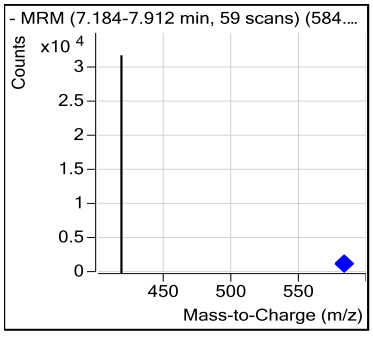




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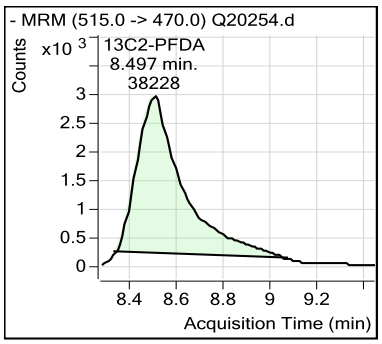


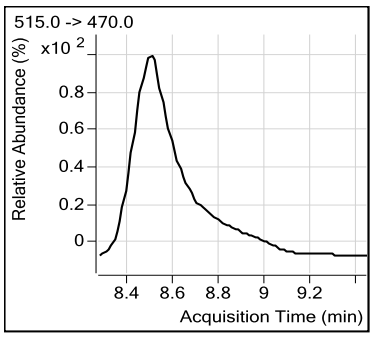


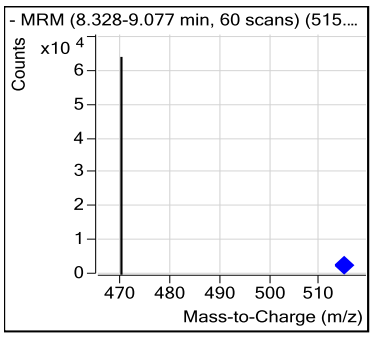


Perfluorinated Compounds by LC/MS/MS.

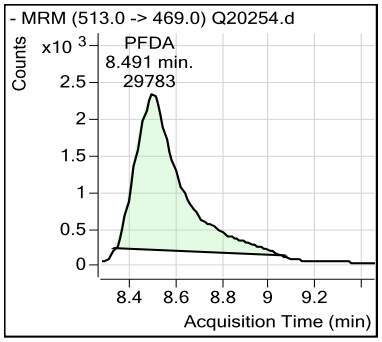
13C2-PFDA

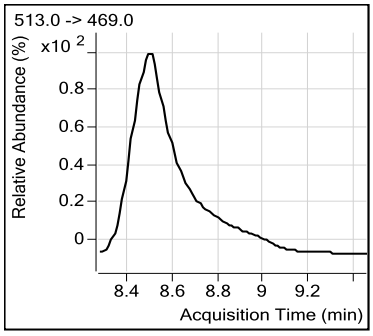


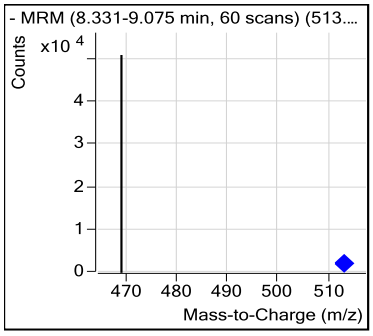




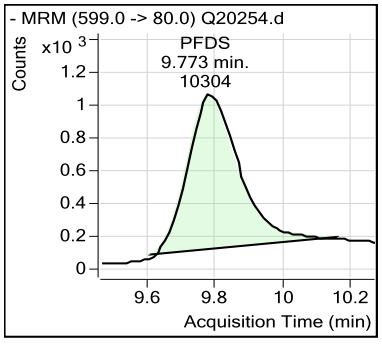
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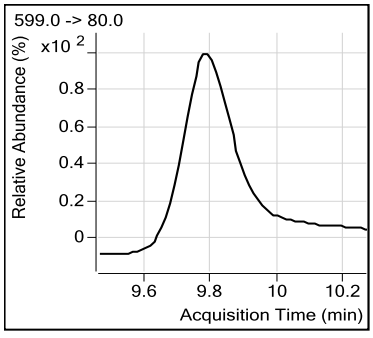


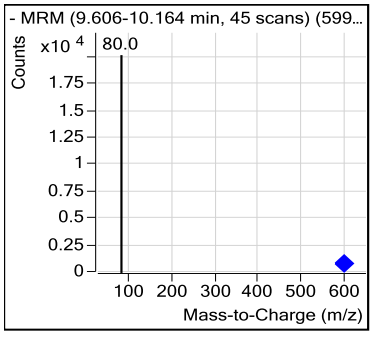




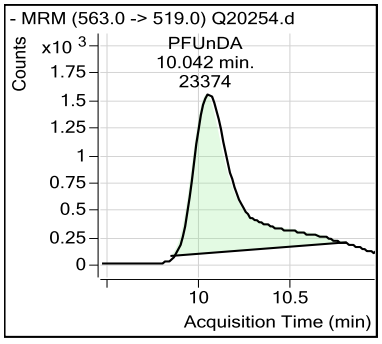
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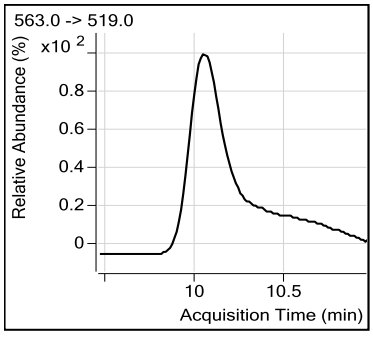


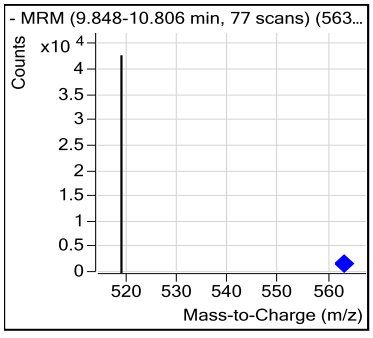




PFUnDA



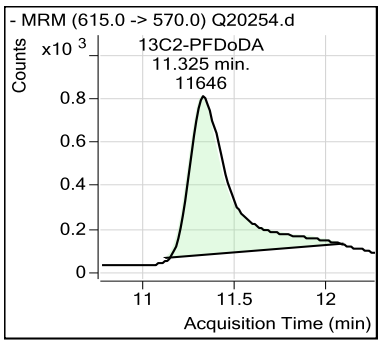


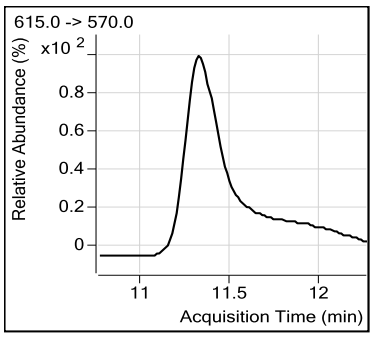


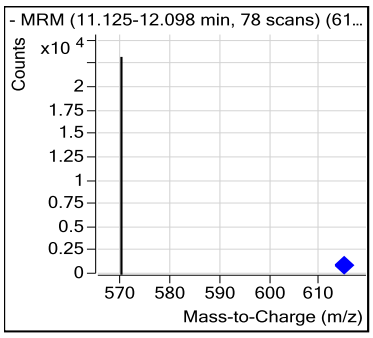
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

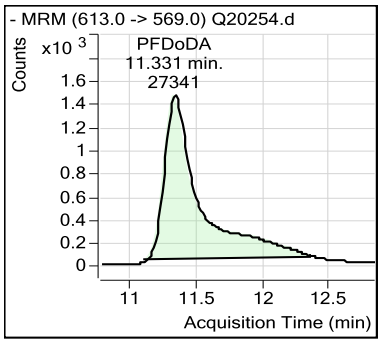
13C2-PFDoDA

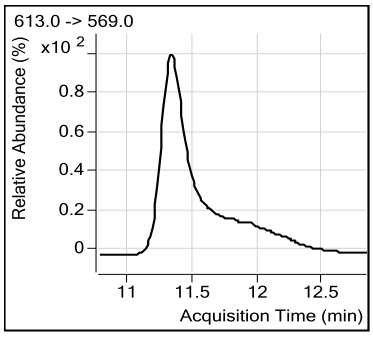


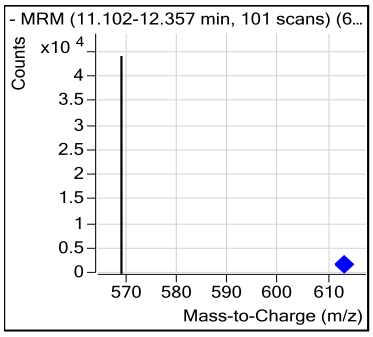




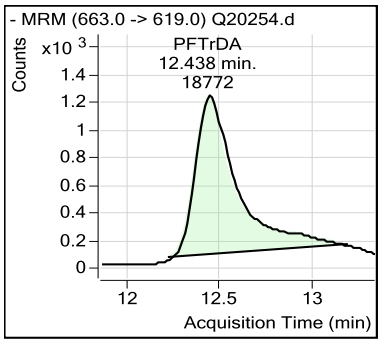
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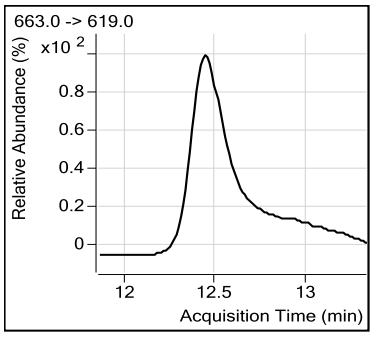


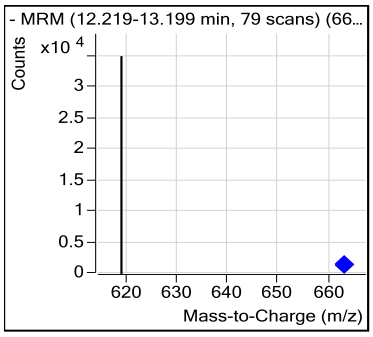




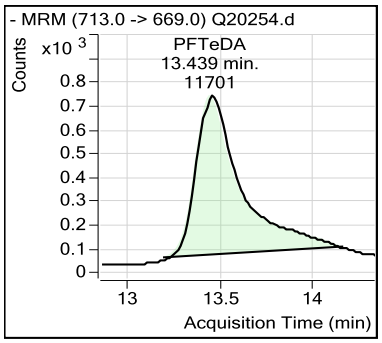
PFTrDA

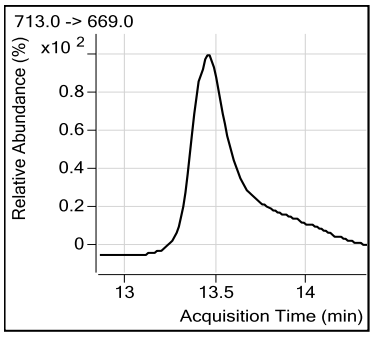


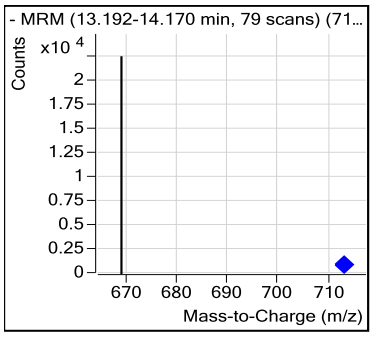




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20255.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 16:35
Sample Name	:	IC607-50
Vial	:	Vial 8
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

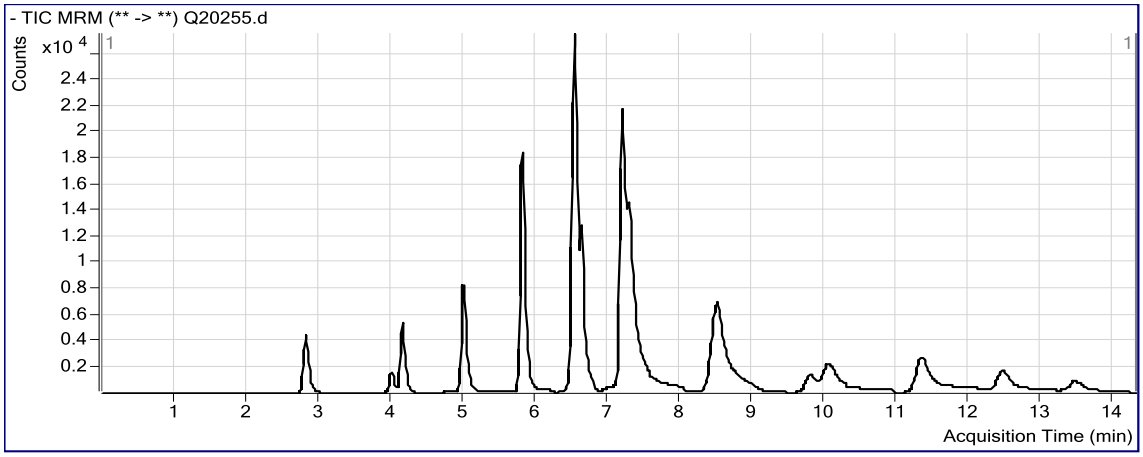
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	32739	20.000	µg/L		0.000
d3-MeFOSAA	7.173	573.0 -> 419.0	12567	40.000	µg/L		-0.013
13C4-PFOS	7.189	503.0 -> 80.0	19748	20.000	µg/L		0.000
13C2-PFDoDA	11.325	615.0 -> 570.0	12366	20.000	µg/L		0.013
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	20866	49.52	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 247.60%				
d5-EtFOSAA	7.296	589.0 -> 419.0	26020	99.84	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 249.60%				
13C2-PFDA	8.497	515.0 -> 470.0	50519	50.19	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 250.95%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	24221	48.891	µg/L		100
PFPeA	3.999	263.0 -> 219.0	7450	49.084	µg/L		100
PFBS	4.141	299.0 -> 80.0	16570	49.734	µg/L		94
PFHxA	4.983	313.0 -> 269.0	20725	49.295	µg/L		100
PFHxS	5.793	399.0 -> 80.0	28756	49.450	µg/L		86
PFHpA	5.810	363.0 -> 319.0	38843	49.723	µg/L	#	72
PFHpS	6.496	449.0 -> 80.0	31408	49.654	µg/L		100
PFOA	6.539	413.0 -> 369.0	75807	49.758	µg/L		83
PFOSA	6.637	498.0 -> 78.0	34041	49.752	µg/L		100
MeFOSAA	7.188	570.0 -> 419.0	30201	99.330	µg/L		100
PFOS	7.191	499.0 -> 80.0	50187	49.212	µg/L		88
PFNA	7.281	463.0 -> 419.0	37235	50.197	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	26891	99.240	µg/L		100
PFDA	8.504	513.0 -> 469.0	39547	50.199	µg/L		100
PFDS	9.786	599.0 -> 80.0	13650	50.071	µg/L		100
PFUnDA	10.042	563.0 -> 519.0	30993	50.009	µg/L		100
PFDoDA	11.331	613.0 -> 569.0	36095	49.937	µg/L		100
PFTrDA	12.438	663.0 -> 619.0	25005	50.079	µg/L		100
PFTeDA	13.439	713.0 -> 669.0	15516	50.145	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

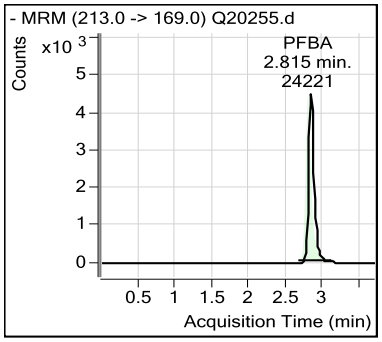
SGS ACCUTEST FA32826

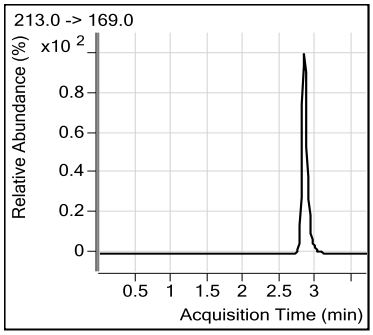
Perfluorinated Compounds by LC/MS/MS.

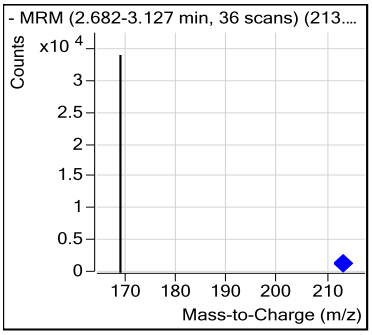
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 16:35
Sample Name	:	IC607-50
Vial	:	Vial 8
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



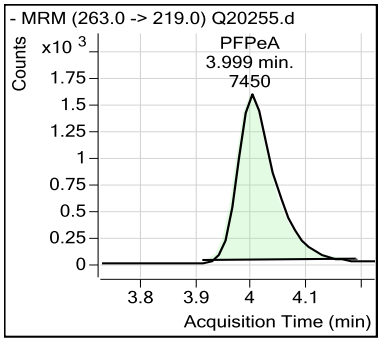
PFBA

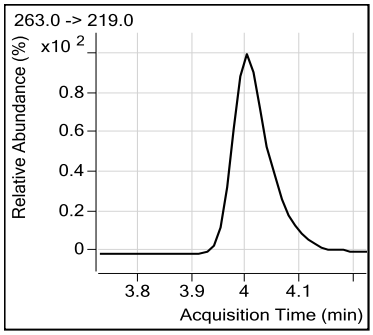


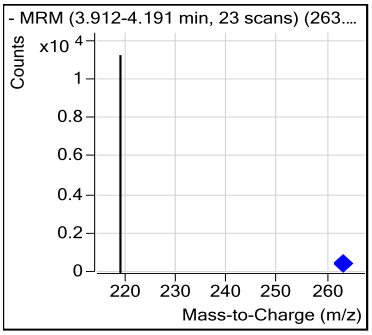




PFPeA

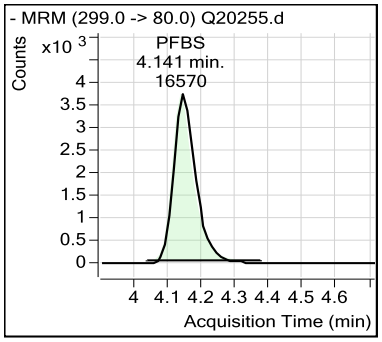


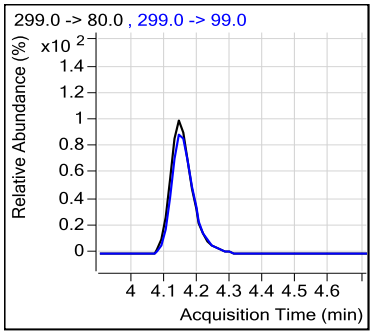


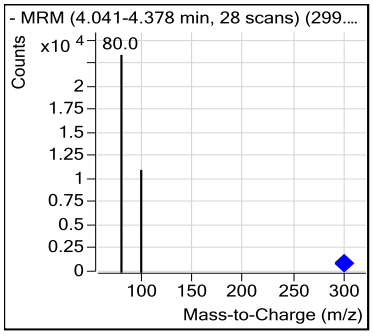


Perfluorinated Compounds by LC/MS/MS.

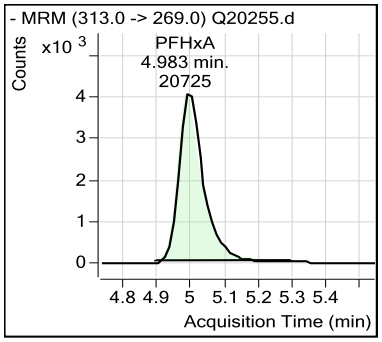
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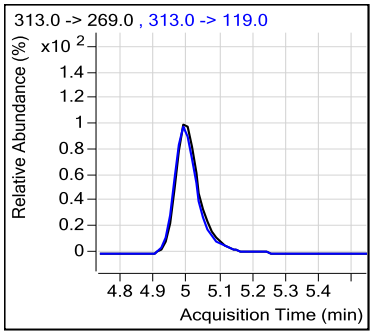


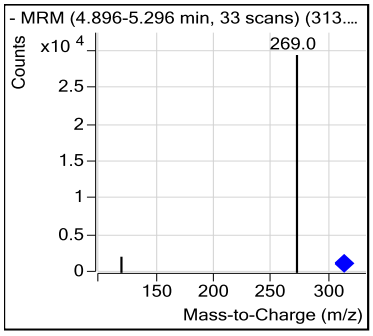




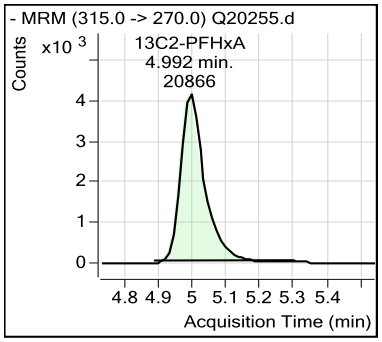
PFHxA

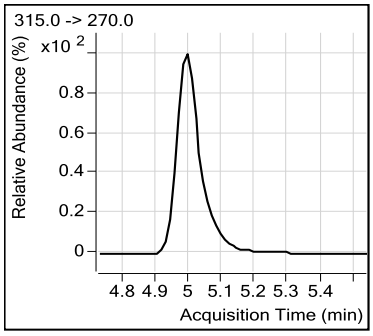


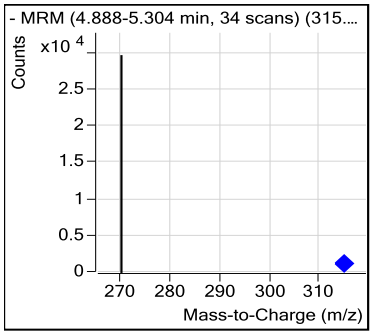




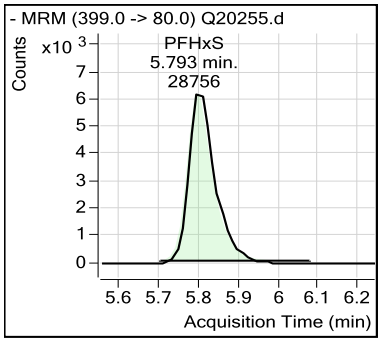
13C2-PFHxA

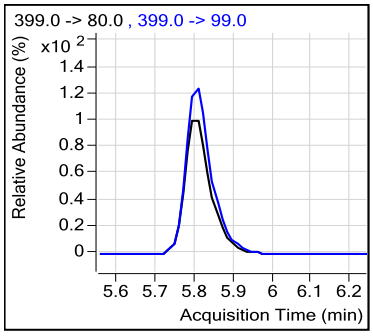


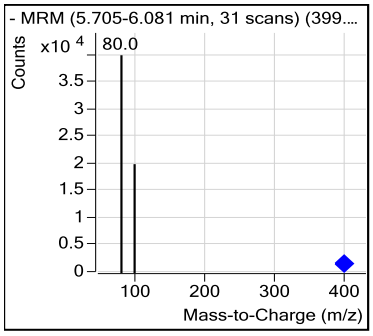




PFHxS



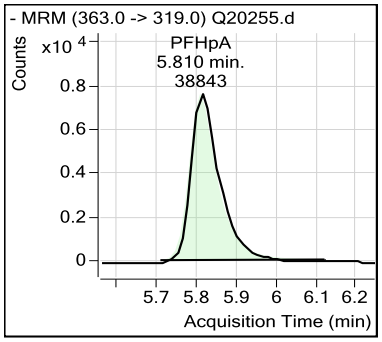


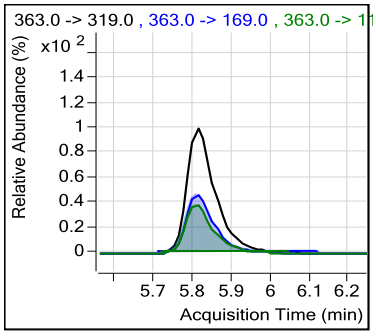


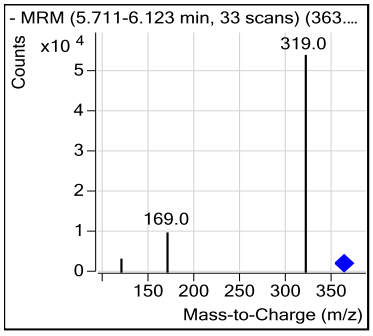
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

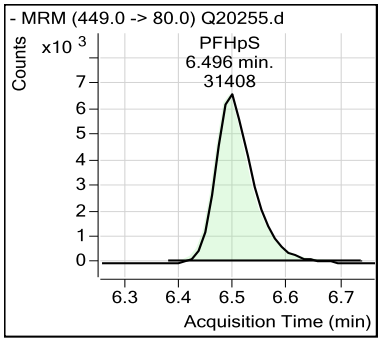
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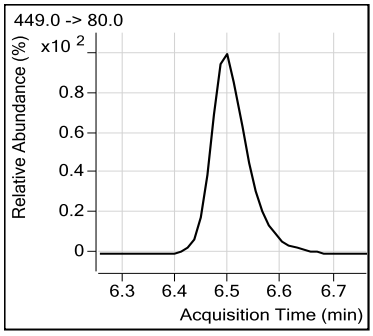


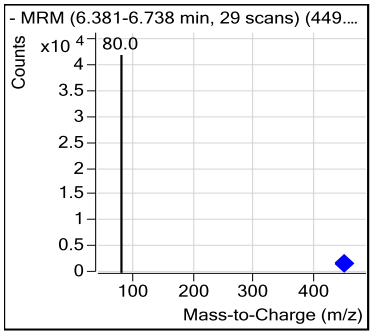




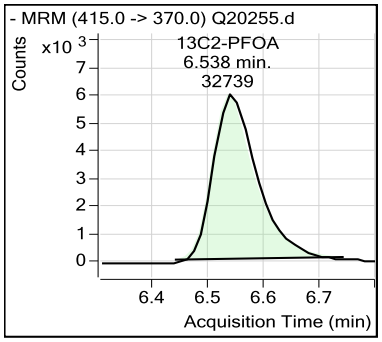
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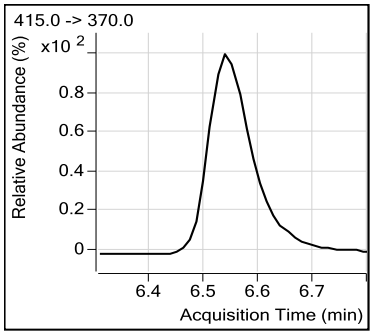


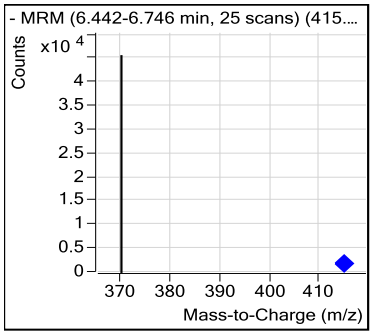




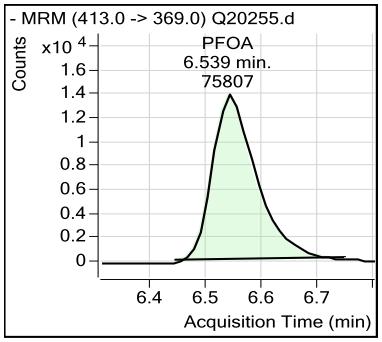
13C2-PFOA

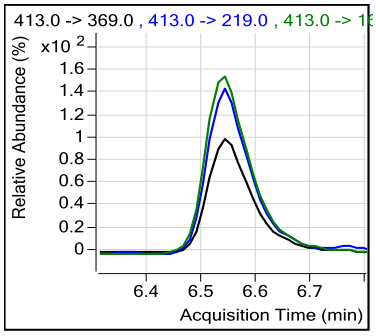


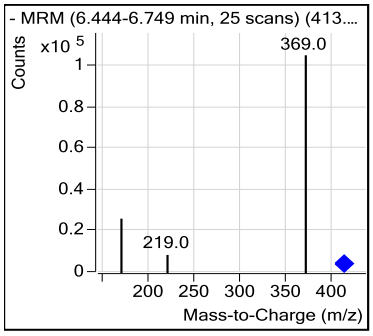




PFOA





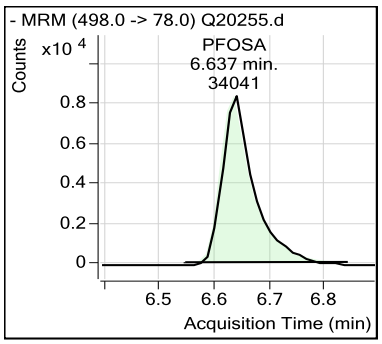


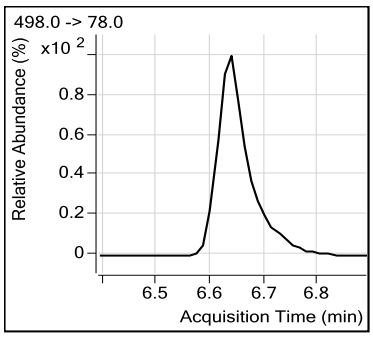
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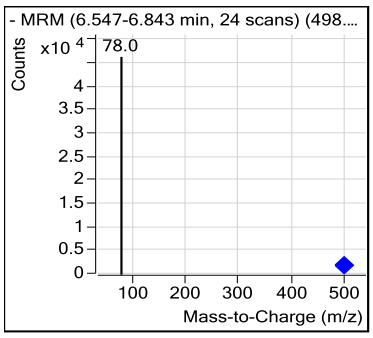
7

Perfluorinated Compounds by LC/MS/MS.

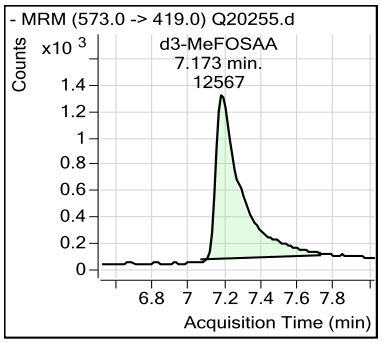
PFOSA

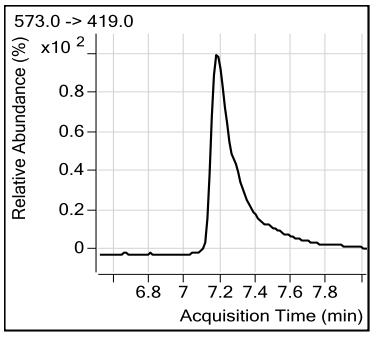


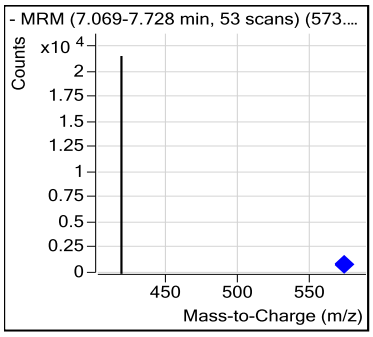




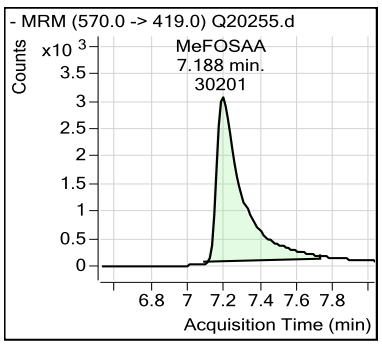
d3-MeFOSAA

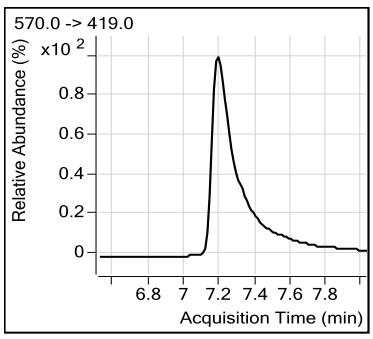


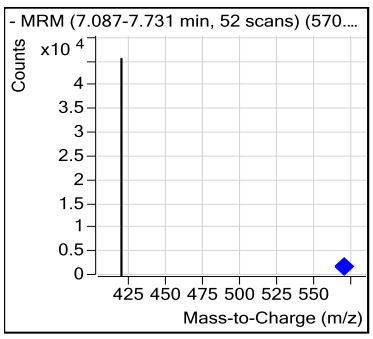




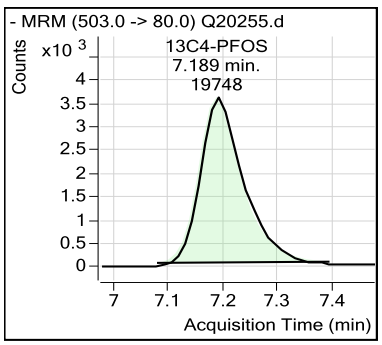
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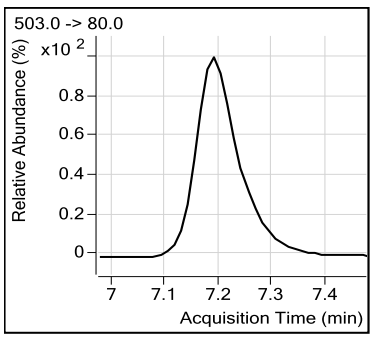


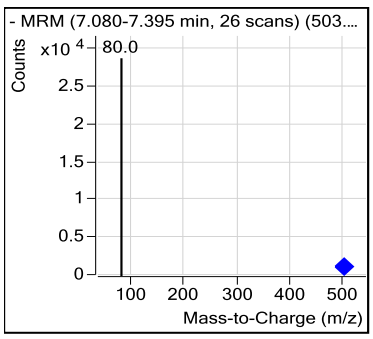




13C4-PFOS

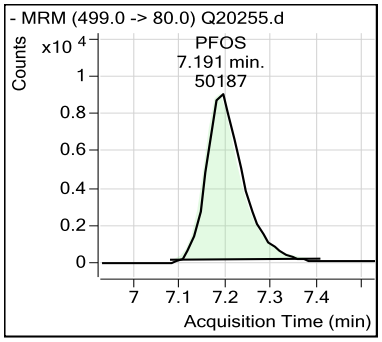


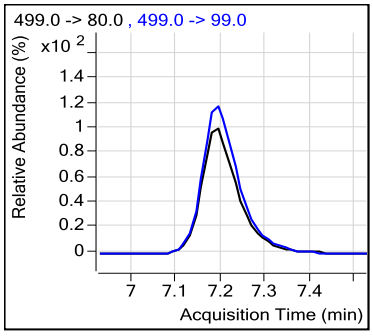


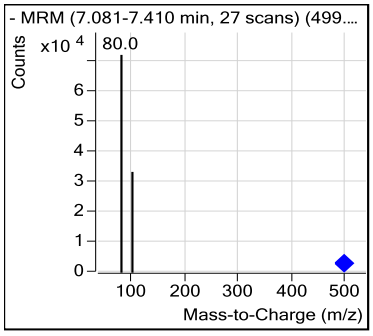


Perfluorinated Compounds by LC/MS/MS.

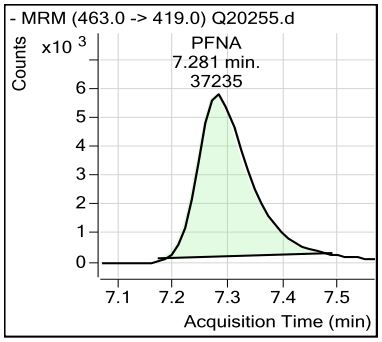
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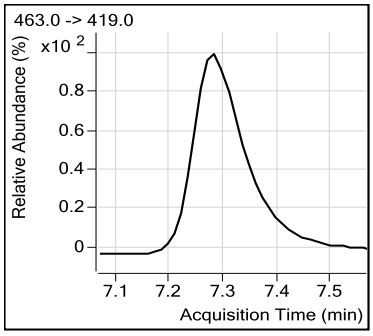


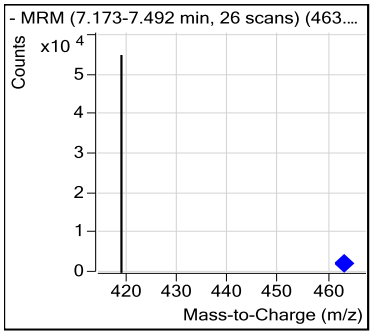




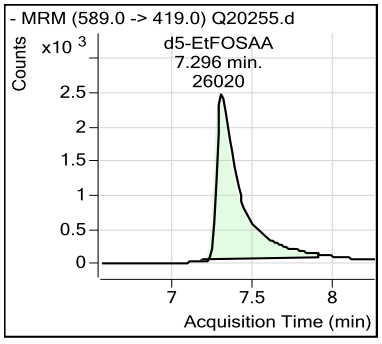
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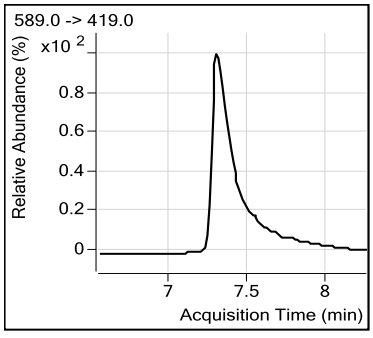


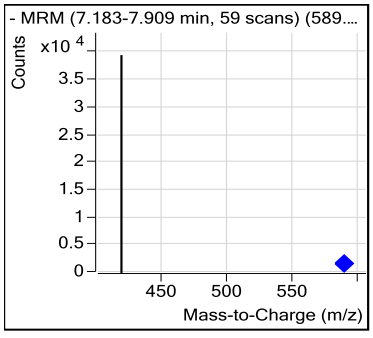




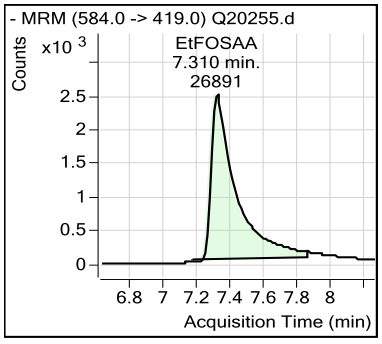
d5-EtFOSAA

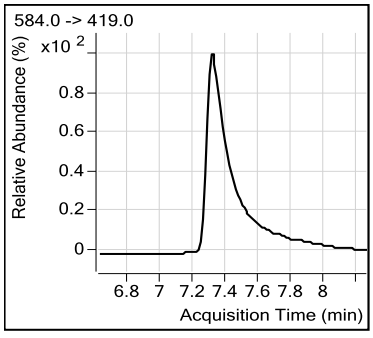


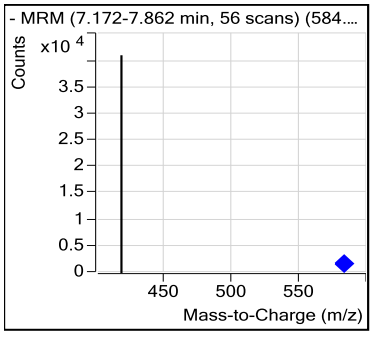




EtFOSAA



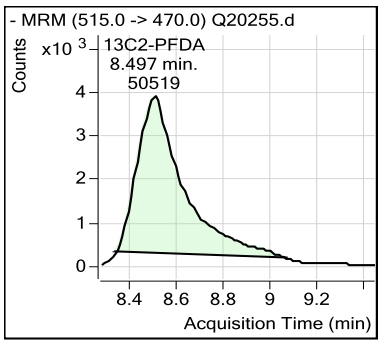


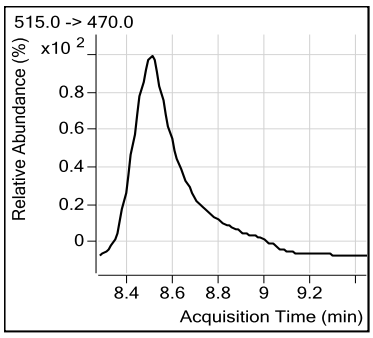


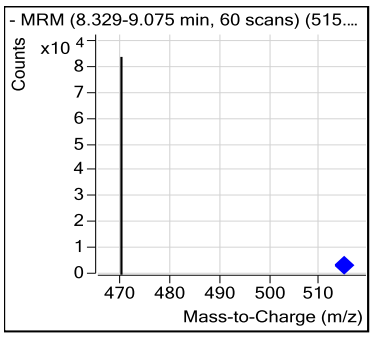
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

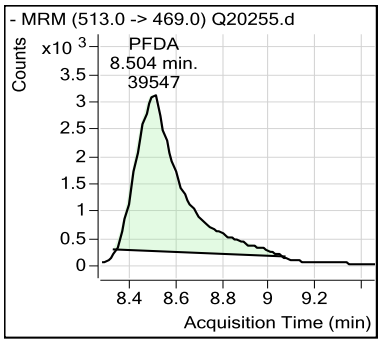
13C2-PFDA

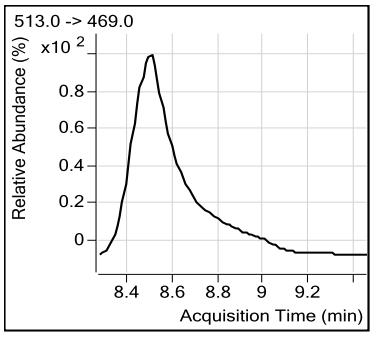


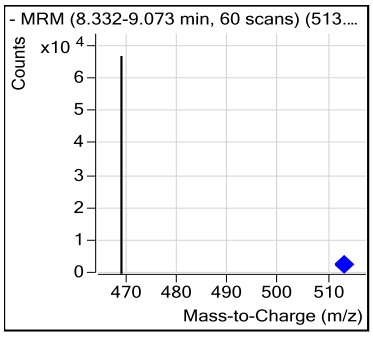




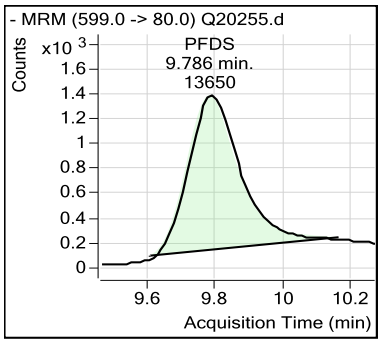
PFDA

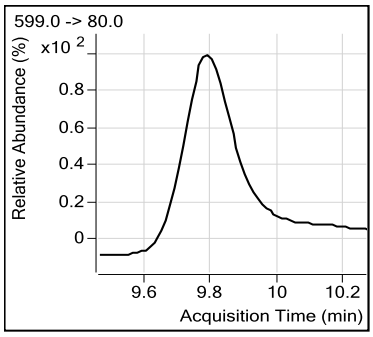


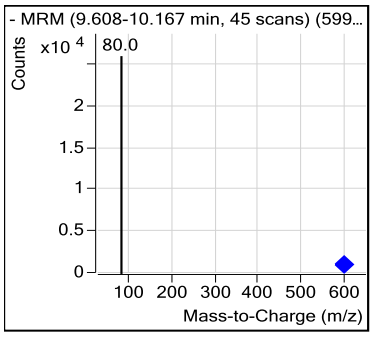




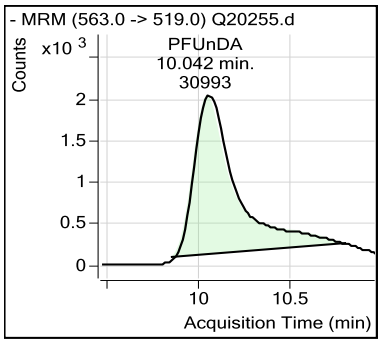
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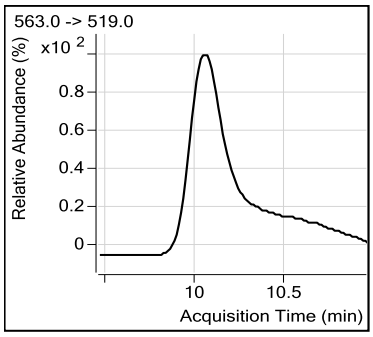


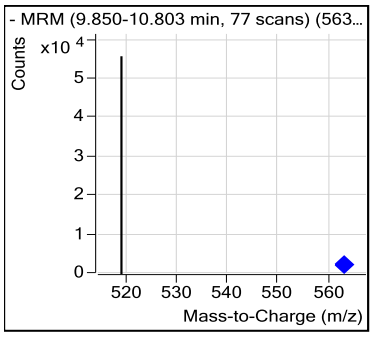




PFUnDA



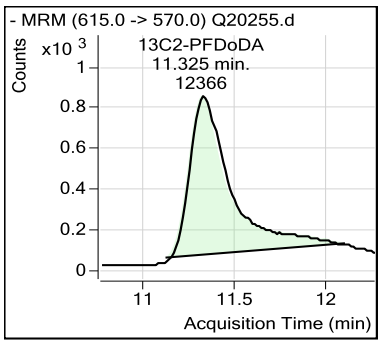


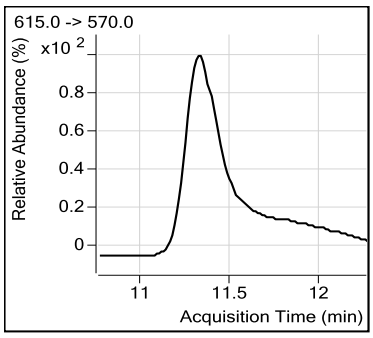


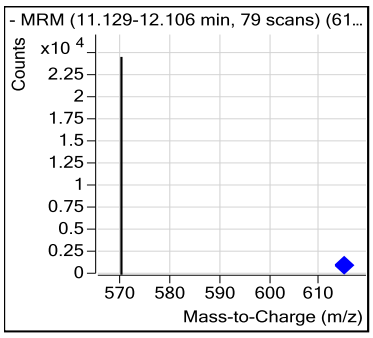
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

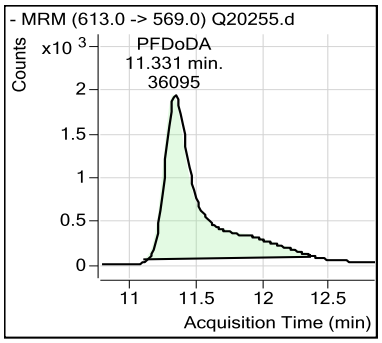
13C2-PFDoDA

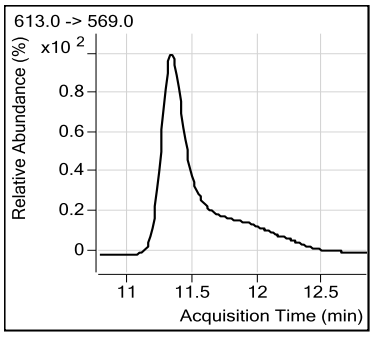


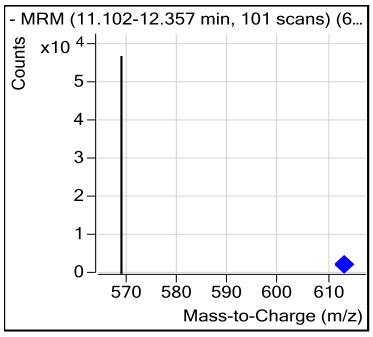




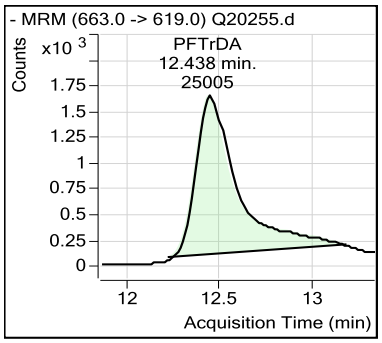
PFDoDA

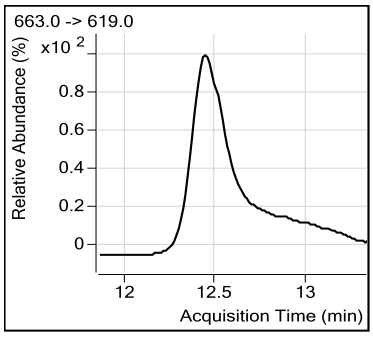


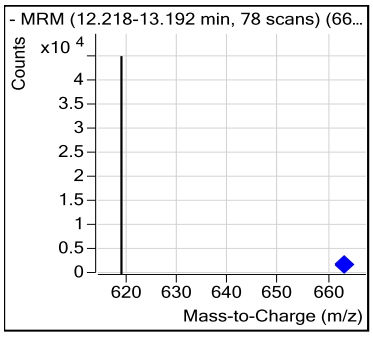




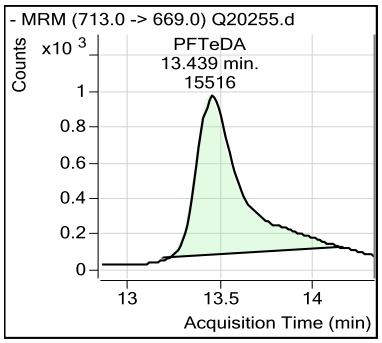
PFTrDA

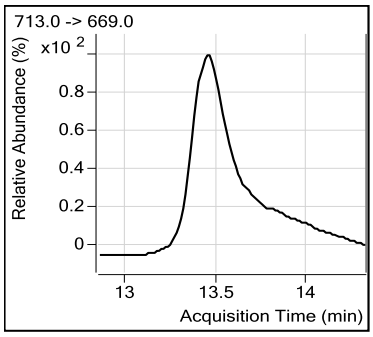


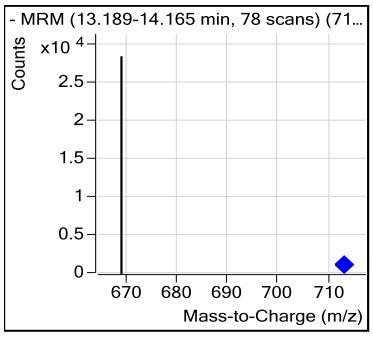




PFTeDA







SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20256.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 16:56
Sample Name	:	ICV607-20
Vial	:	Vial 9
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

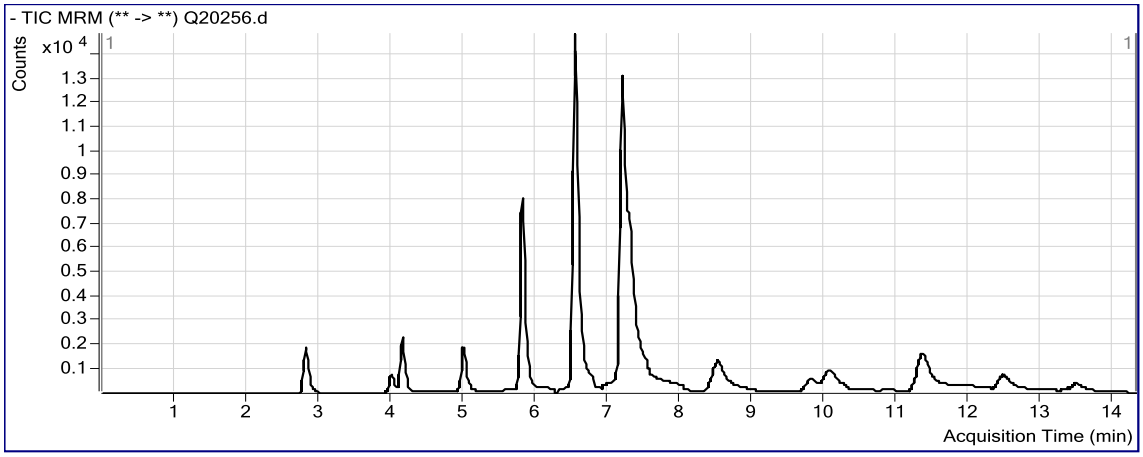
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	35026	20.000	µg/L		0.000
d3-MeFOSAA	7.173	573.0 -> 419.0	12426	40.000	µg/L		-0.013
13C4-PFOS	7.189	503.0 -> 80.0	21060	20.000	µg/L		0.000
13C2-PFDoDA	11.337	615.0 -> 570.0	12044	20.000	µg/L		0.025
System Monitoring Compounds							
d5-EtFOSAA	7.296	589.0 -> 419.0	0	0.00	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	10044	18.952	µg/L		100
PFPeA	3.999	263.0 -> 219.0	3115	19.182	µg/L		100
PFBS	4.141	299.0 -> 80.0	6904	19.431	µg/L		94
PFHxA	4.996	313.0 -> 269.0	8739	19.430	µg/L		99
PFHxS	5.805	399.0 -> 80.0	12231	19.722	µg/L		86
PFHpA	5.810	363.0 -> 319.0	16323	19.531	µg/L	#	72
PFOA	6.539	413.0 -> 369.0	32656	20.035	µg/L		83
MeFOSAA	7.188	570.0 -> 419.0	18281	63.168	µg/L		100
PFOS	7.191	499.0 -> 80.0	21208	19.500	µg/L		89
PFNA	7.281	463.0 -> 419.0	15406	19.413	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	16438	63.732	µg/L		100
PFDA	8.504	513.0 -> 469.0	16692	19.804	µg/L		100
PFDS	9.786	599.0 -> 80.0	5577	21.004	µg/L		100
PFUnDA	10.055	563.0 -> 519.0	12507	20.720	µg/L		100
PFDoDA	11.331	613.0 -> 569.0	14988	21.290	µg/L		100
PFTrDA	12.451	663.0 -> 619.0	10425	21.438	µg/L		100
PFTeDA	13.452	713.0 -> 669.0	6768	22.458	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

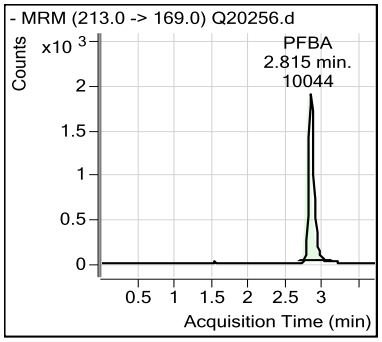
SGS ACCUTEST FA32826

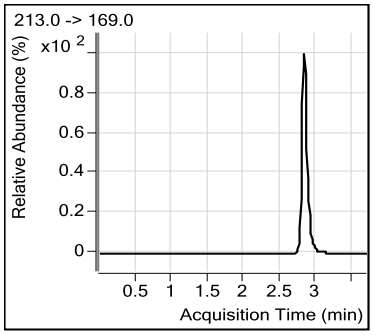
Perfluorinated Compounds by LC/MS/MS.

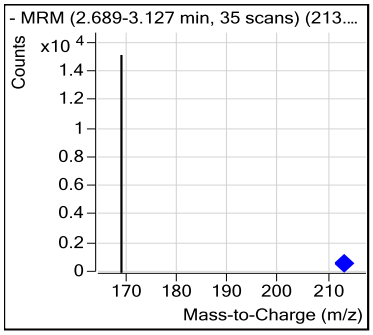
Data File	:	Q20256.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-12 16:56
Sample Name	:	ICV607-20
Vial	:	Vial 9
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



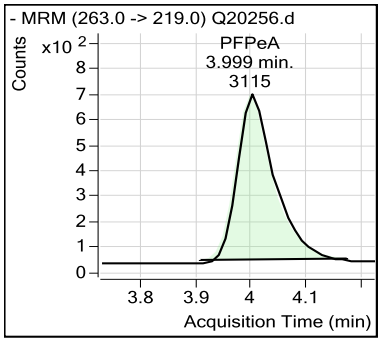
PFBA

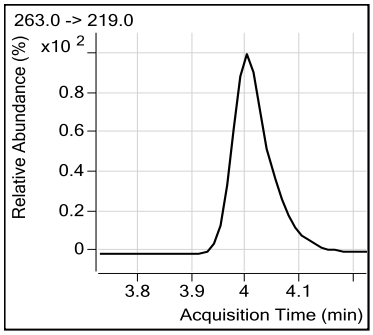


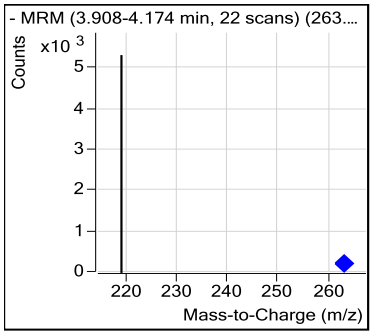




PFPeA



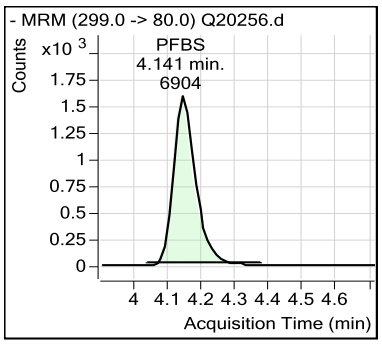


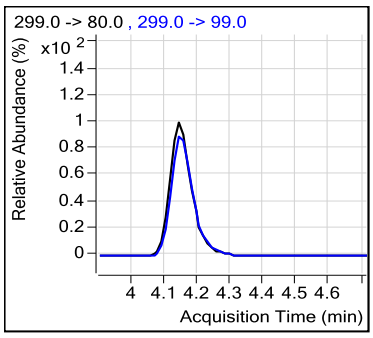


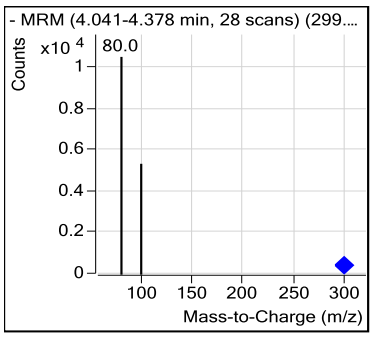
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

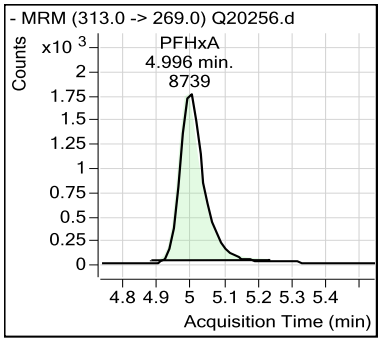
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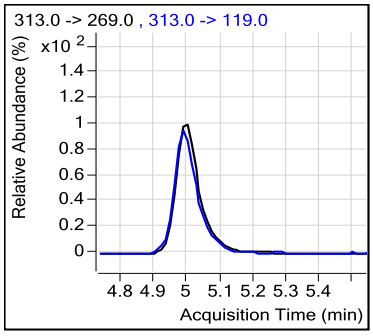


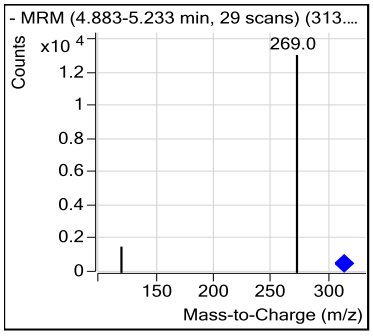




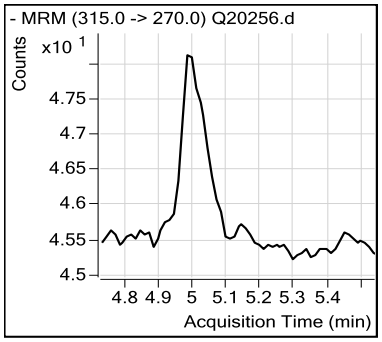
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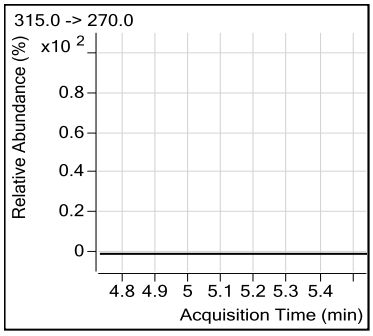


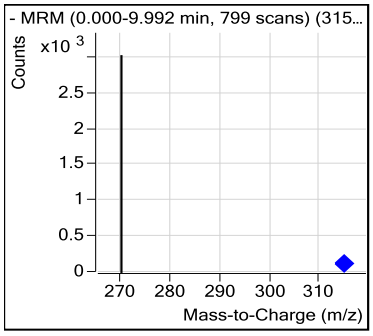




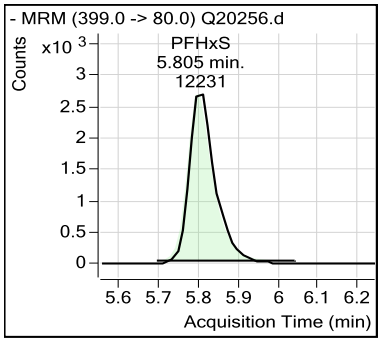
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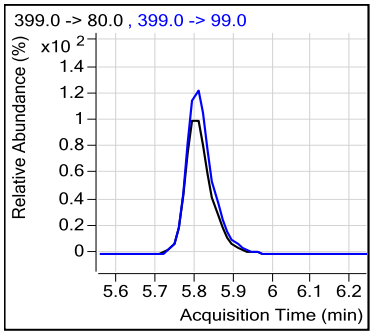


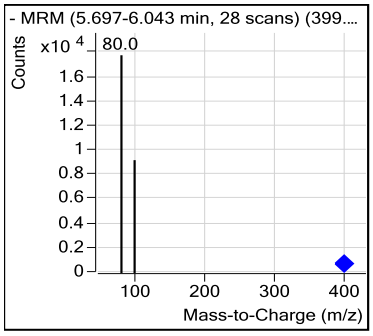




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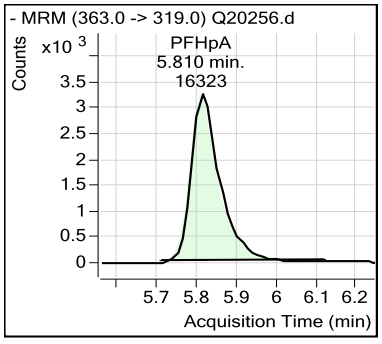


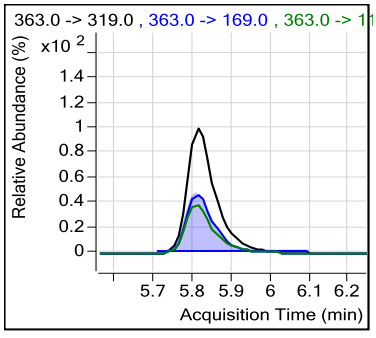


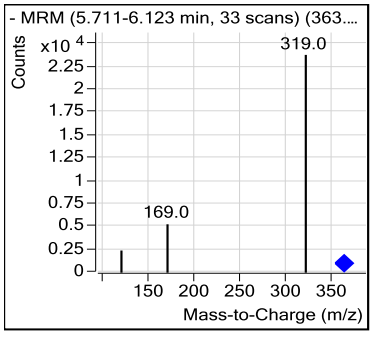


Perfluorinated Compounds by LC/MS/MS.

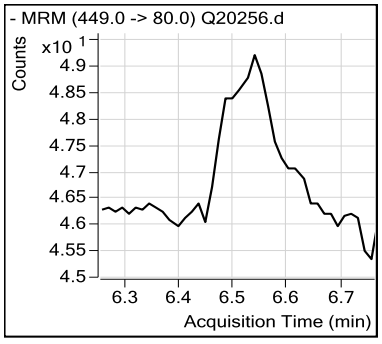
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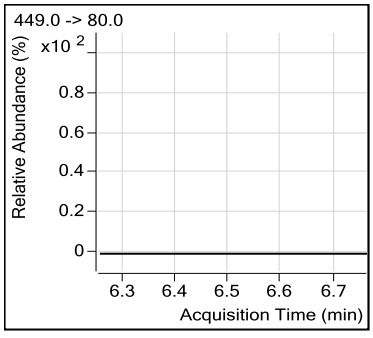


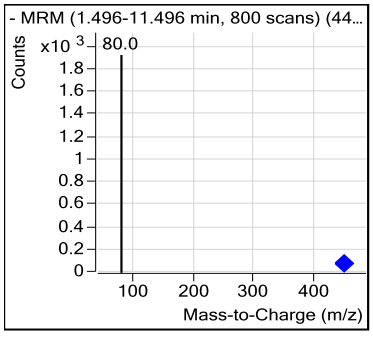




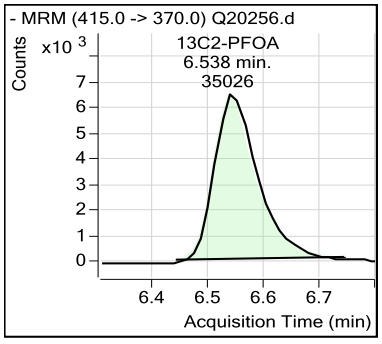
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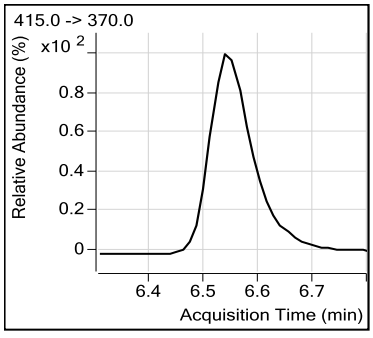


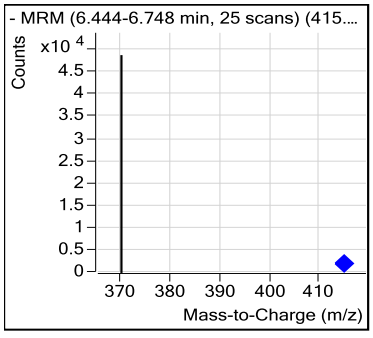




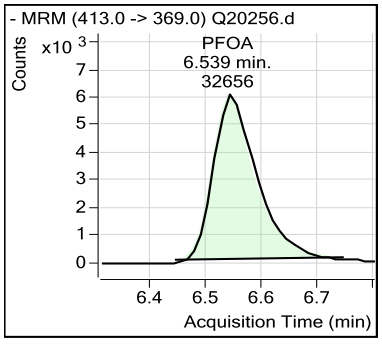
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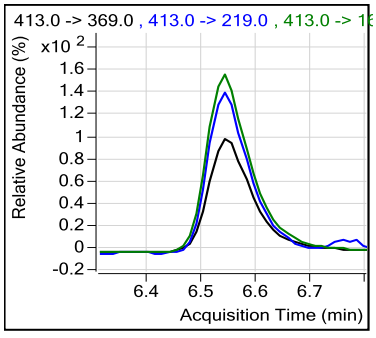


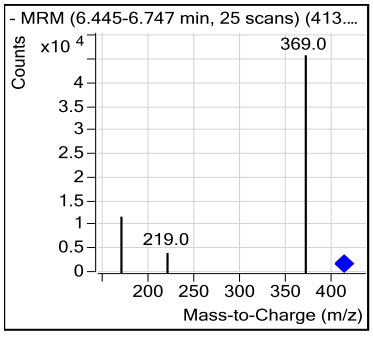




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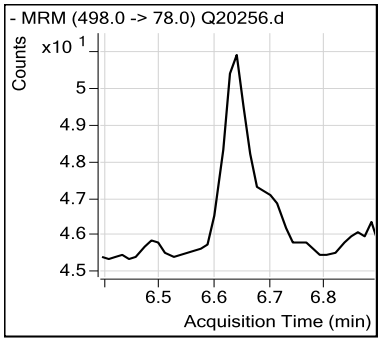


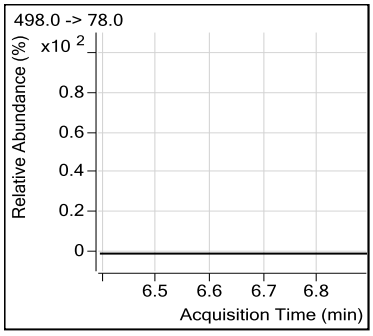


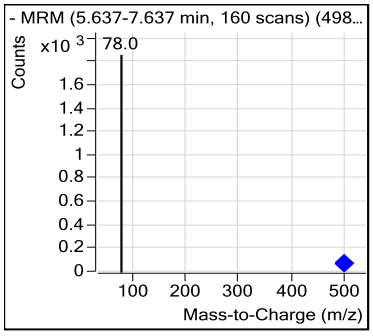


Perfluorinated Compounds by LC/MS/MS.

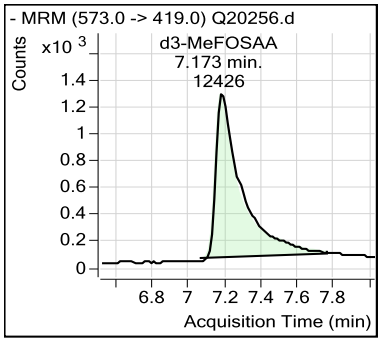
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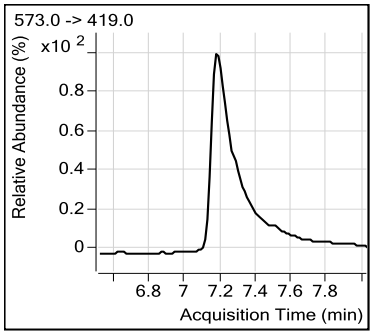


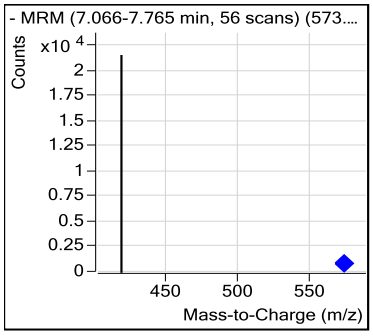




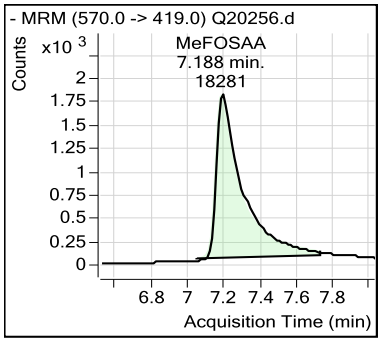
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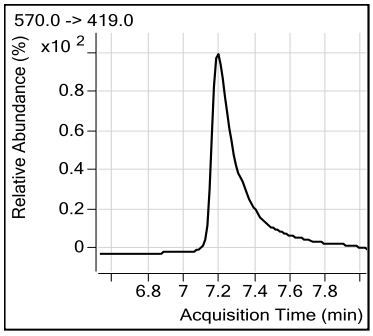


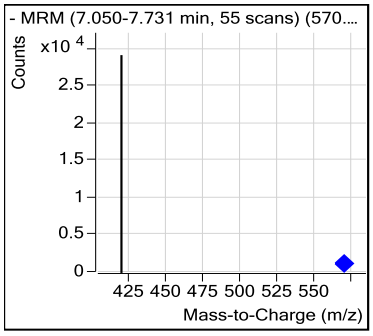




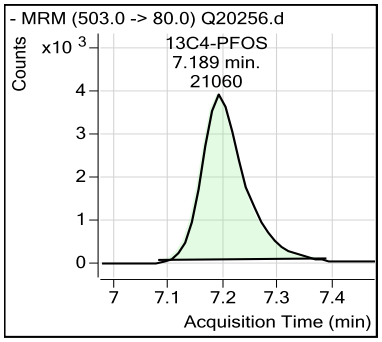
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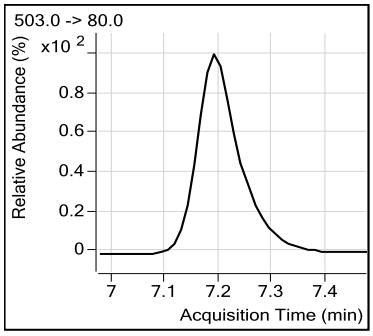


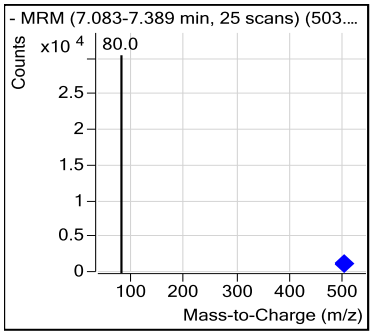




13C4-PFOS



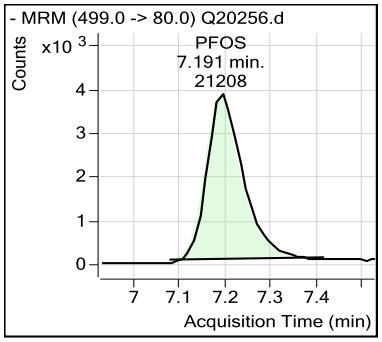


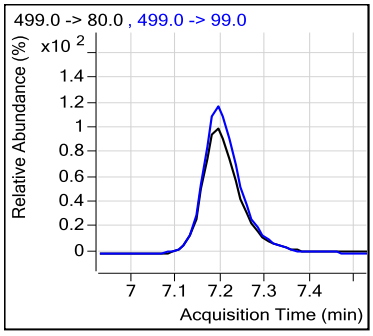


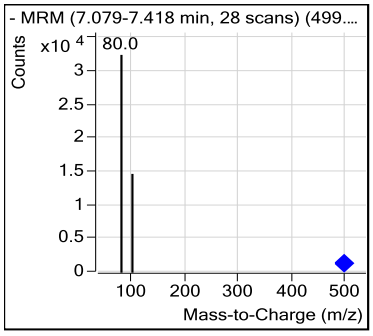
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

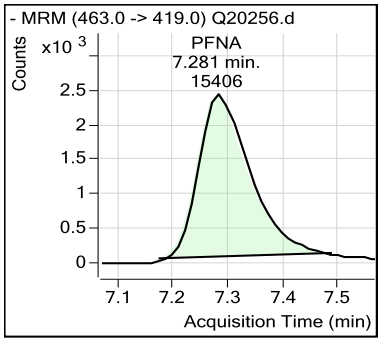
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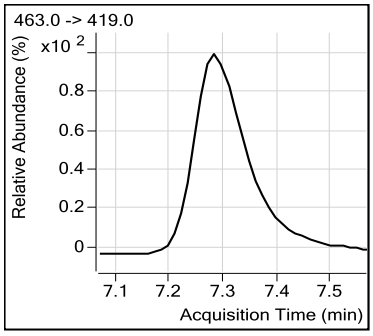


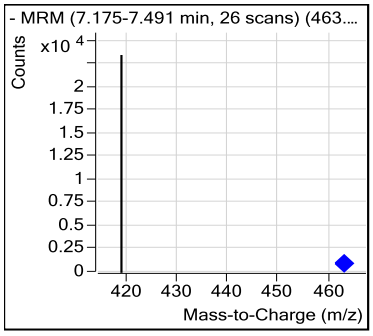




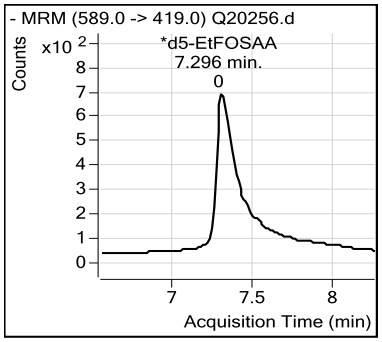
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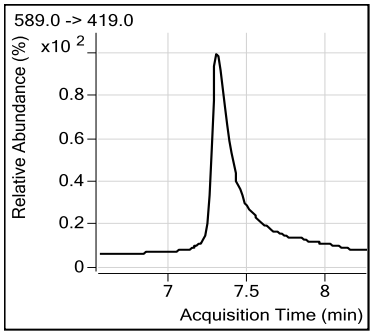


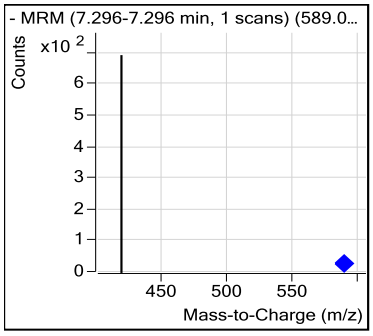




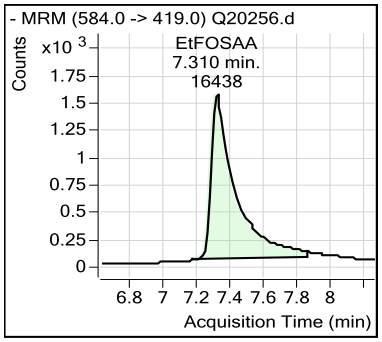
d5-EtFOSAA

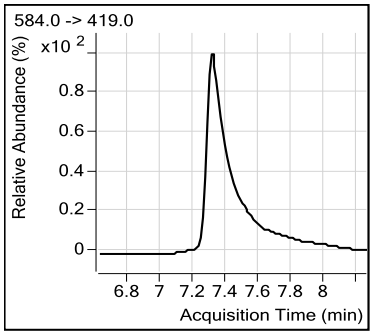


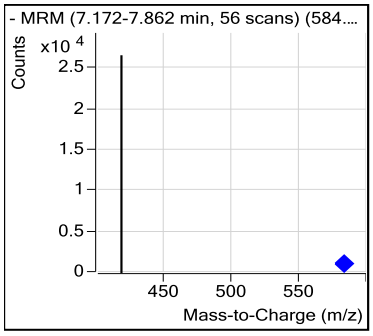




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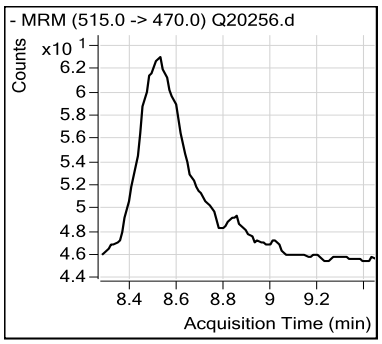


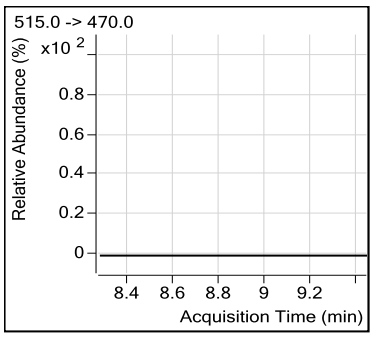


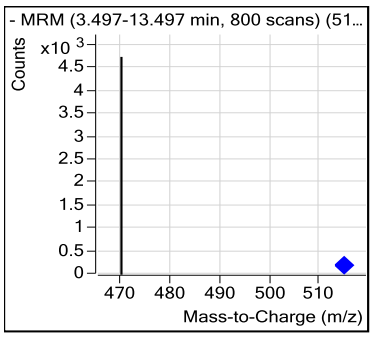


Perfluorinated Compounds by LC/MS/MS.

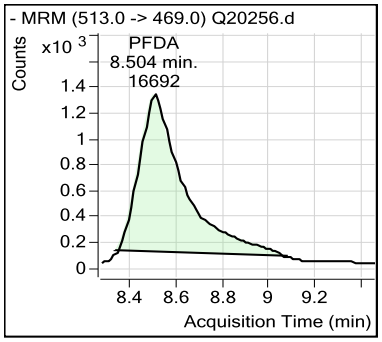
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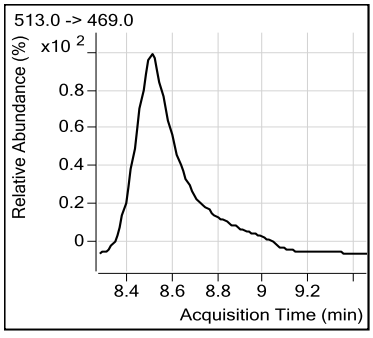


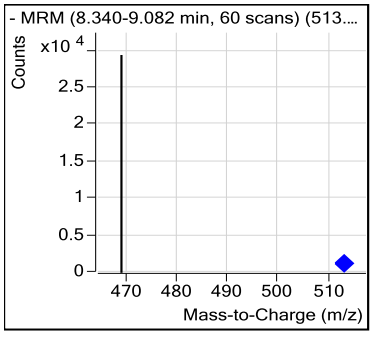




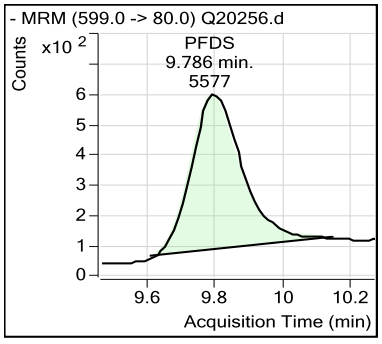
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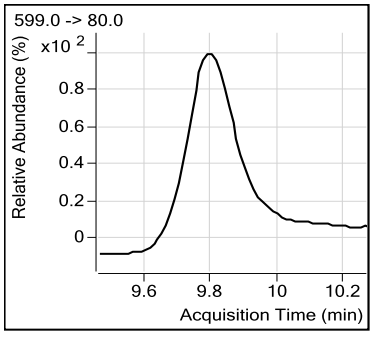


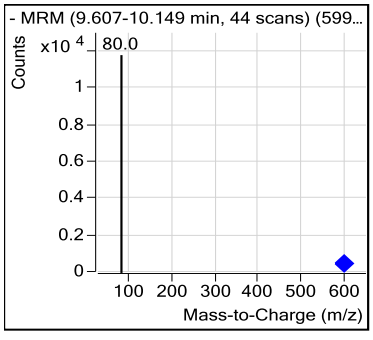




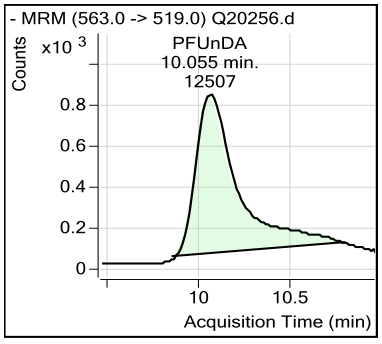
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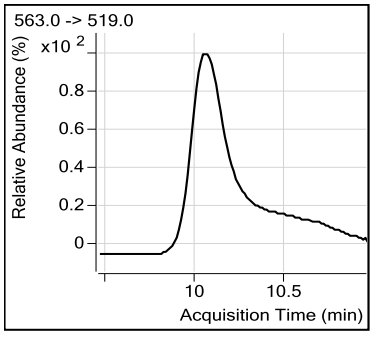


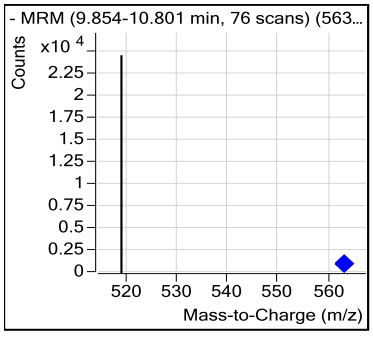




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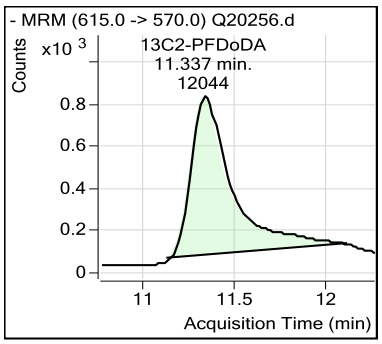


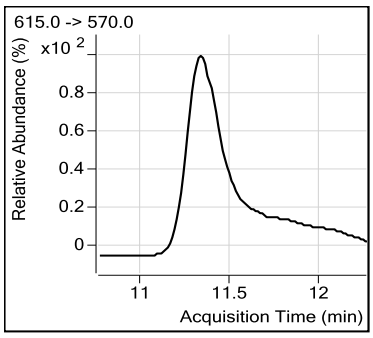


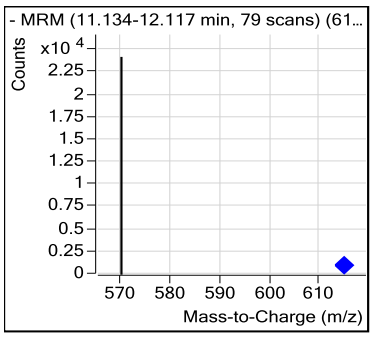


Perfluorinated Compounds by LC/MS/MS.

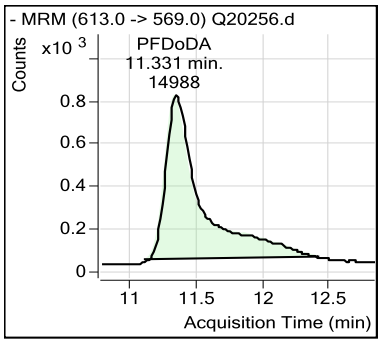
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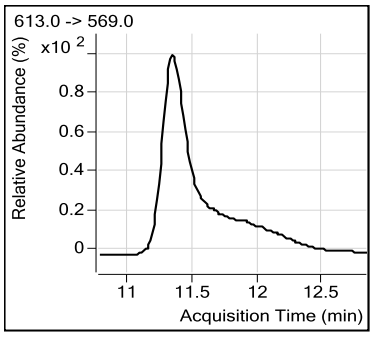


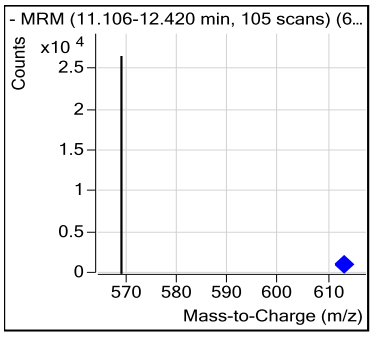




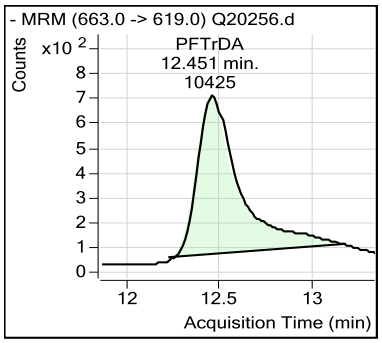
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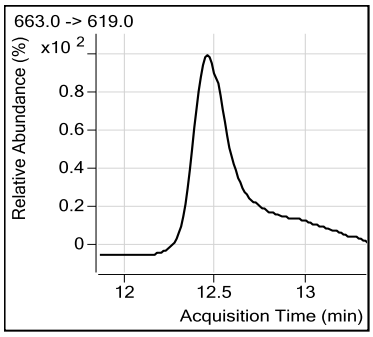


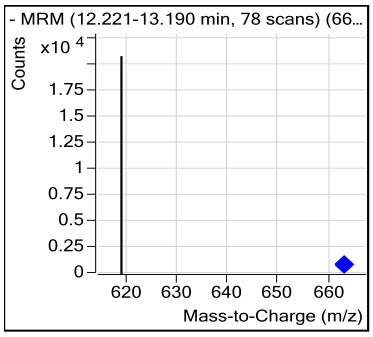




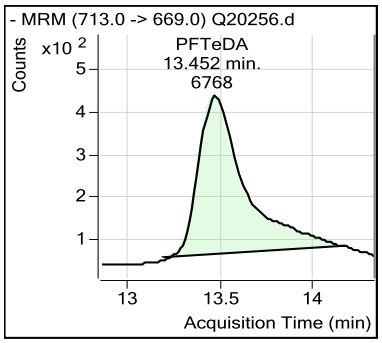
PFTrDA

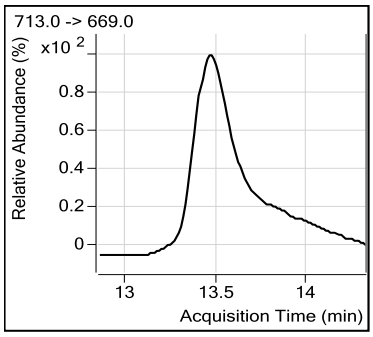


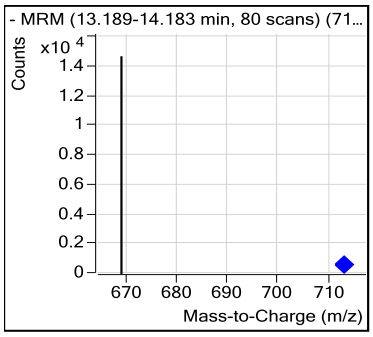




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20277.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 00:23
Sample Name	:	CC607-20
Vial	:	Vial 92
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

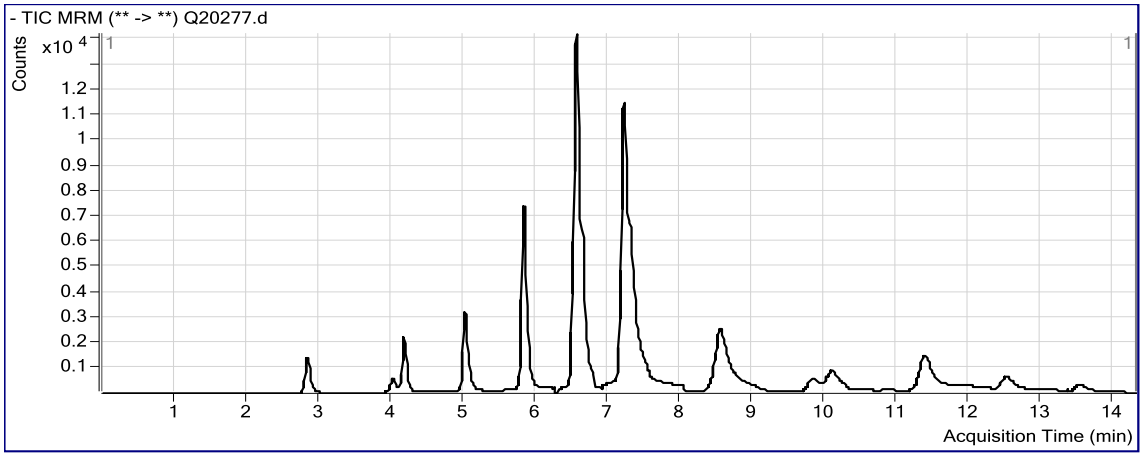
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.563	415.0 -> 370.0	31278	20.000	µg/L		0.026
d3-MeFOSAA	7.186	573.0 -> 419.0	12579	40.000	µg/L		0.000
13C4-PFOS	7.214	503.0 -> 80.0	19809	20.000	µg/L		0.025
13C2-PFDoDA	11.362	615.0 -> 570.0	11075	20.000	µg/L		0.050
System Monitoring Compounds							
13C2-PFHxA	5.017	315.0 -> 270.0	7874	19.56	µg/L		0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 97.81%				
d5-EtFOSAA	7.308	589.0 -> 419.0	9229	37.11	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 92.77%				
13C2-PFDA	8.547	515.0 -> 470.0	18960	19.72	µg/L		0.050
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 98.59%				
Target Compounds							**Qvalue**
PFBA	2.840	213.0 -> 169.0	7859	16.606	µg/L		100
PFPeA	4.024	263.0 -> 219.0	2512	17.326	µg/L		100
PFBS	4.166	299.0 -> 80.0	6456	19.319	µg/L		95
PFHxA	5.008	313.0 -> 269.0	7748	19.291	µg/L		99
PFHxS	5.818	399.0 -> 80.0	12084	20.716	µg/L		88
PFHpA	5.835	363.0 -> 319.0	15235	20.414	µg/L	#	71
PFHpS	6.508	449.0 -> 80.0	12750	20.095	µg/L		100
PFOA	6.565	413.0 -> 369.0	29087	19.984	µg/L		82
PFOSA	6.649	498.0 -> 78.0	13322	19.451	µg/L		100
MeFOSAA	7.200	570.0 -> 419.0	9917	33.466	µg/L		100
PFOS	7.216	499.0 -> 80.0	20383	19.926	µg/L		87
PFNA	7.307	463.0 -> 419.0	13661	19.278	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	8643	32.594	µg/L		100
PFDA	8.541	513.0 -> 469.0	14850	19.731	µg/L		100
PFDS	9.823	599.0 -> 80.0	5253	21.516	µg/L		100
PFUnDA	10.092	563.0 -> 519.0	11070	19.943	µg/L		100
PFDoDA	11.369	613.0 -> 569.0	12967	20.031	µg/L		100
PFTrDA	12.489	663.0 -> 619.0	8843	19.775	µg/L		100
PFTeDA	13.514	713.0 -> 669.0	5258	18.973	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

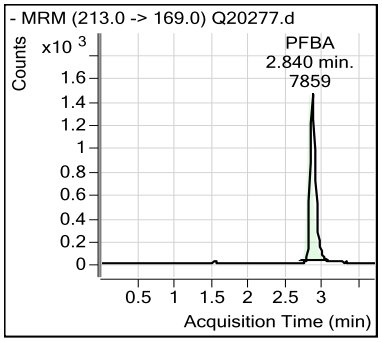
SGS ACCUTEST FA32826

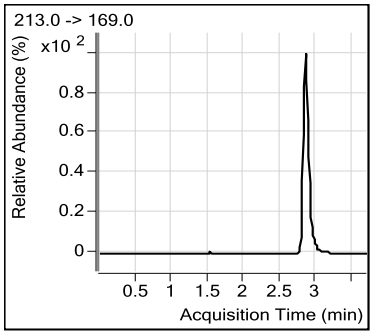
Perfluorinated Compounds by LC/MS/MS.

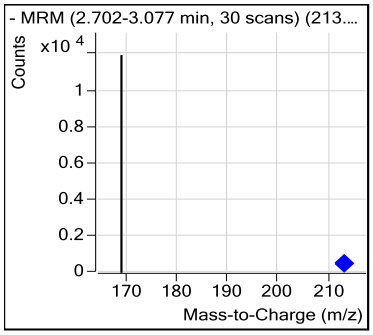
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 00:23
Sample Name	:	CC607-20
Vial	:	Vial 92
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



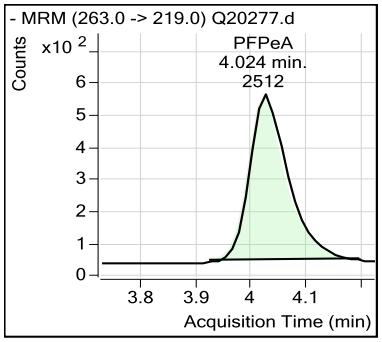
PFBA

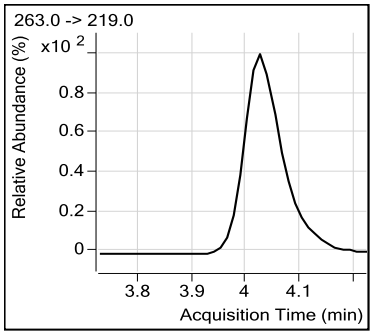


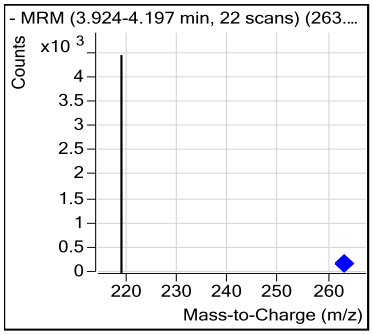




PFPeA

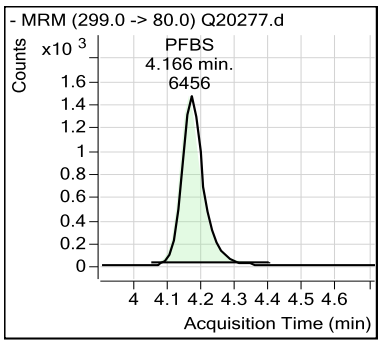


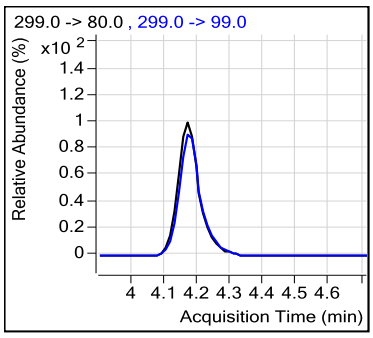


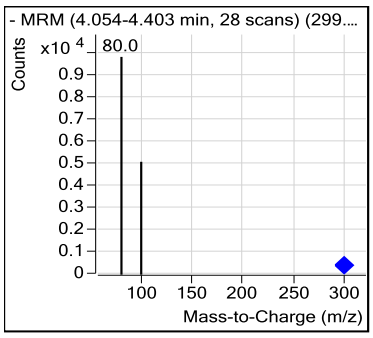


Perfluorinated Compounds by LC/MS/MS.

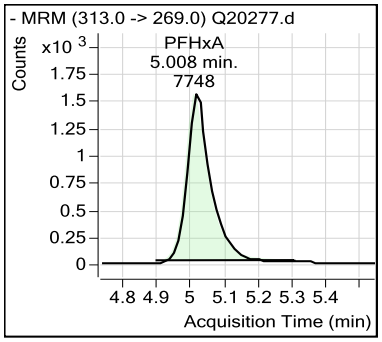
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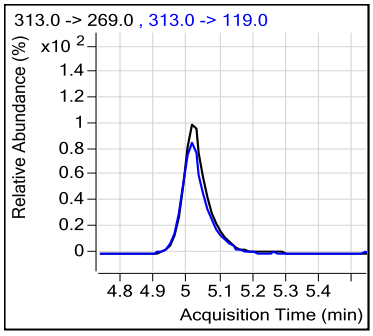


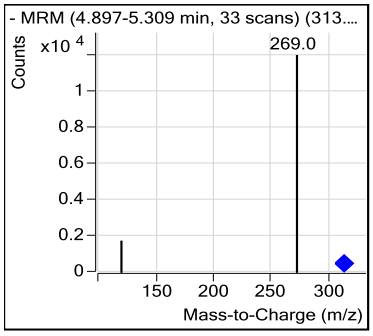




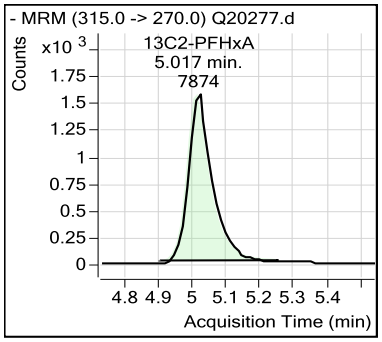
PFHxA

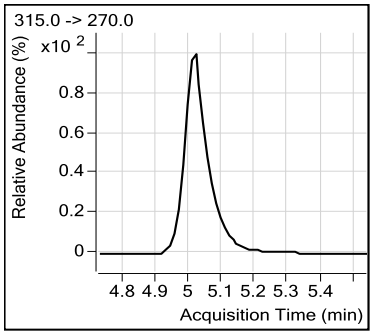


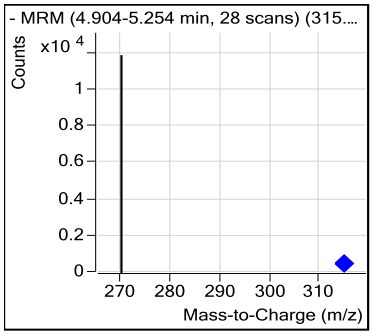




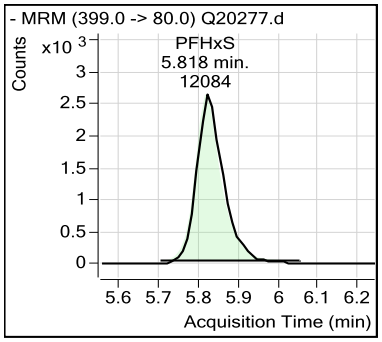
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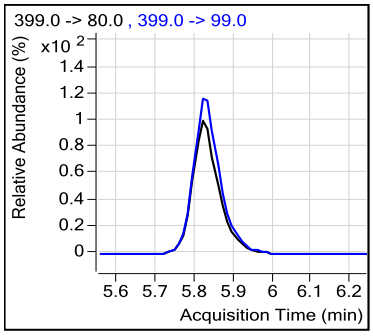


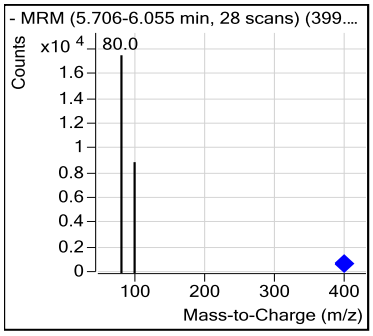




PFHxS





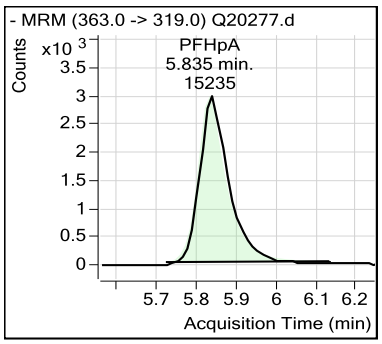


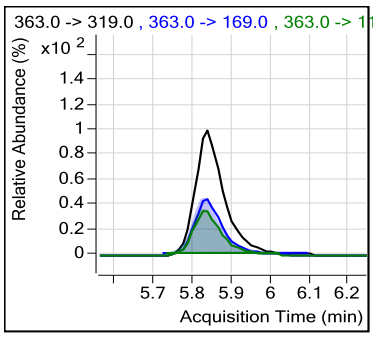
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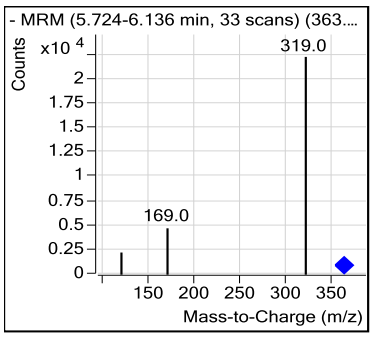
7

Perfluorinated Compounds by LC/MS/MS.

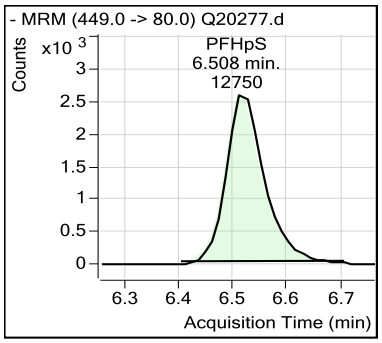
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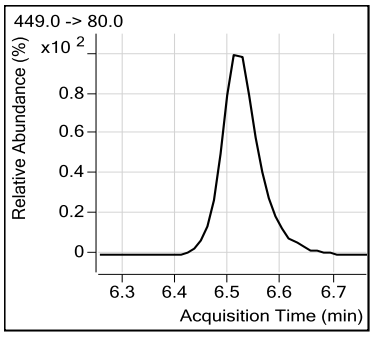


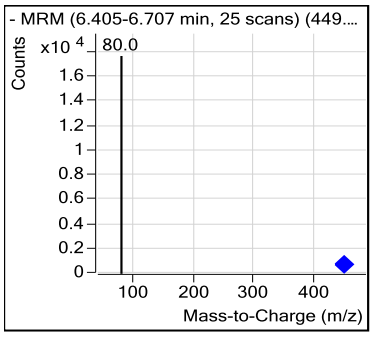




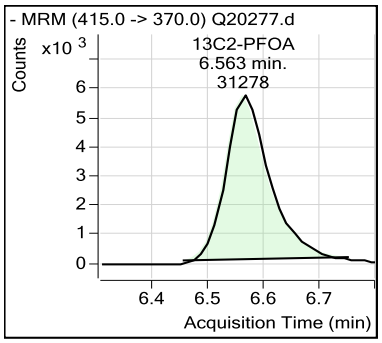
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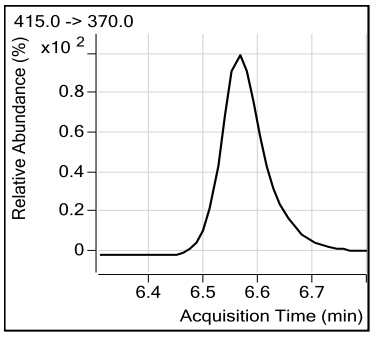


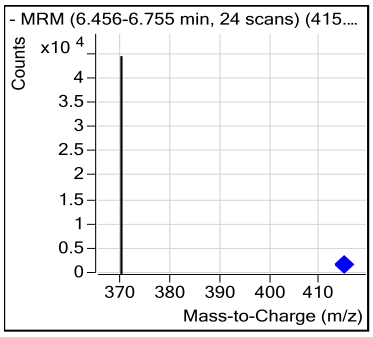




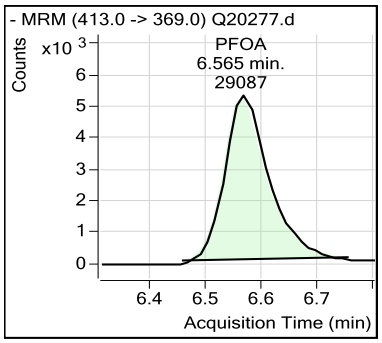
13C2-PFOA

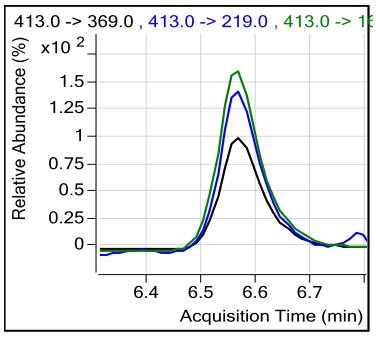


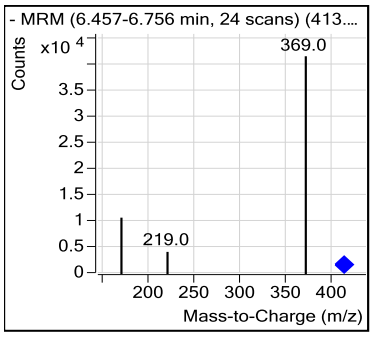




PFOA

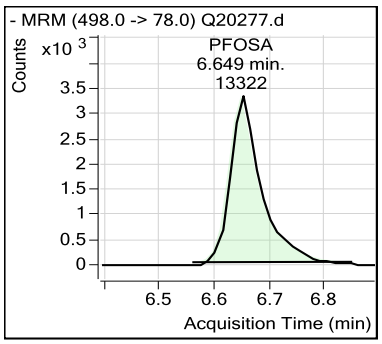


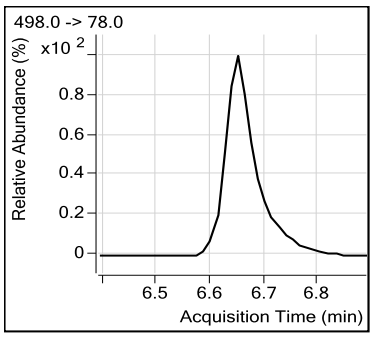


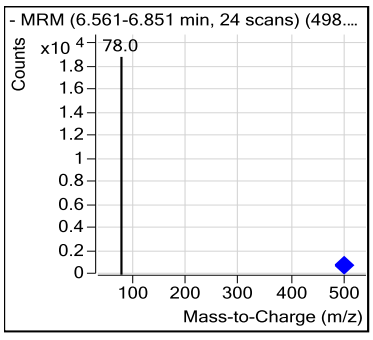


Perfluorinated Compounds by LC/MS/MS.

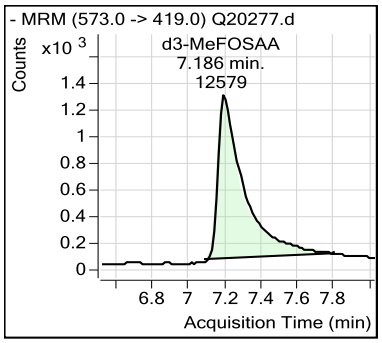
PFOSA

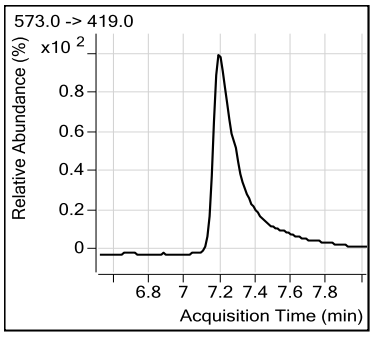


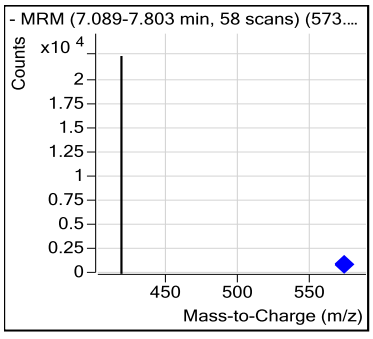




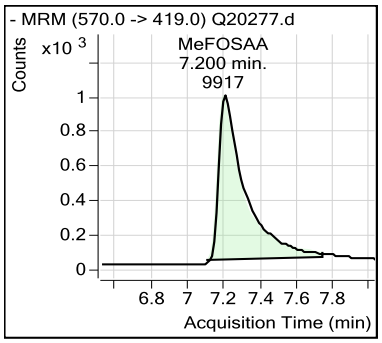
d3-MeFOSAA

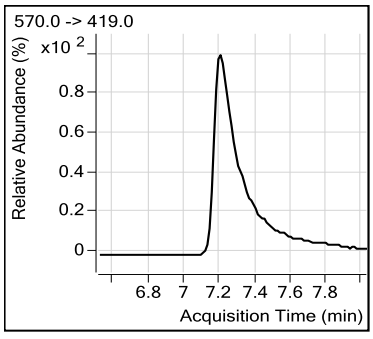


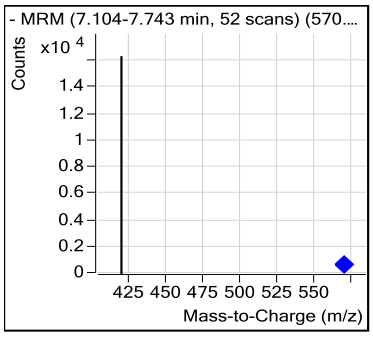




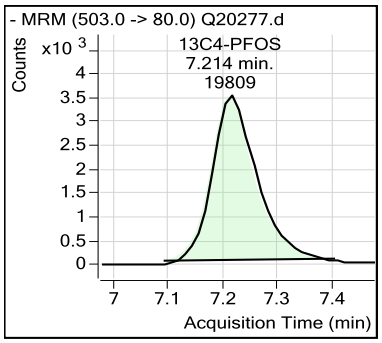
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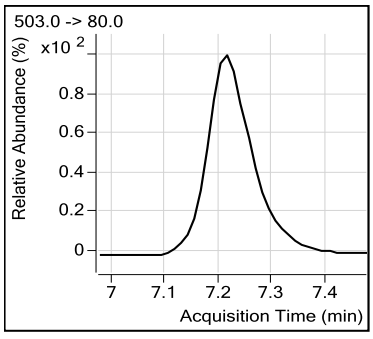


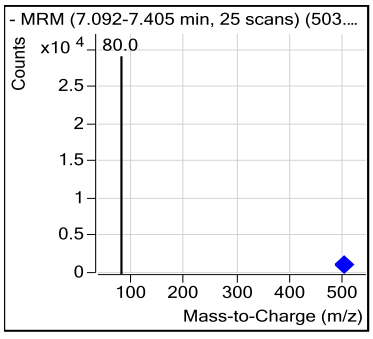




13C4-PFOS

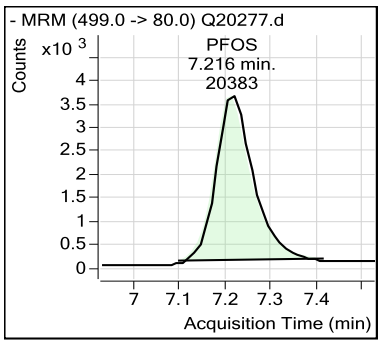


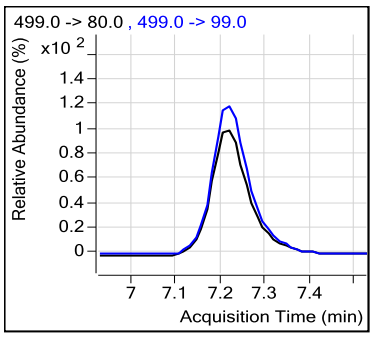


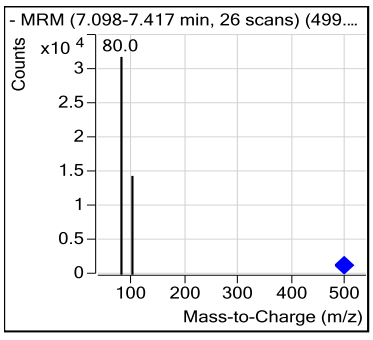


Perfluorinated Compounds by LC/MS/MS.

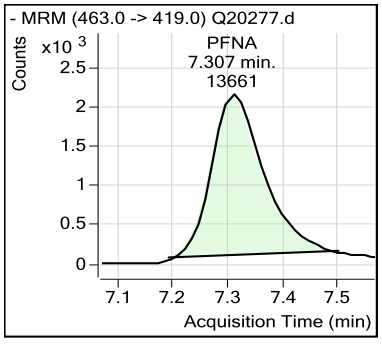
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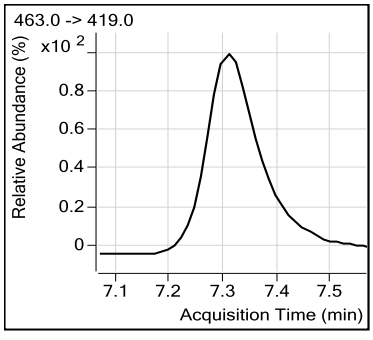


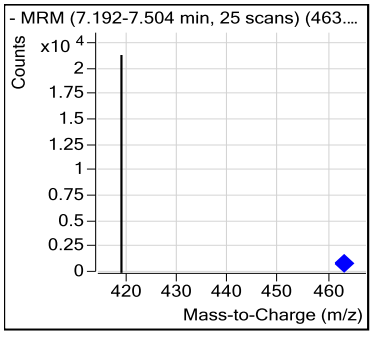




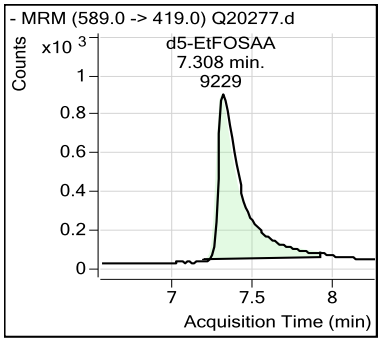
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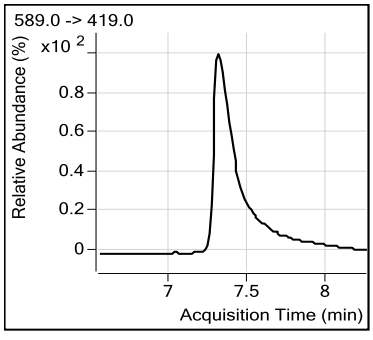


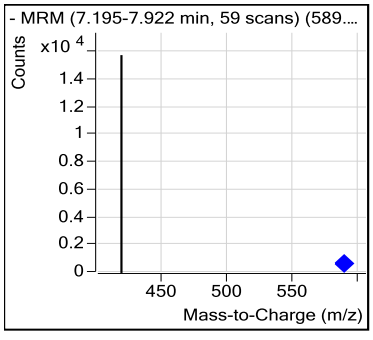




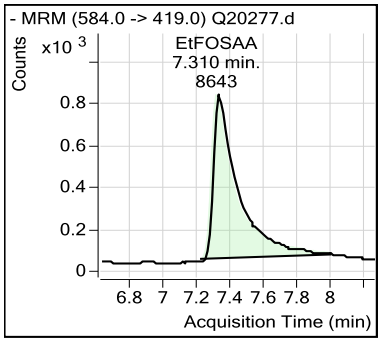
d5-EtFOSAA

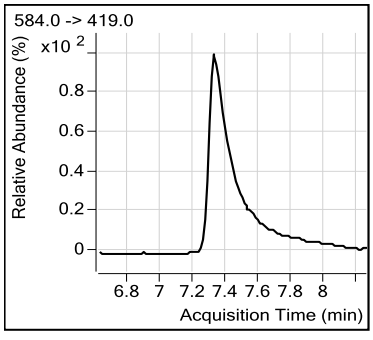


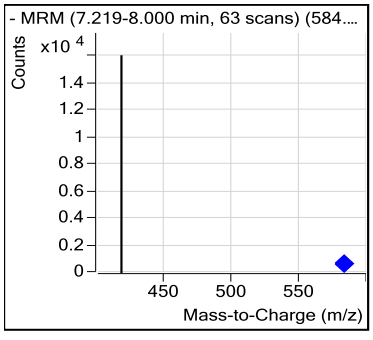




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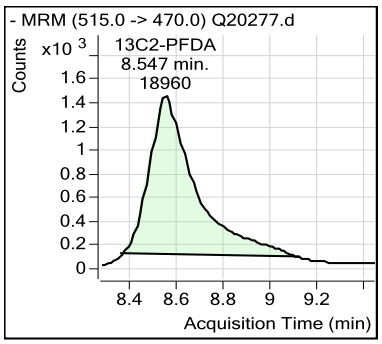


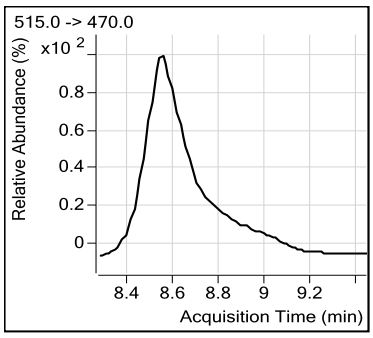


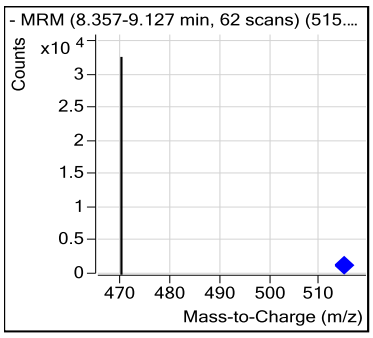


Perfluorinated Compounds by LC/MS/MS.

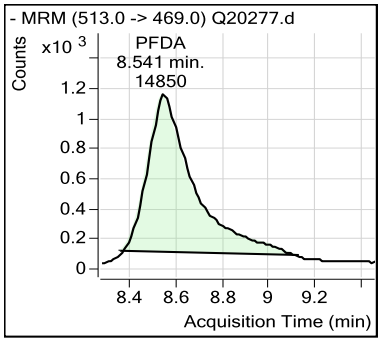
13C2-PFDA

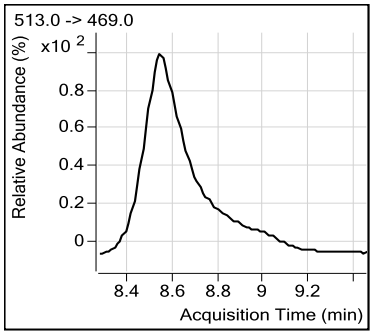


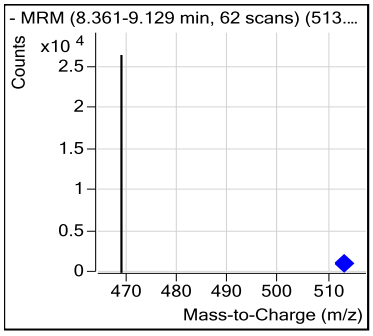




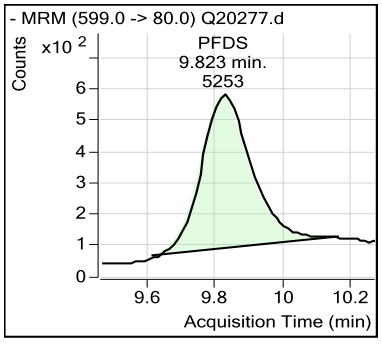
PFDA

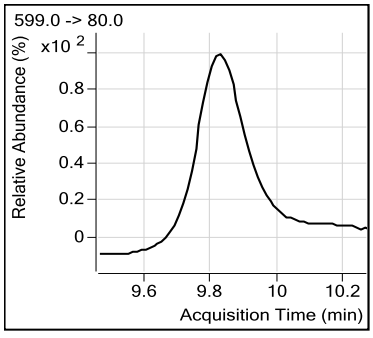


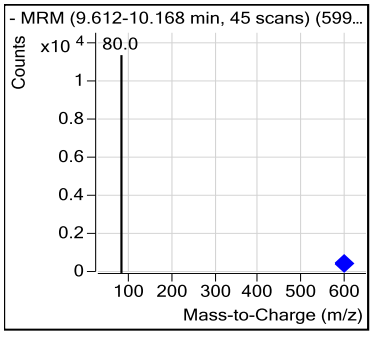




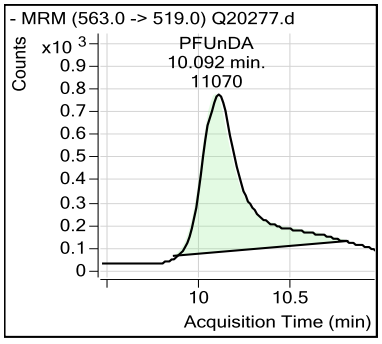
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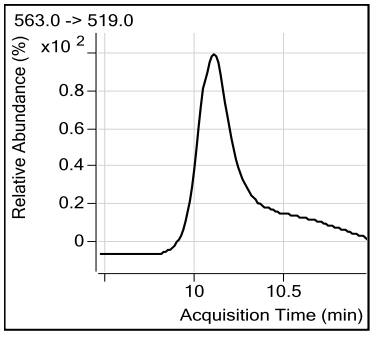


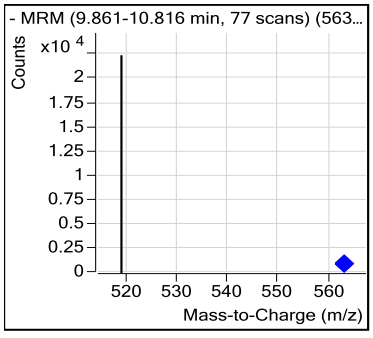




PFUnDA





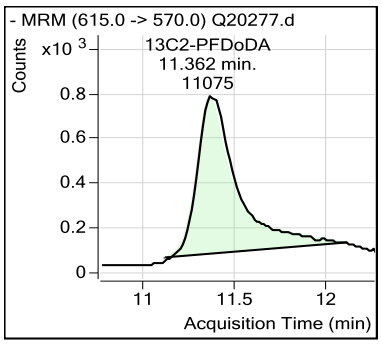


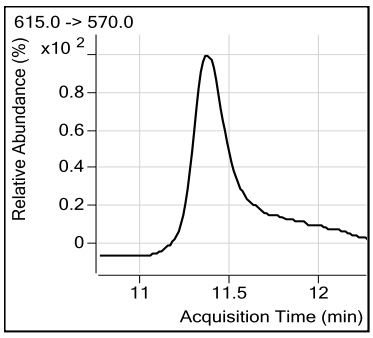
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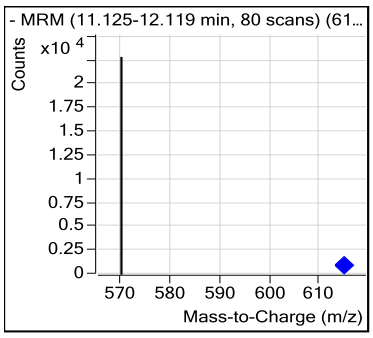
7

Perfluorinated Compounds by LC/MS/MS.

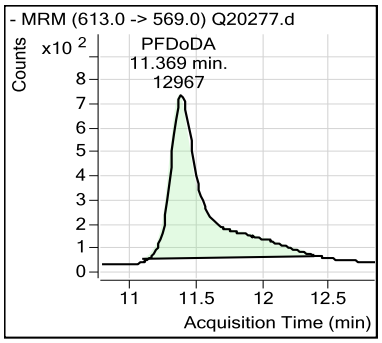
13C2-PFDoDA

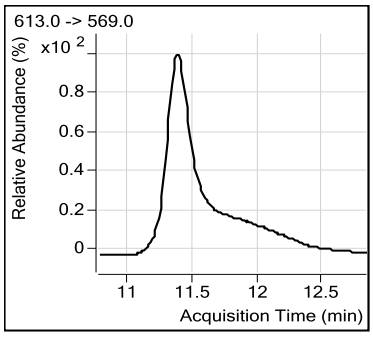


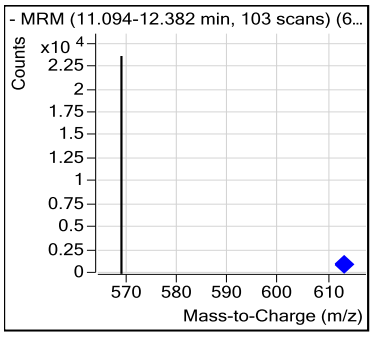




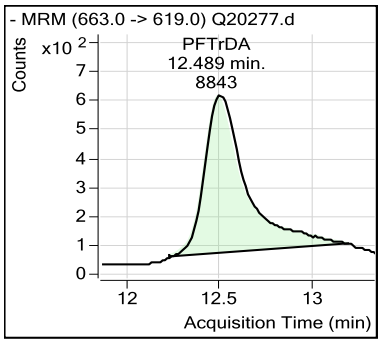
PFDoDA

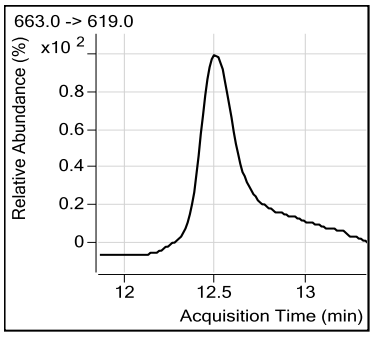


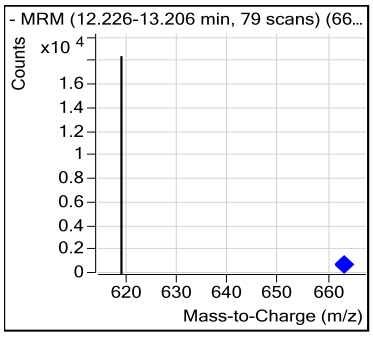




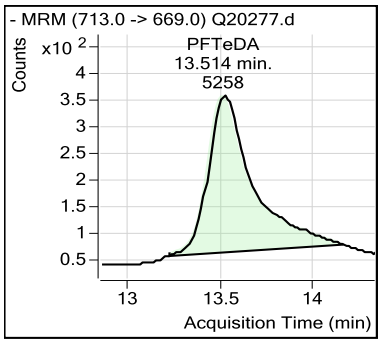
PFTrDA

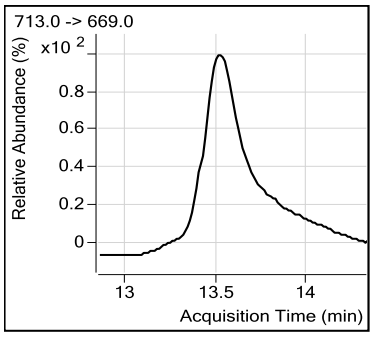


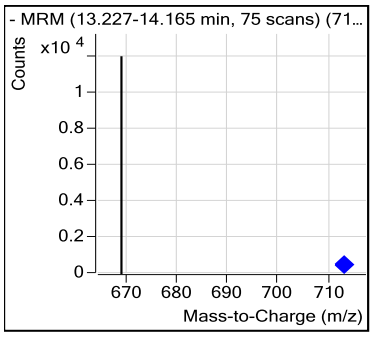




PFTeDA







SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20288.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 04:18
Sample Name	:	CC607-20
Vial	:	Vial 92
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33

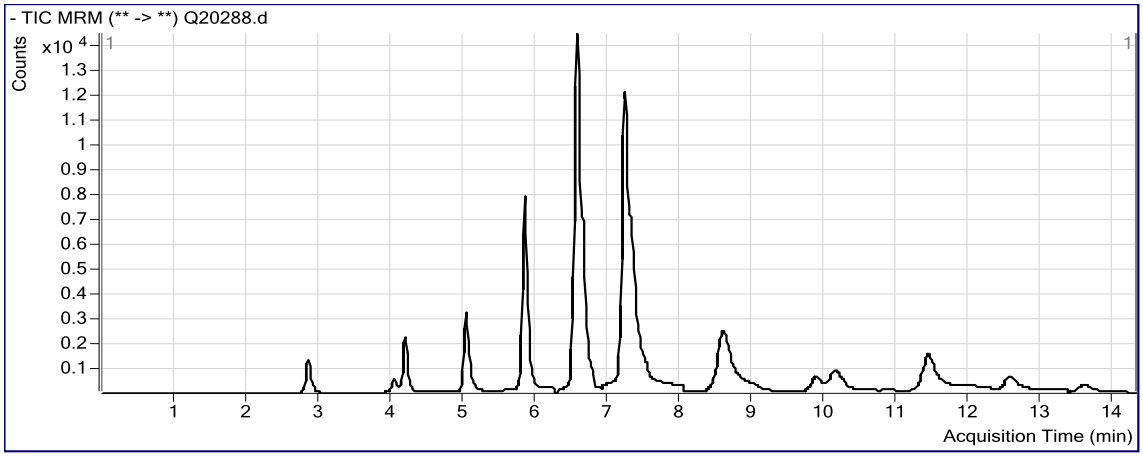
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.576	415.0 -> 370.0	32031	20.000	µg/L		0.038
d3-MeFOSAA	7.198	573.0 -> 419.0	15457	40.000	µg/L		0.013
13C4-PFOS	7.227	503.0 -> 80.0	21482	20.000	µg/L		0.038
13C2-PFDoDA	11.425	615.0 -> 570.0	11414	20.000	µg/L		0.113
System Monitoring Compounds							
13C2-PFHxA	5.029	315.0 -> 270.0	8222	19.94	µg/L		0.038
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 99.72%				
d5-EtFOSAA	7.321	589.0 -> 419.0	8317	26.23	µg/L		0.025
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 65.57%				
13C2-PFDA	8.572	515.0 -> 470.0	19500	19.80	µg/L		0.075
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 99.01%				
Target Compounds							**Qvalue**
PFBA	2.840	213.0 -> 169.0	7368	15.201	µg/L		100
PFPeA	4.036	263.0 -> 219.0	2463	16.586	µg/L		100
PFBS	4.178	299.0 -> 80.0	6929	19.118	µg/L		93
PFHxA	5.021	313.0 -> 269.0	8090	19.667	µg/L		98
PFHxS	5.830	399.0 -> 80.0	13362	21.122	µg/L		87
PFHpA	5.848	363.0 -> 319.0	16273	21.291	µg/L	#	70
PFHpS	6.523	449.0 -> 80.0	13952	20.278	µg/L		100
PFOA	6.577	413.0 -> 369.0	29802	19.994	µg/L		81
PFOSA	6.662	498.0 -> 78.0	14172	16.839	µg/L		100
MeFOSAA	7.200	570.0 -> 419.0	10262	27.671	µg/L		100
PFOS	7.228	499.0 -> 80.0	22275	20.079	µg/L		87
PFNA	7.319	463.0 -> 419.0	14437	19.893	µg/L		100
EtFOSAA	7.322	584.0 -> 419.0	8294	24.631	µg/L		100
PFDA	8.579	513.0 -> 469.0	15254	19.790	µg/L		100
PFDS	9.861	599.0 -> 80.0	5655	22.476	µg/L		100
PFUnDA	10.130	563.0 -> 519.0	11220	19.614	µg/L		100
PFDoDA	11.419	613.0 -> 569.0	13495	20.227	µg/L		100
PFTrDA	12.539	663.0 -> 619.0	9043	19.622	µg/L		100
PFTeDA	13.564	713.0 -> 669.0	5367	18.791	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

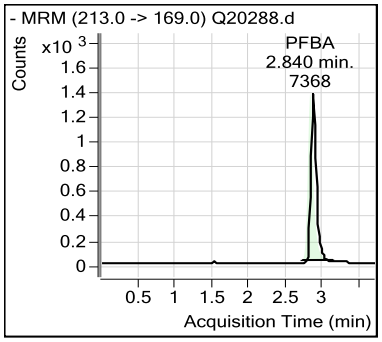
SGS ACCUTEST FA32826

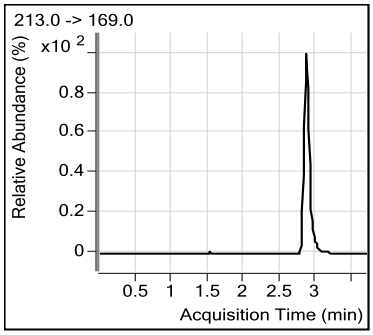
Perfluorinated Compounds by LC/MS/MS.

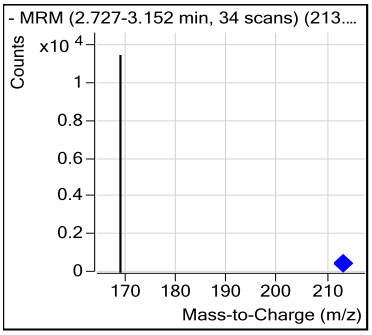
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 04:18
Sample Name	:	CC607-20
Vial	:	Vial 92
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
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Quant Batch Name	:	SQ607.batch.bin
Last Calib Update	:	2016-04-13 09:33



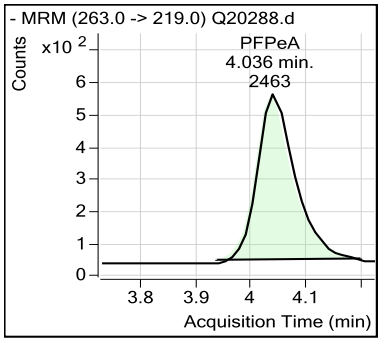
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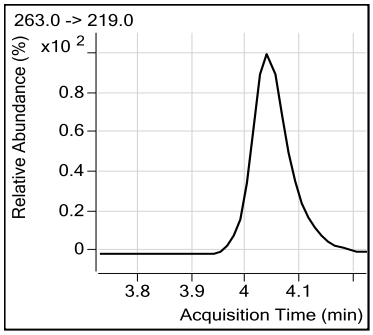


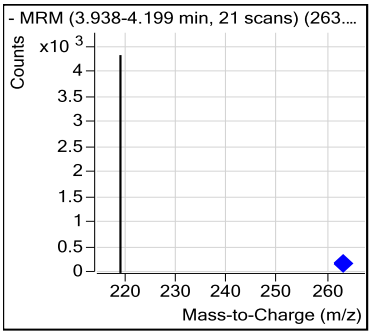




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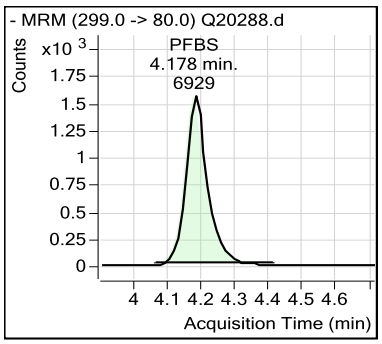


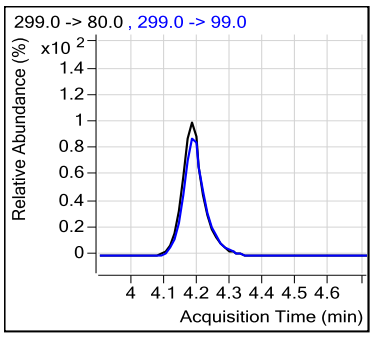


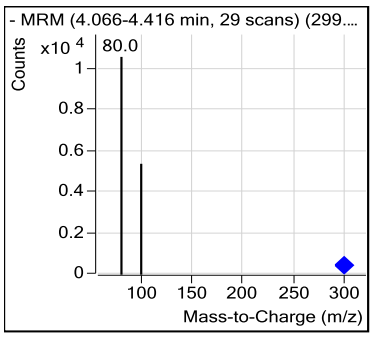


Perfluorinated Compounds by LC/MS/MS.

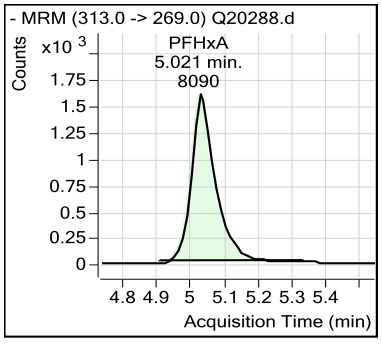
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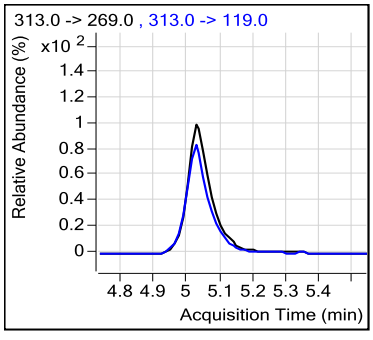


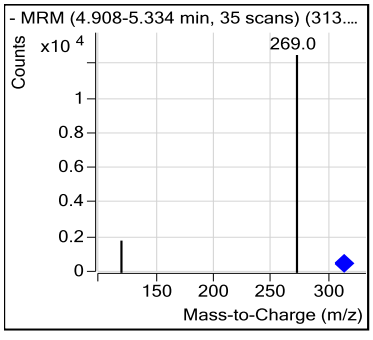




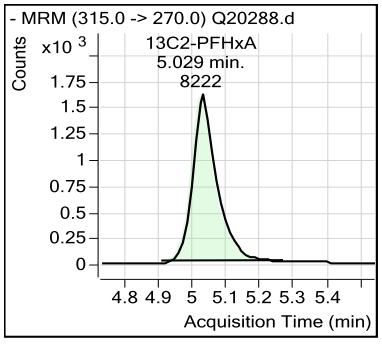
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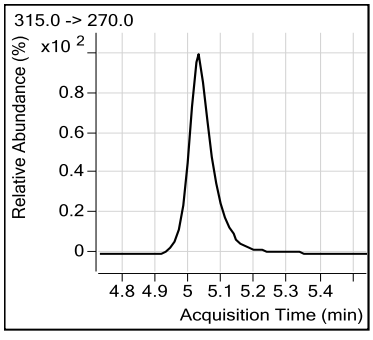


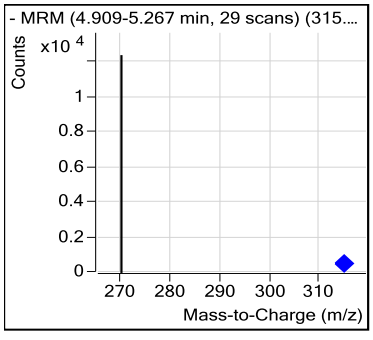




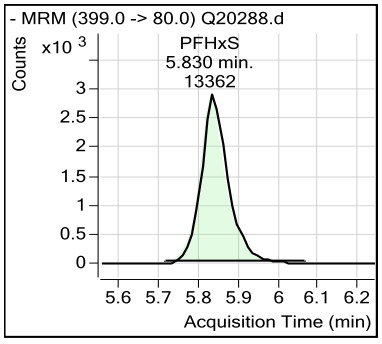
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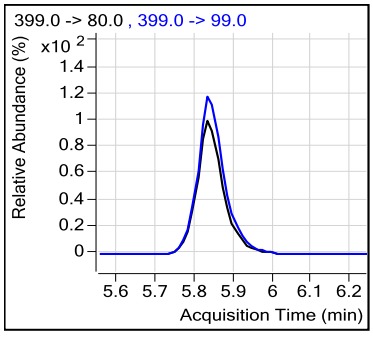


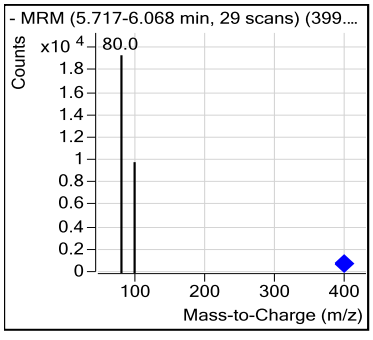




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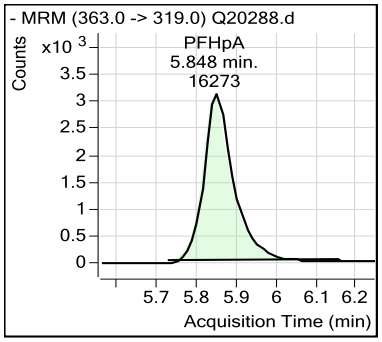


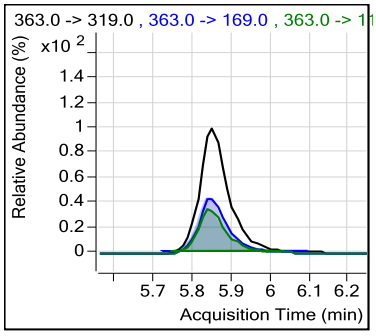


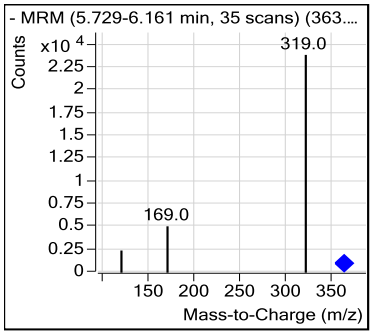


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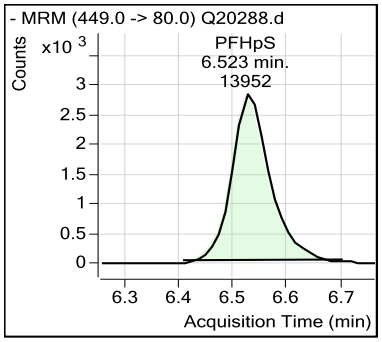
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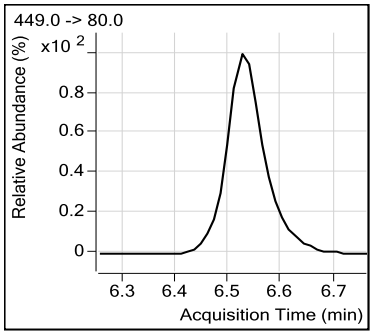


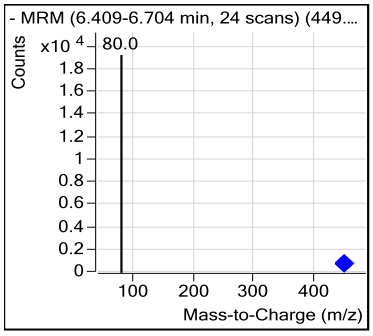




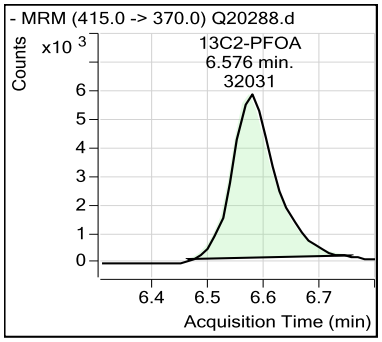
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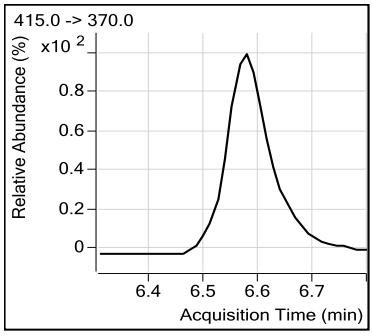


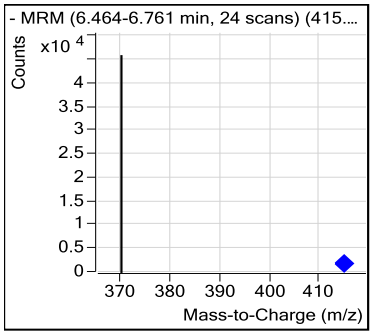




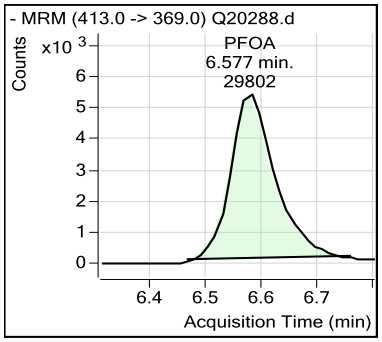
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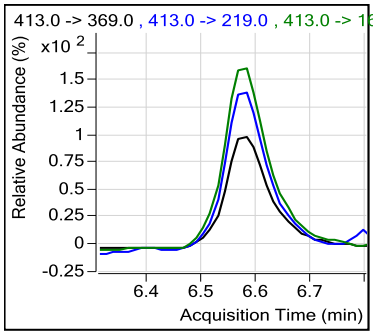


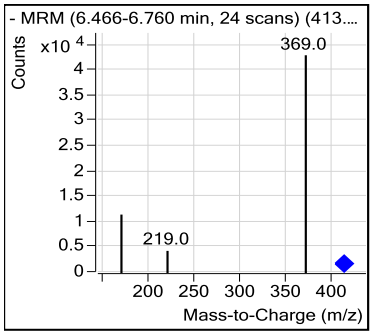




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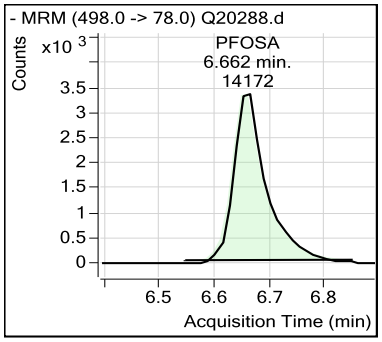


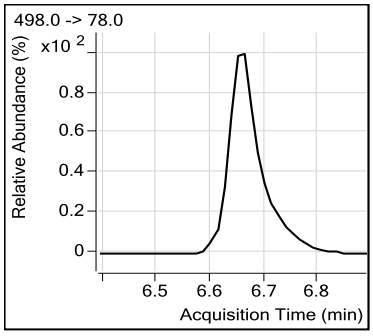


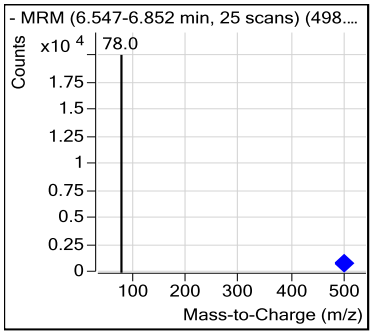
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

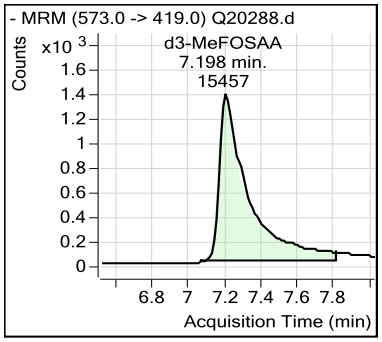
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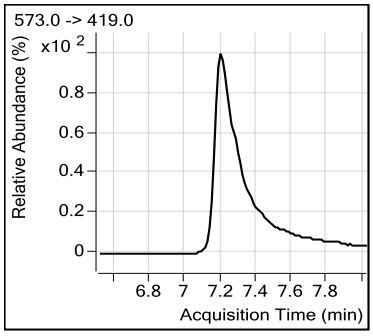


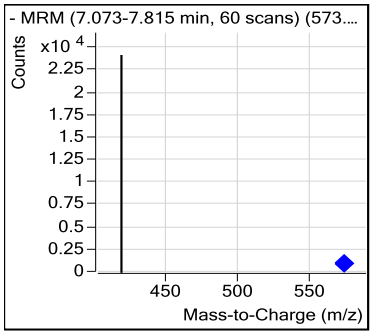




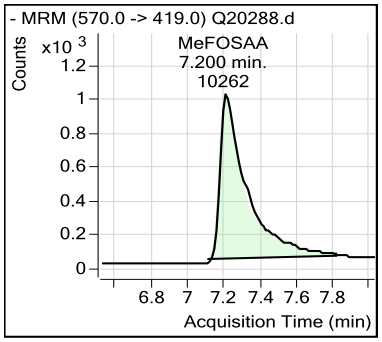
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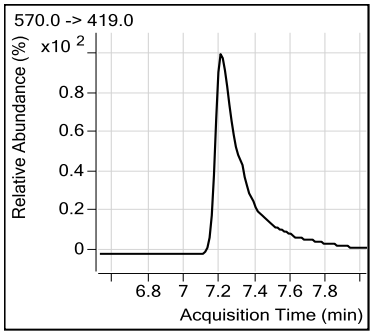


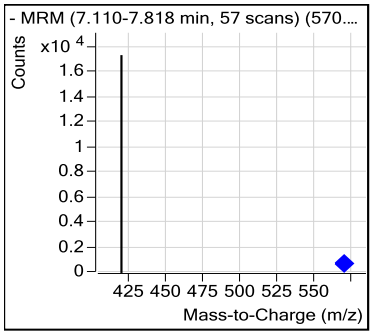




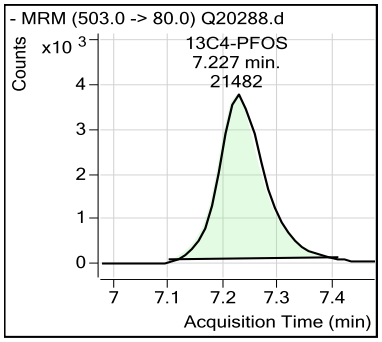
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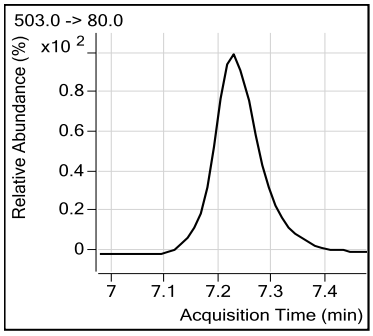


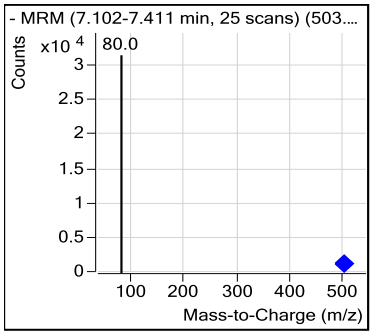




13C4-PFOS

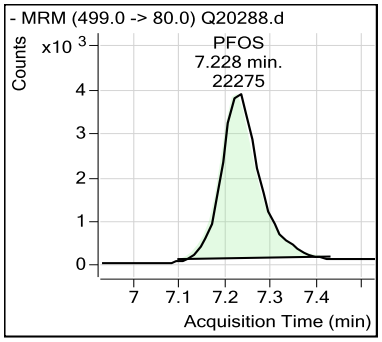


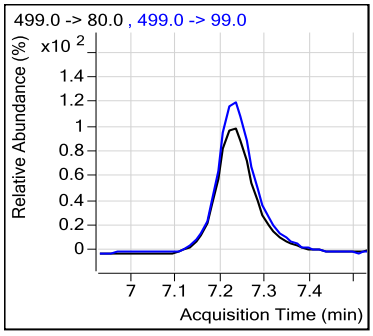


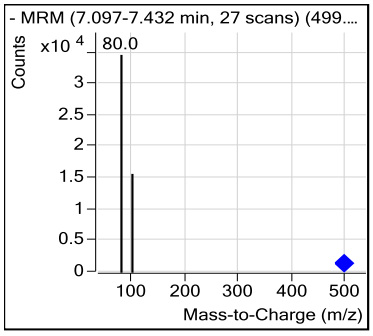


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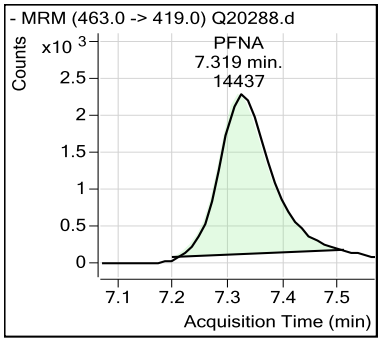
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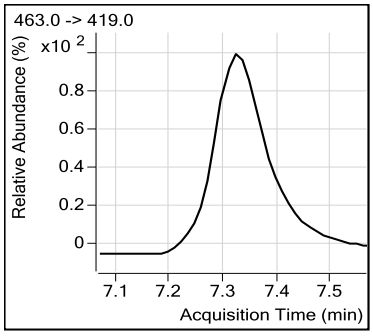


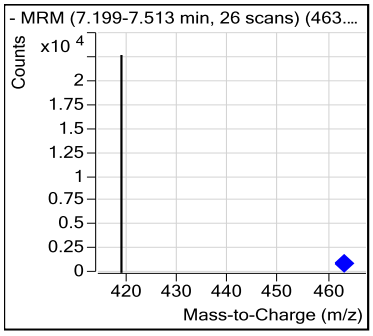




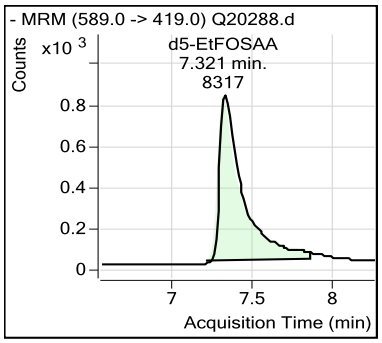
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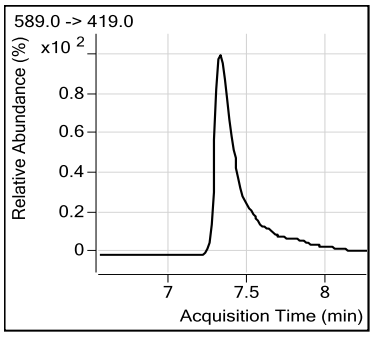


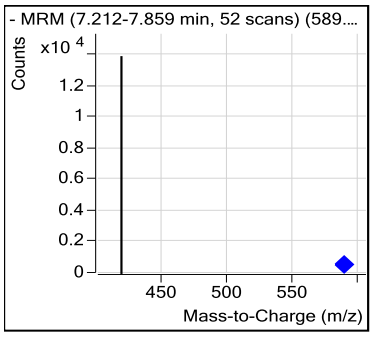




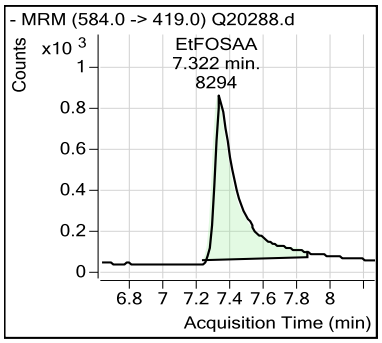
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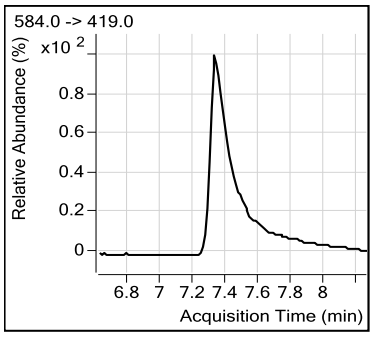


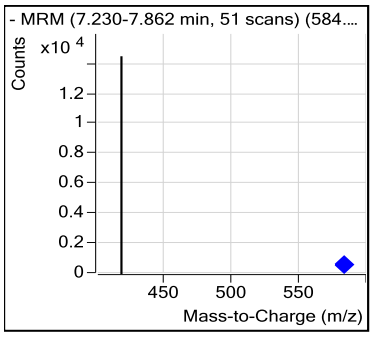




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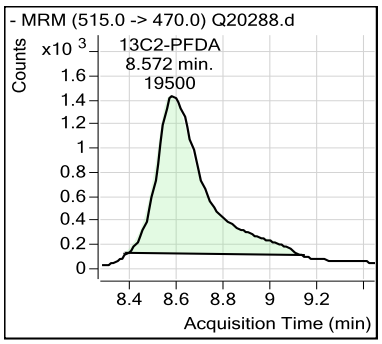


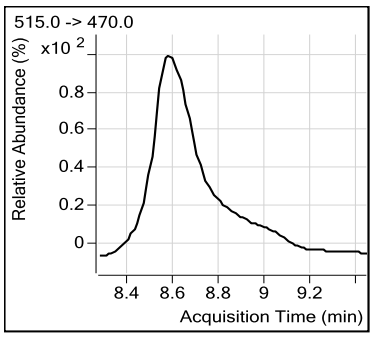


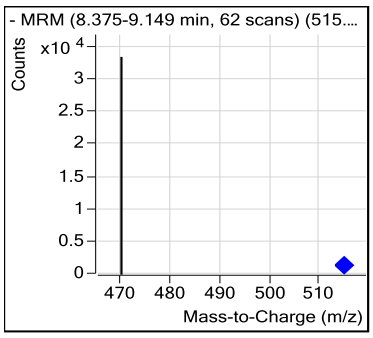


Perfluorinated Compounds by LC/MS/MS.

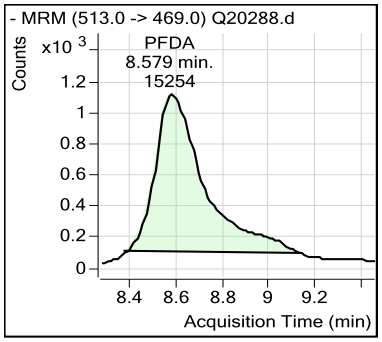
13C2-PFDA

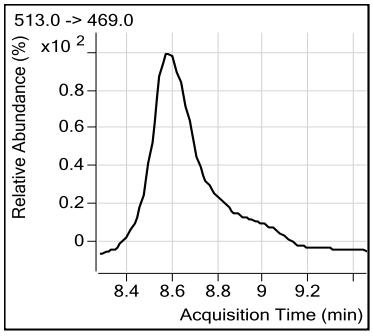


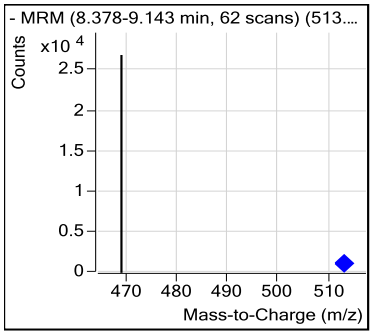




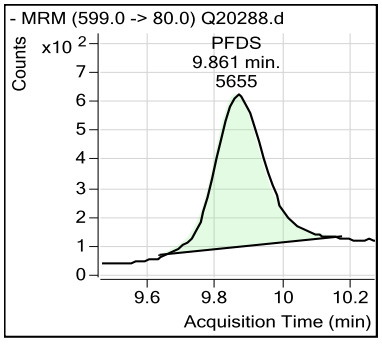
PFDA

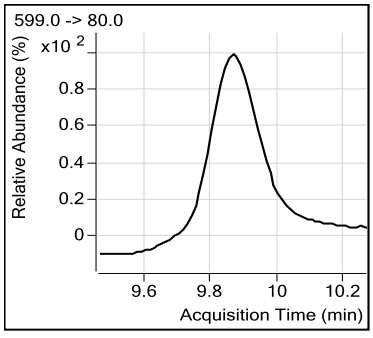


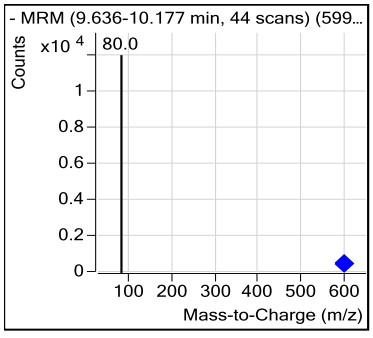




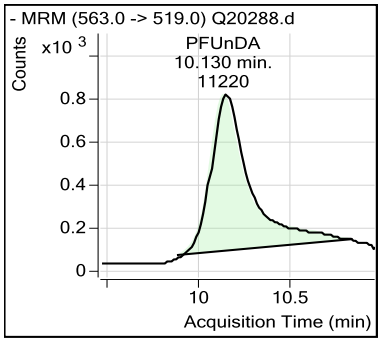
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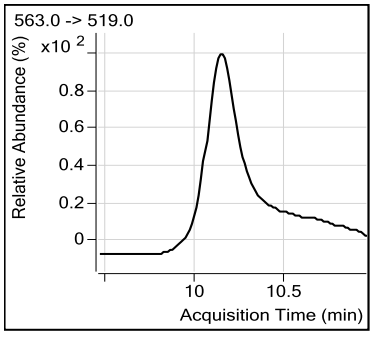


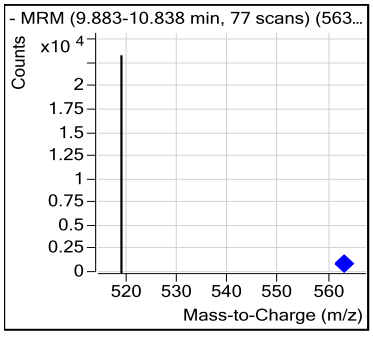




PFUnDA

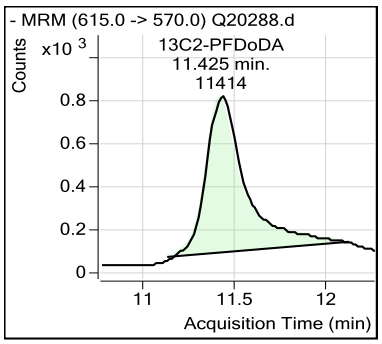


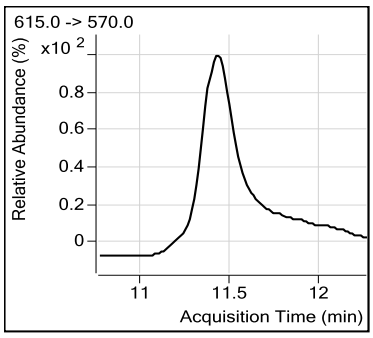


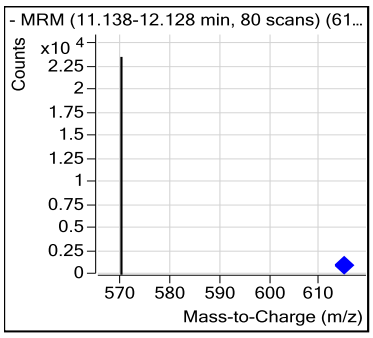


Perfluorinated Compounds by LC/MS/MS.

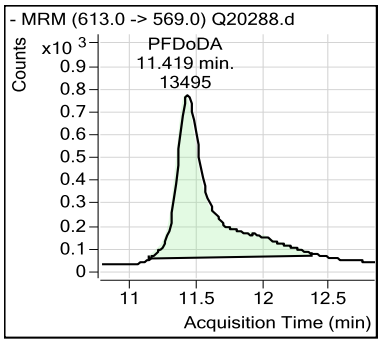
13C2-PFDoDA

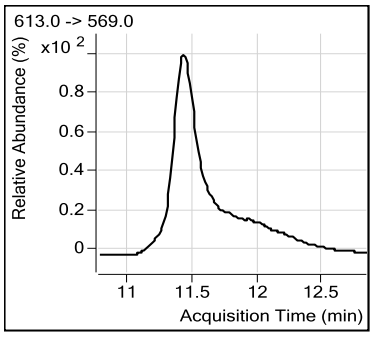


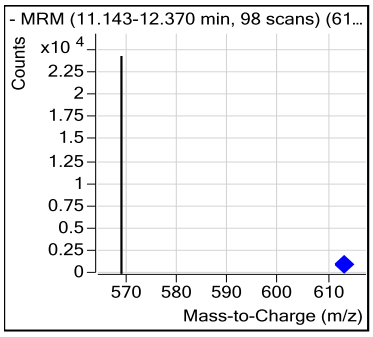




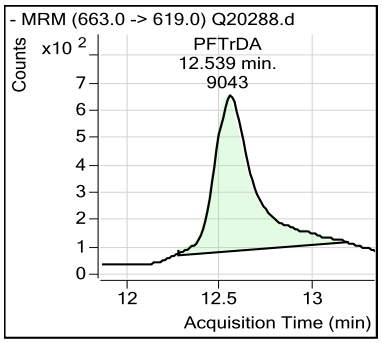
PFDoDA

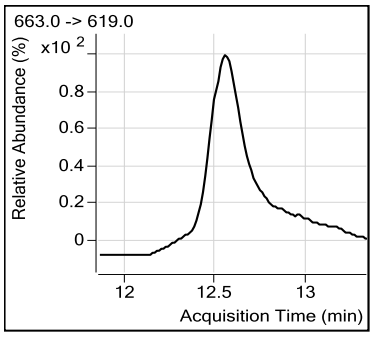


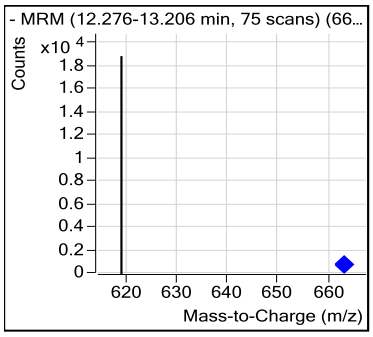




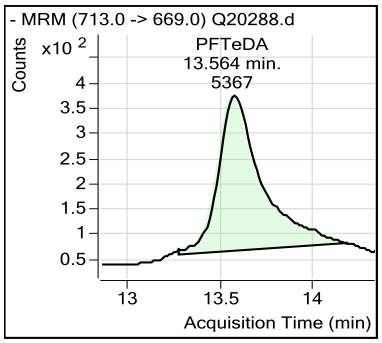
PFTrDA

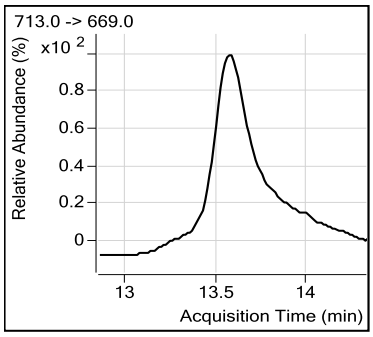


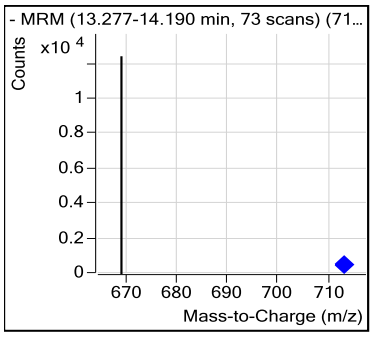




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

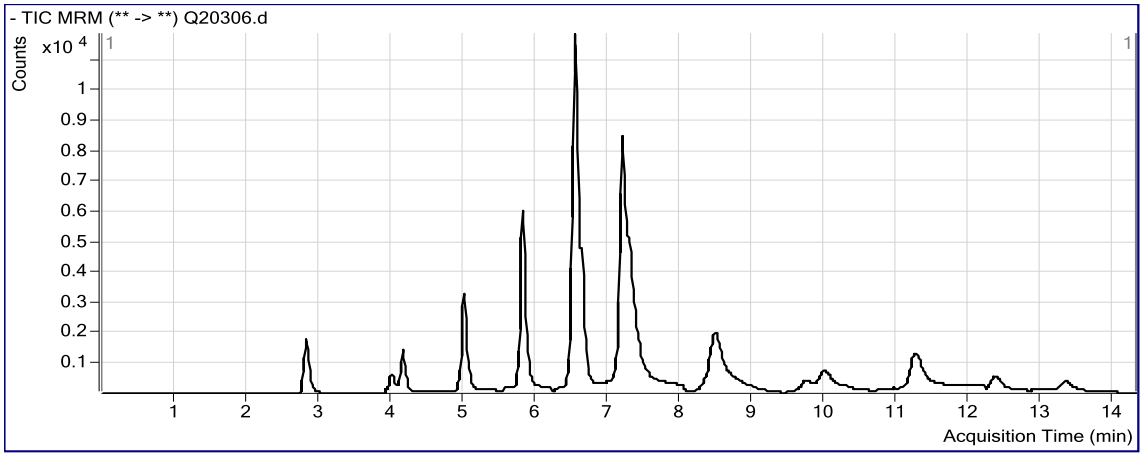
Data File	:	Q20306.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 12:00
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ608,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.550	415.0 -> 370.0	26997	20.000	µg/L		0.013
d3-MeFOSAA	7.198	573.0 -> 419.0	8806	40.000	µg/L		0.013
13C4-PFOS	7.189	503.0 -> 80.0	14036	20.000	µg/L		0.000
13C2-PFDoDA	11.250	615.0 -> 570.0	9766	20.000	µg/L		-0.063
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	8311	23.92	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 119.60%				
d5-EtFOSAA	7.308	589.0 -> 419.0	7265	41.99	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 104.97%				
13C2-PFDA	8.472	515.0 -> 470.0	15324	18.46	µg/L		-0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 92.31%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	9633	23.581	µg/L		100
PFPeA	4.011	263.0 -> 219.0	2747	21.950	µg/L		100
PFBS	4.153	299.0 -> 80.0	4225	17.840	µg/L		94
PFHxA	4.996	313.0 -> 269.0	8278	23.877	µg/L		99
PFHxS	5.805	399.0 -> 80.0	8173	19.773	µg/L		85
PFHpA	5.810	363.0 -> 319.0	14678	22.785	µg/L	#	71
PFHpS	6.496	449.0 -> 80.0	8670	19.285	µg/L		100
PFOA	6.539	413.0 -> 369.0	25253	20.101	µg/L		83
PFOSA	6.637	498.0 -> 78.0	10157	21.184	µg/L		100
PFOS	7.191	499.0 -> 80.0	14773	20.381	µg/L		87
MeFOSAA	7.200	570.0 -> 419.0	9066	44.328	µg/L		100
PFNA	7.281	463.0 -> 419.0	12811	20.944	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	7464	40.816	µg/L		100
PFDA	8.466	513.0 -> 469.0	13939	21.457	µg/L		100
PFDS	9.723	599.0 -> 80.0	3703	17.198	µg/L		100
PFUnDA	9.992	563.0 -> 519.0	10177	20.792	µg/L		100
PFDoDA	11.244	613.0 -> 569.0	9389	16.446	µg/L		100
PFTrDA	12.338	663.0 -> 619.0	8327	21.115	µg/L		100
PFTeDA	13.327	713.0 -> 669.0	5322	21.780	µg/L		100

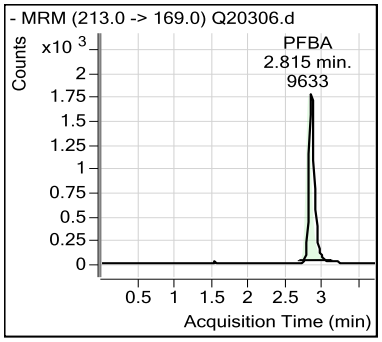
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

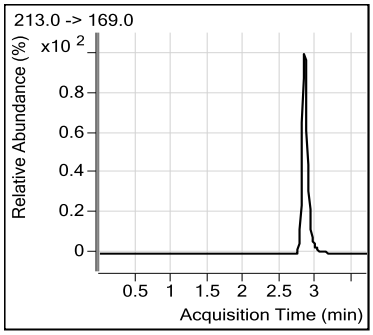
Perfluorinated Compounds by LC/MS/MS.

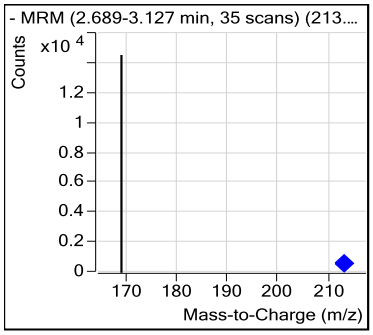
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 12:00
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ608,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



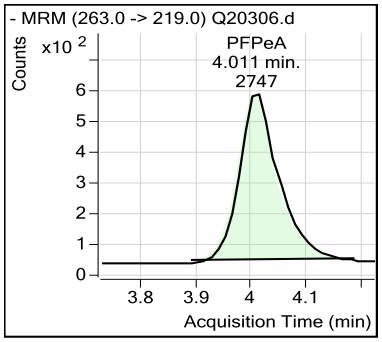
PFBA

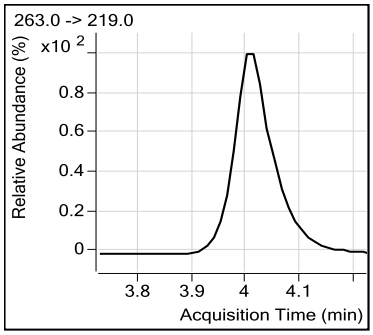


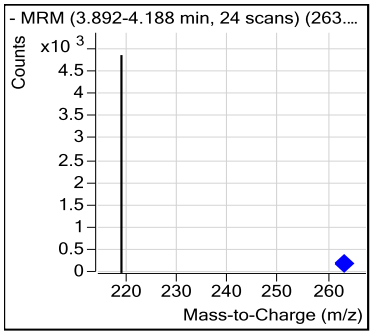




PFPeA

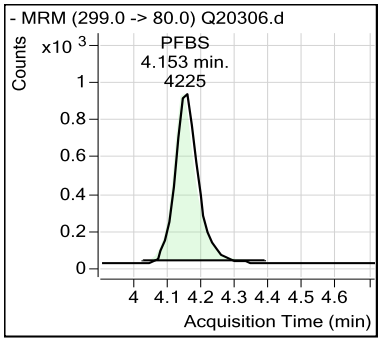


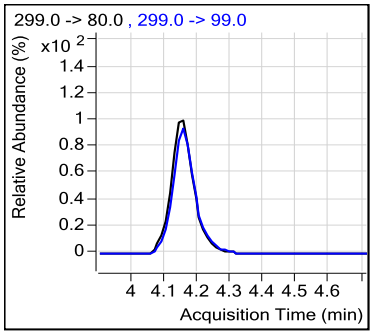


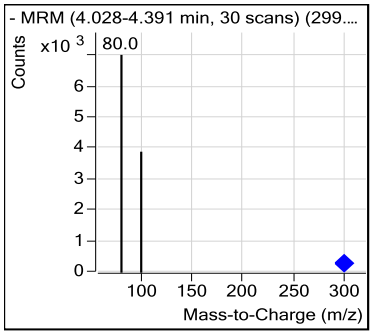


Perfluorinated Compounds by LC/MS/MS.

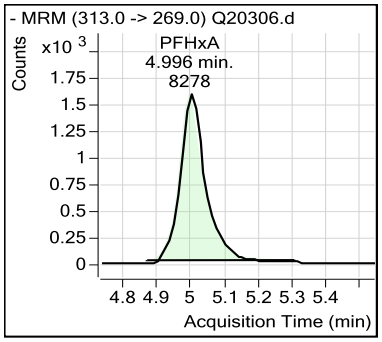
PFBS

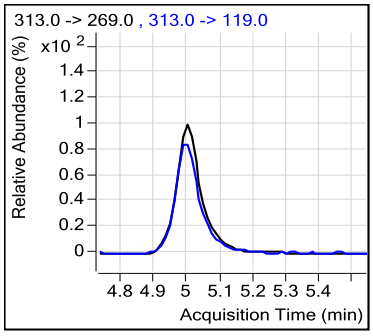


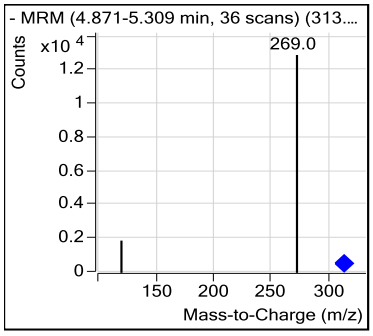




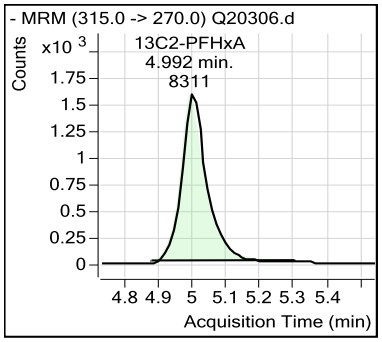
PFHxA

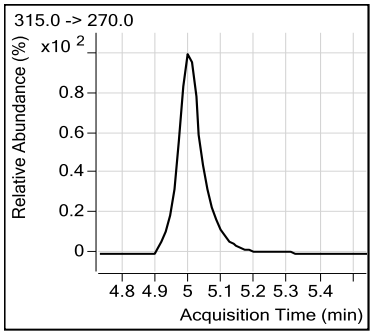


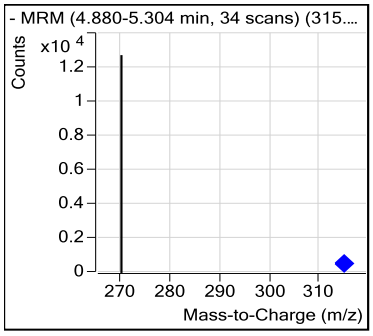




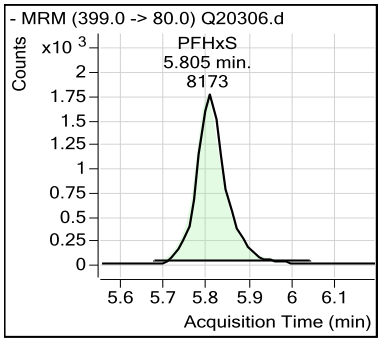
13C2-PFHxA

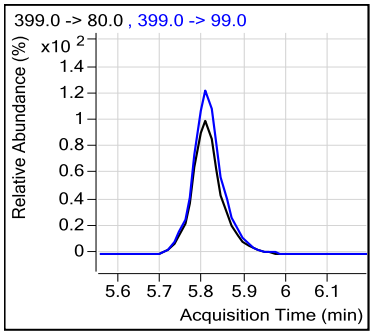


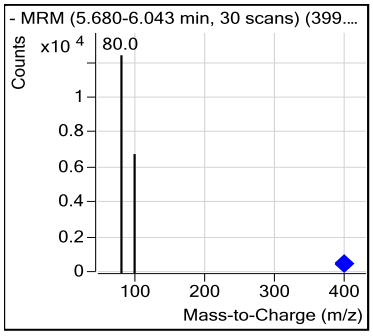




PFHxS

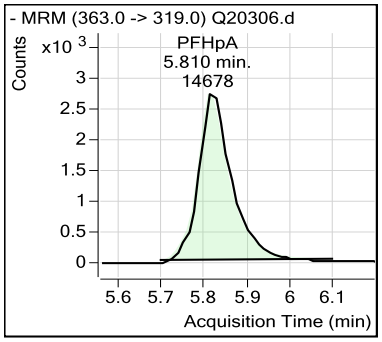


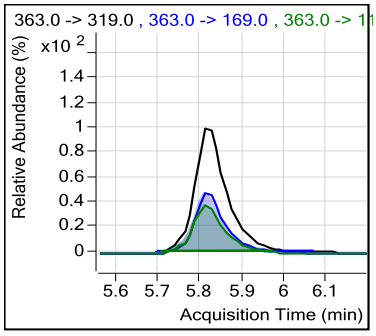


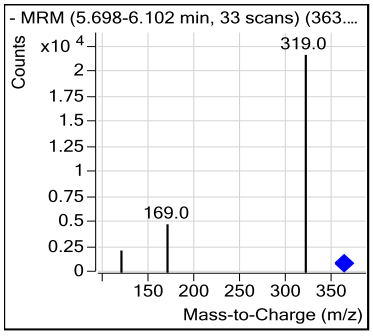


Perfluorinated Compounds by LC/MS/MS.

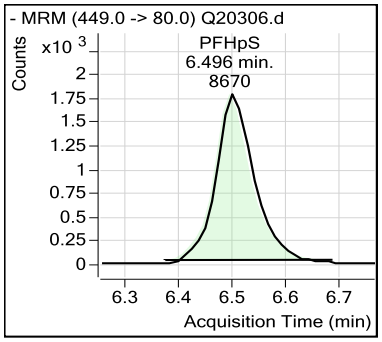
PFHpA

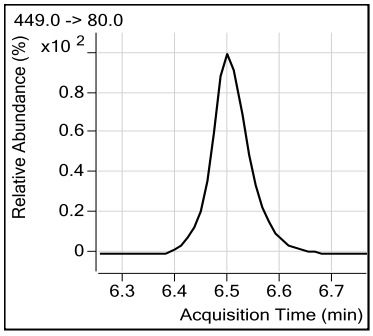


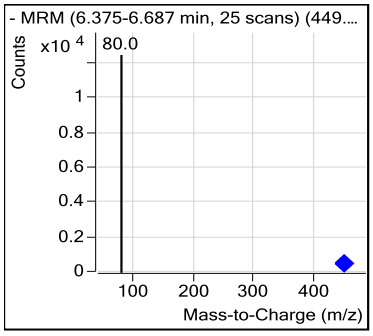




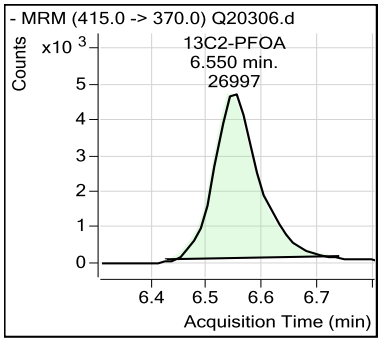
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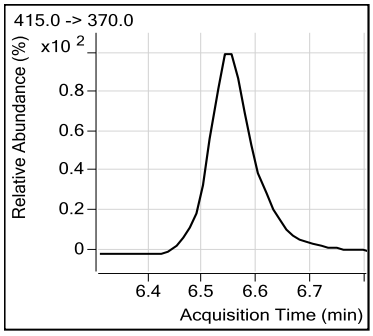


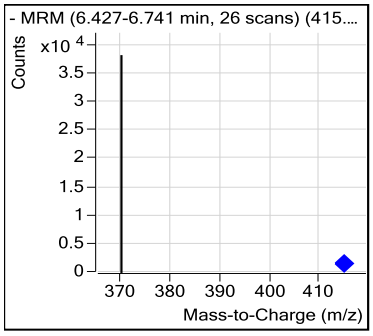




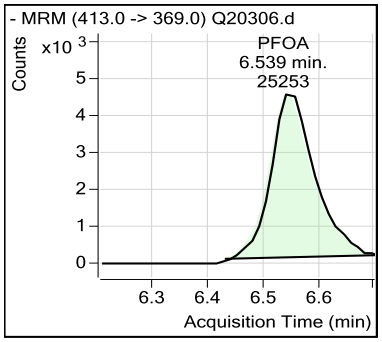
13C2-PFOA

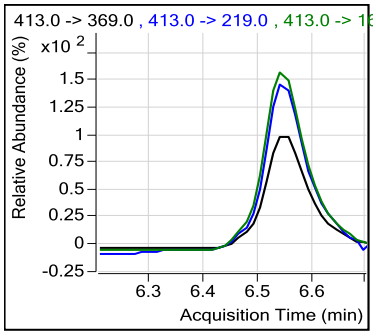


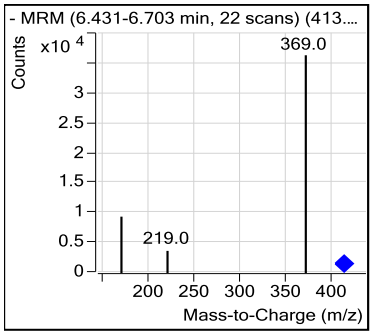




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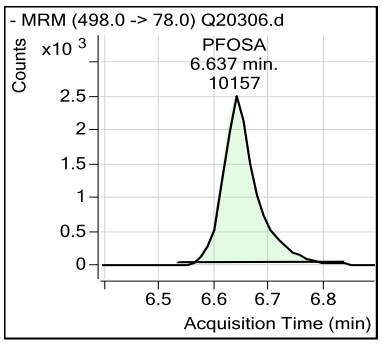


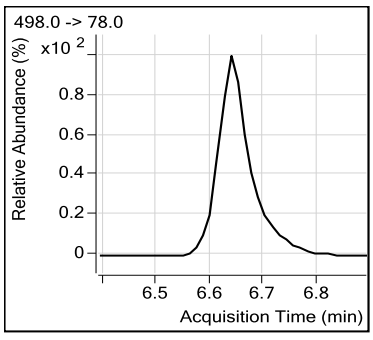


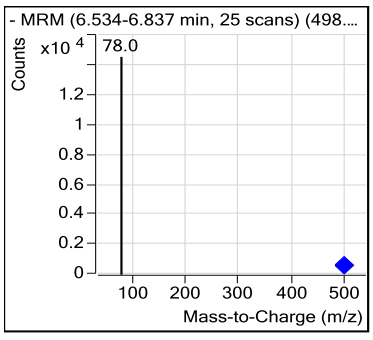


Perfluorinated Compounds by LC/MS/MS.

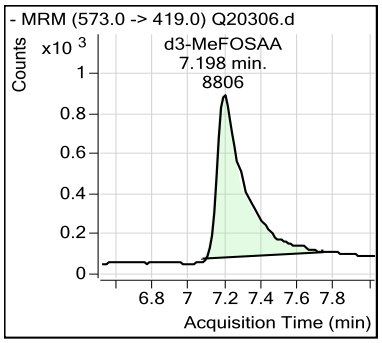
PFOSA

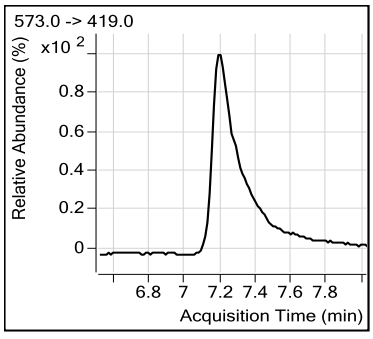


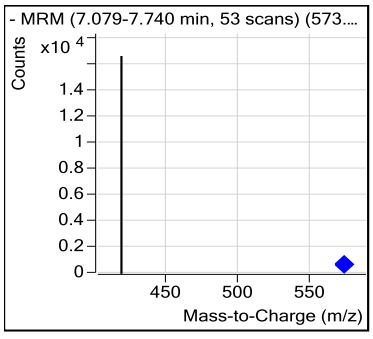




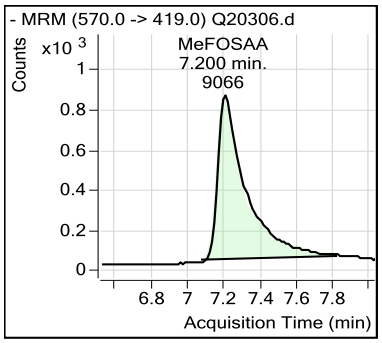
d3-MeFOSAA

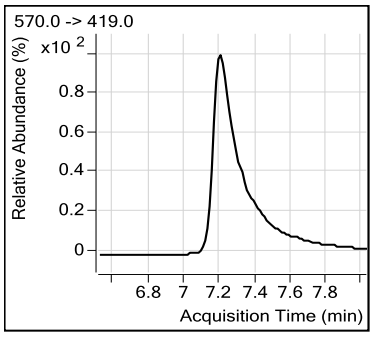


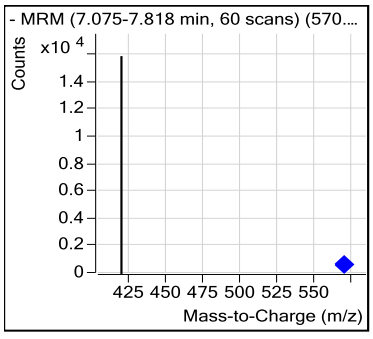




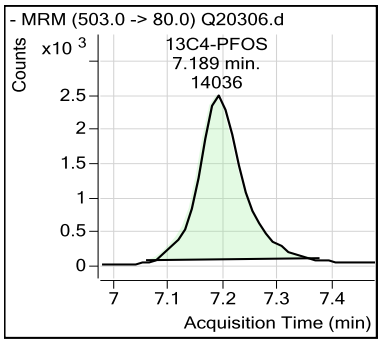
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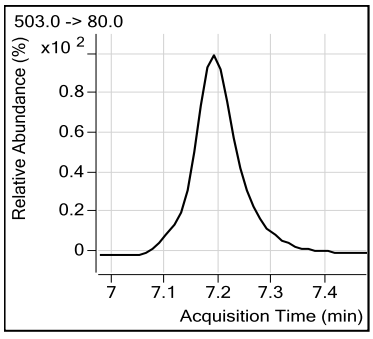


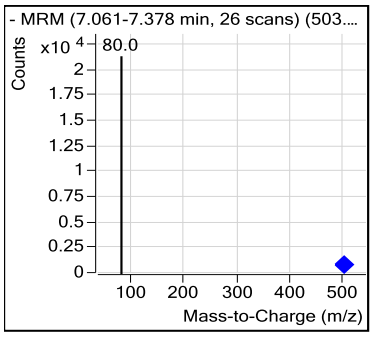




13C4-PFOS

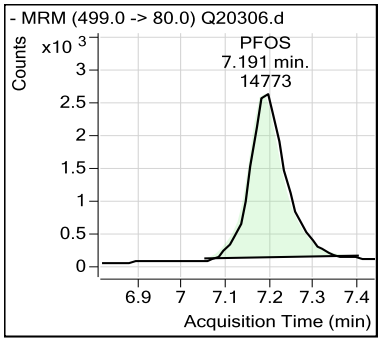


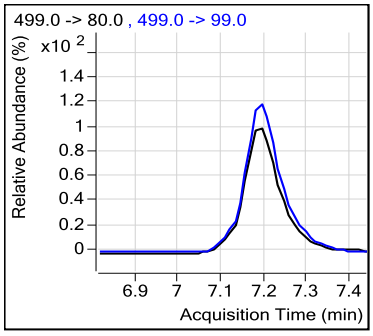


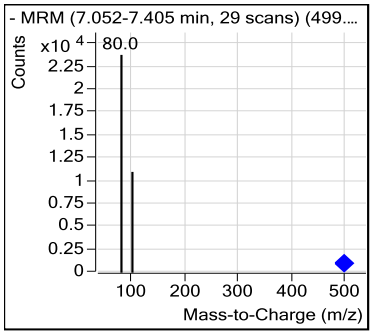


Perfluorinated Compounds by LC/MS/MS.

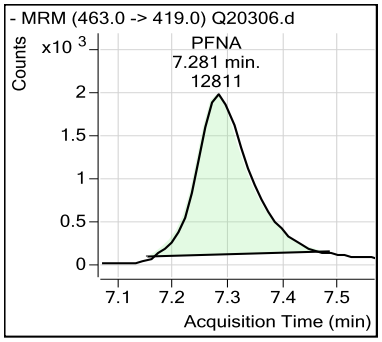
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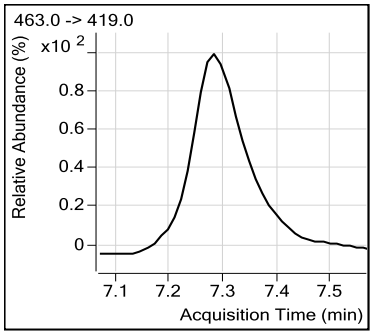


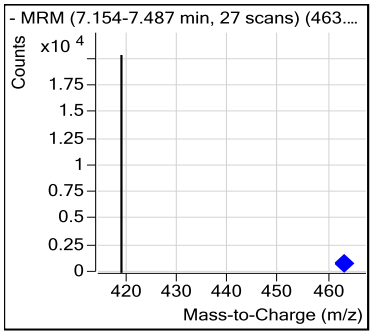




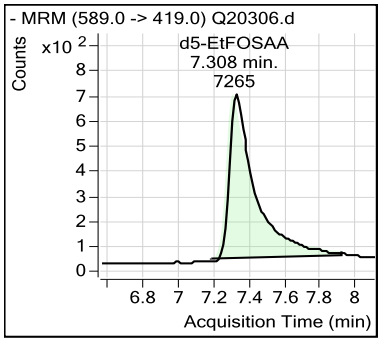
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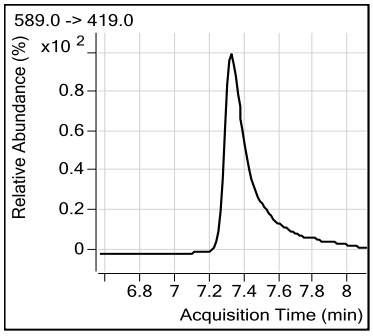


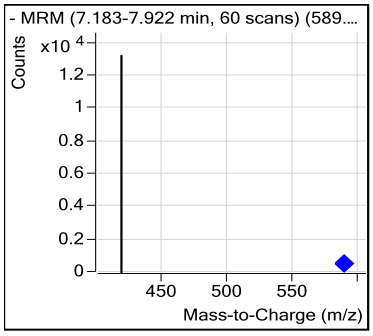




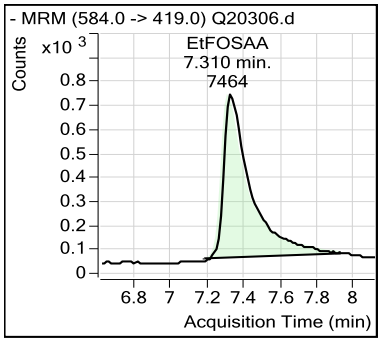
d5-EtFOSAA

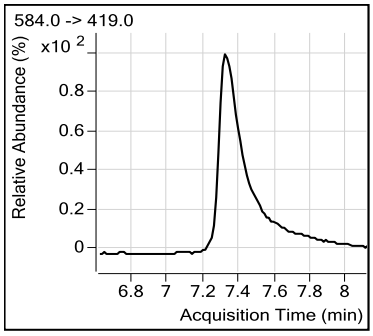


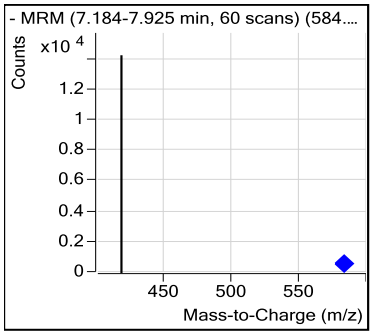




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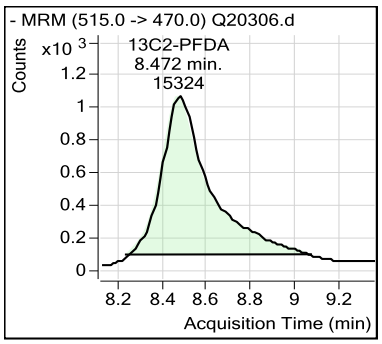


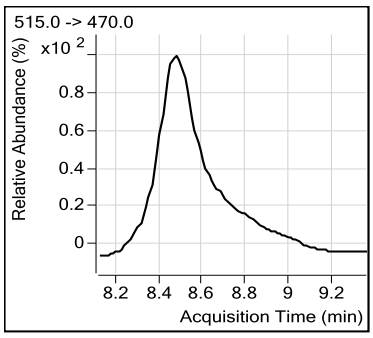


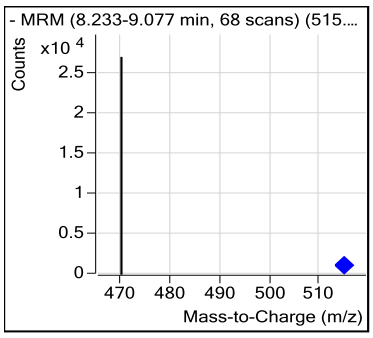


Perfluorinated Compounds by LC/MS/MS.

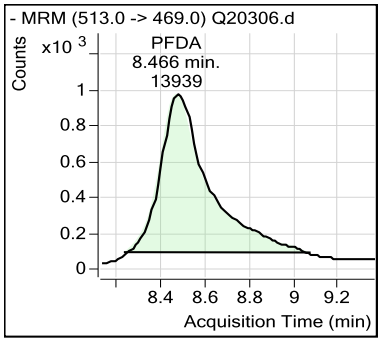
13C2-PFDA

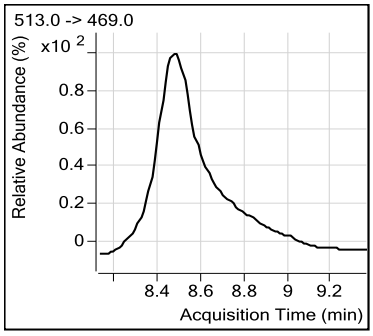


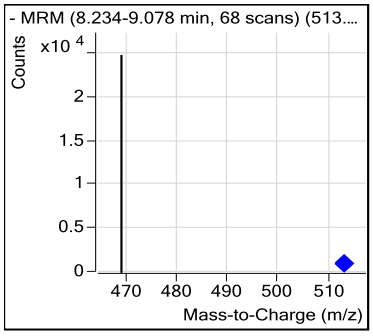




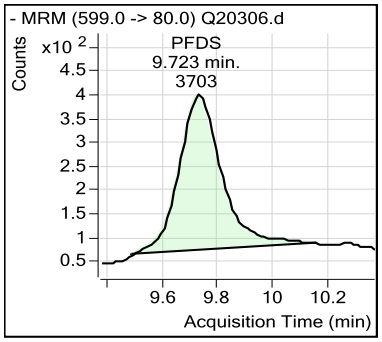
PFDA

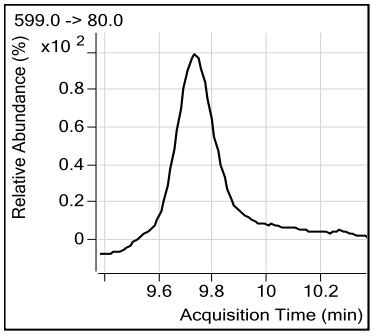


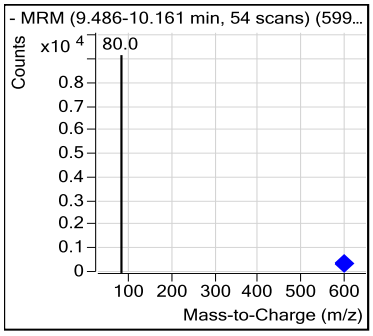




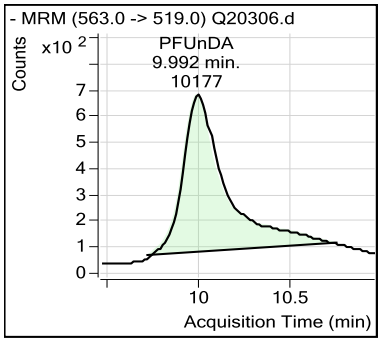
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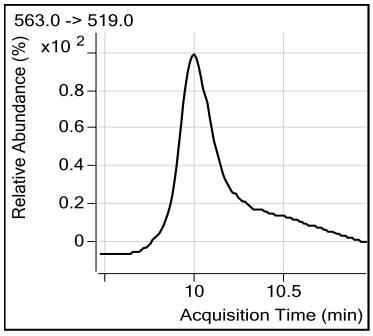


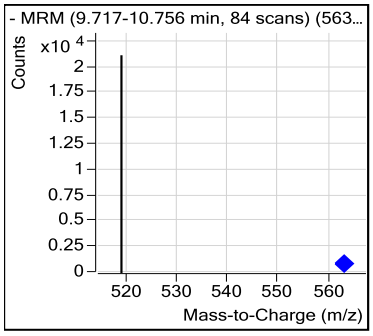




PFUnDA

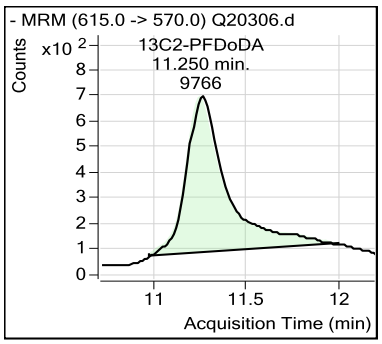


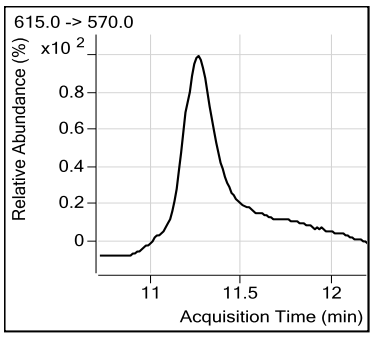


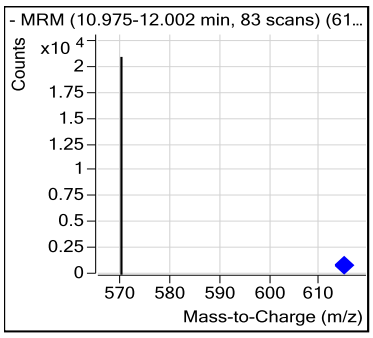


Perfluorinated Compounds by LC/MS/MS.

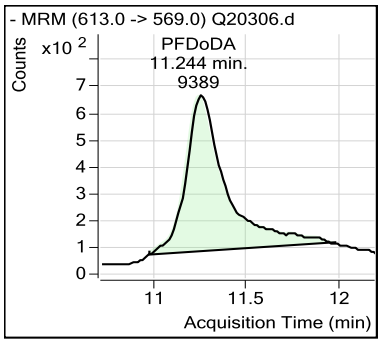
13C2-PFDoDA

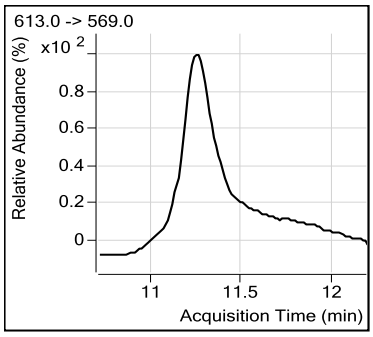


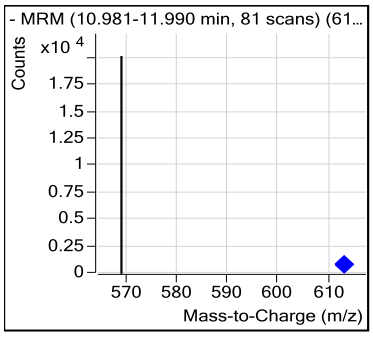




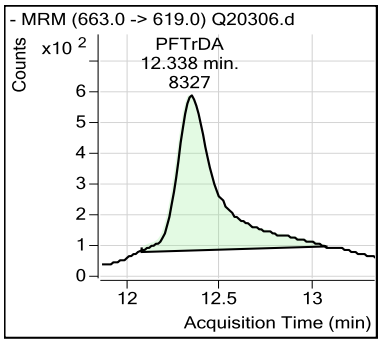
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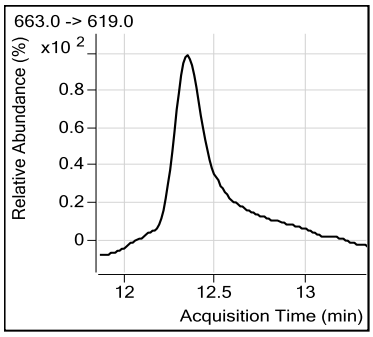


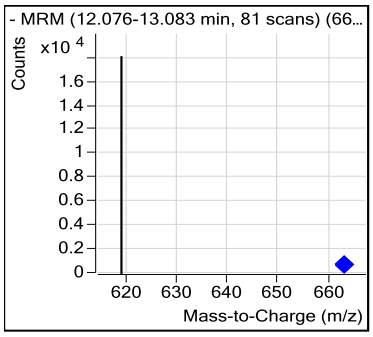




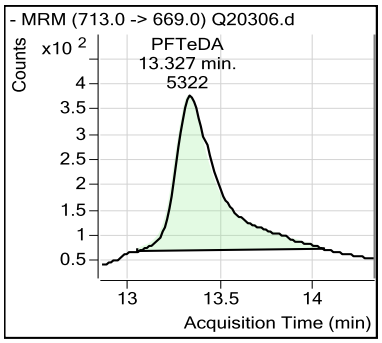
PFTrDA

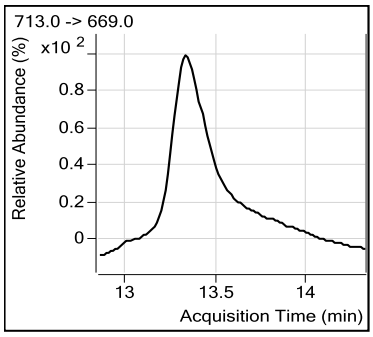


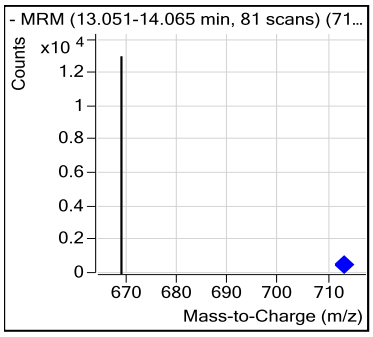




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20307.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 12:19
Sample Name	:	ICV607-20
Vial	:	Vial 3
Sample Info	:	OP59984,SQ607,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

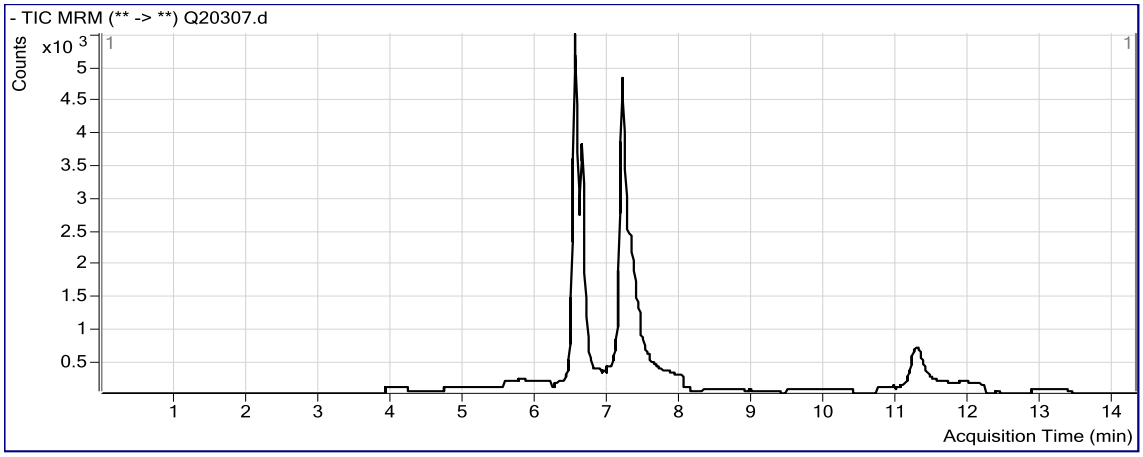
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
13C2-PFOA	6.538	415.0 -> 370.0	28245	20.000	µg/L	0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	9132	40.000	µg/L	0.000
13C4-PFOS	7.189	503.0 -> 80.0	14748	20.000	µg/L	0.000
13C2-PFDoDA	11.250	615.0 -> 570.0	9974	20.000	µg/L	-0.063
System Monitoring Compounds						
d5-EtFOSAA	7.308	589.0 -> 419.0	0	0.00	µg/L	0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 0.00%			
Target Compounds						**Qvalue**
PFOSA	6.637	498.0 -> 78.0	10610	21.339	µg/L	100
MeFOSAA	7.188	570.0 -> 419.0	9463	44.628	µg/L	100
EtFOSAA	7.310	584.0 -> 419.0	7856	41.454	µg/L	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

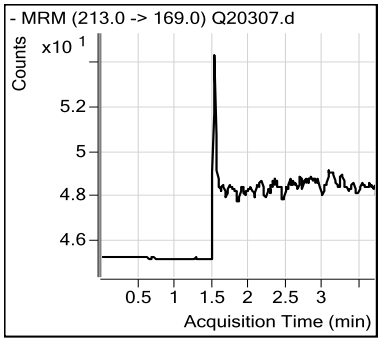
SGS ACCUTEST FA32826

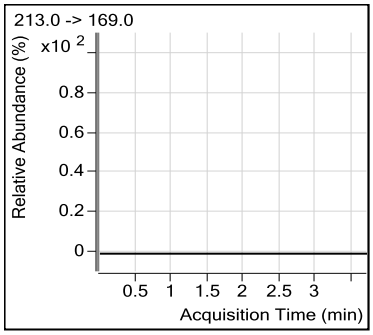
Perfluorinated Compounds by LC/MS/MS.

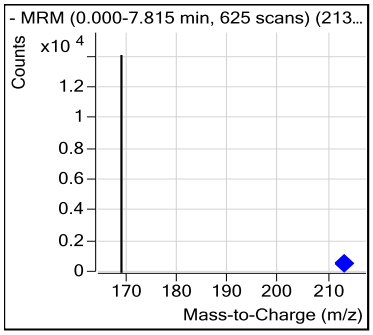
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Last Calib Update	:	2016-04-13 09:28



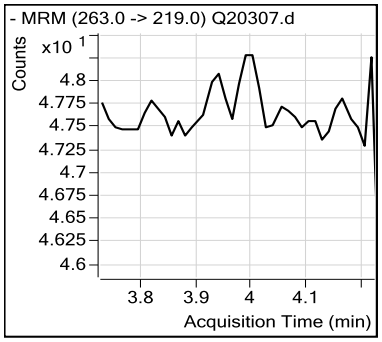
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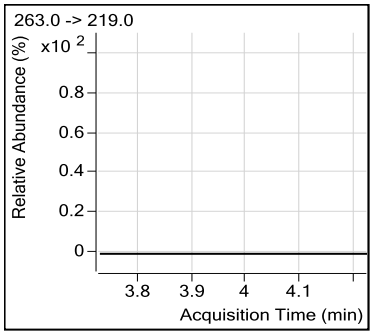


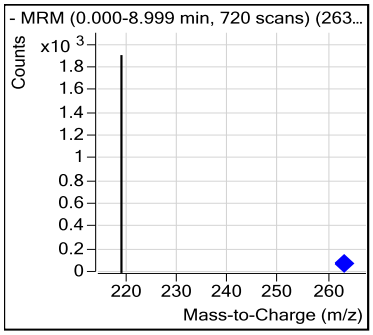




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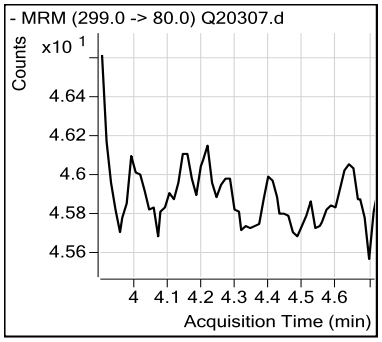


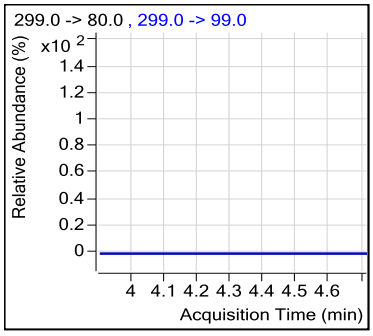


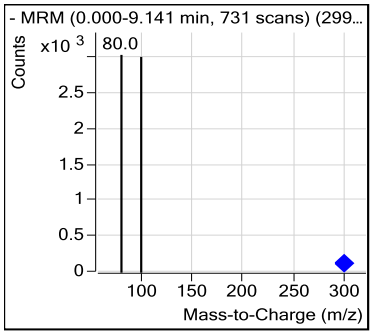


Perfluorinated Compounds by LC/MS/MS.

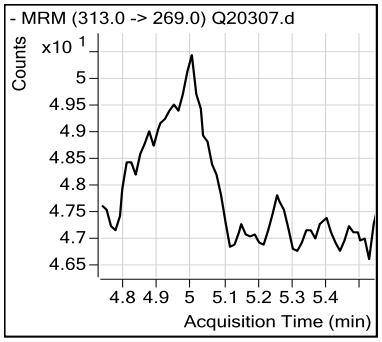
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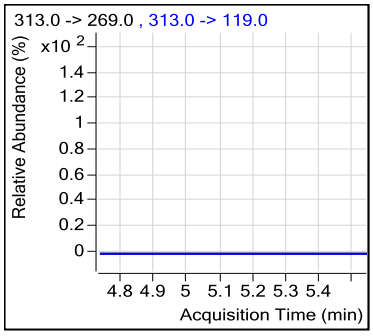


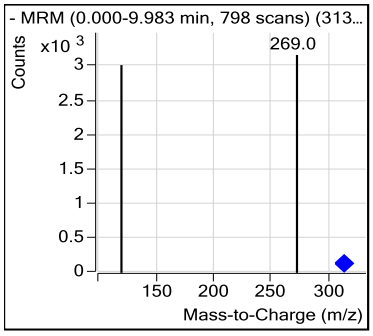




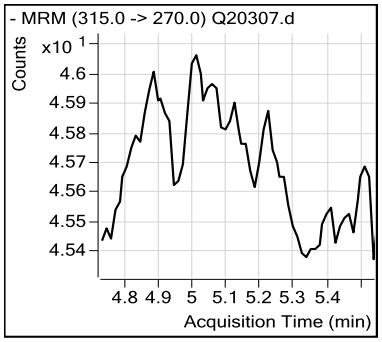
PFHxA

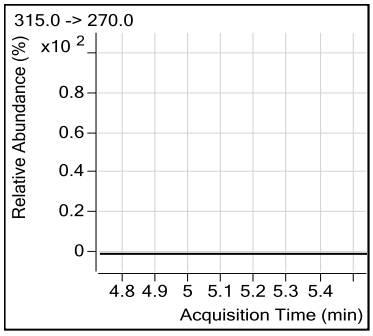


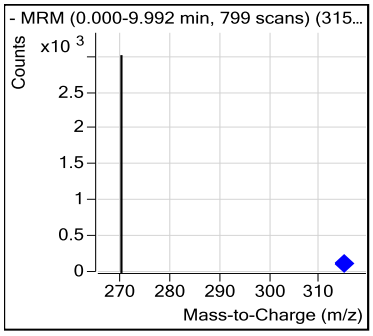




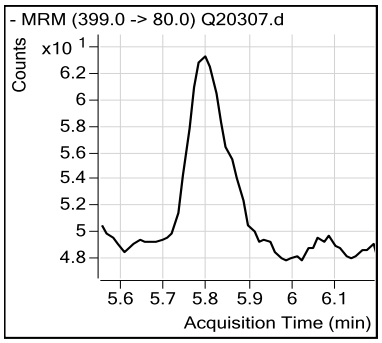
13C2-PFHxA

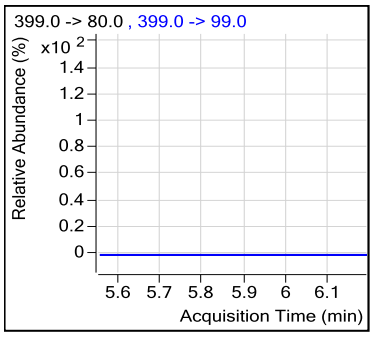


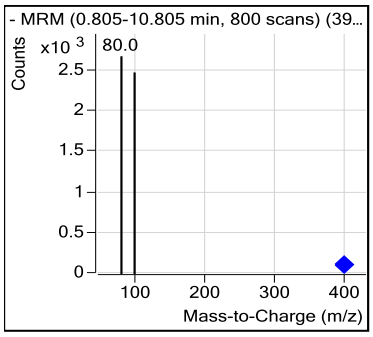




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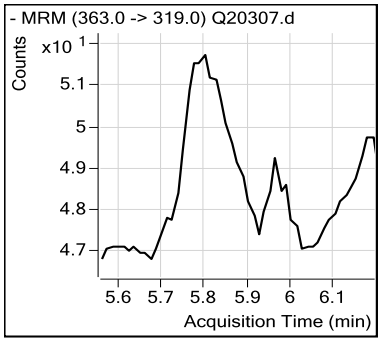


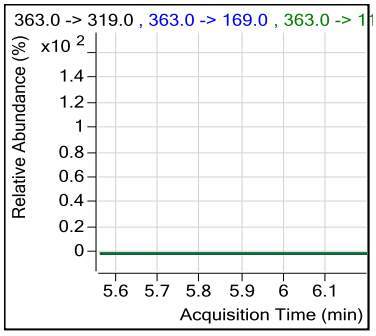


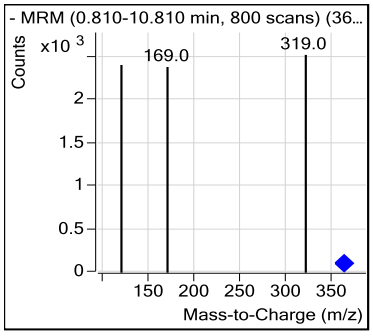


Perfluorinated Compounds by LC/MS/MS.

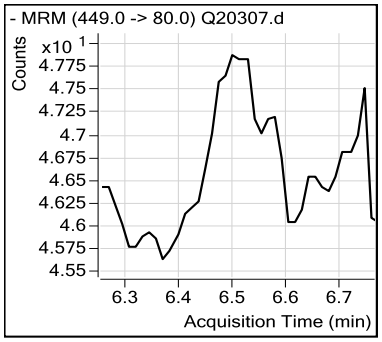
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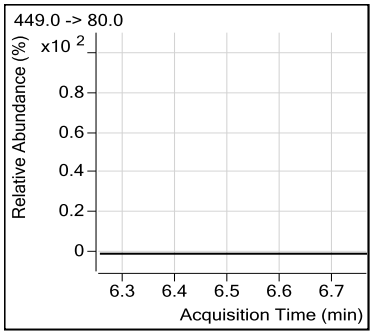


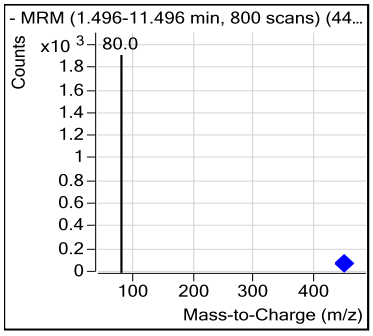




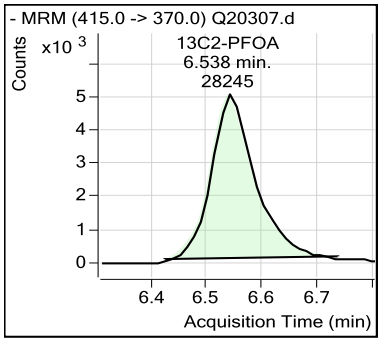
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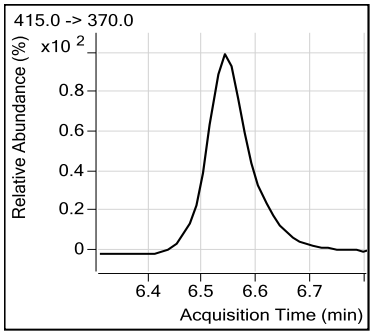


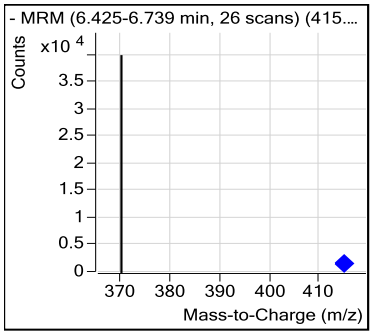




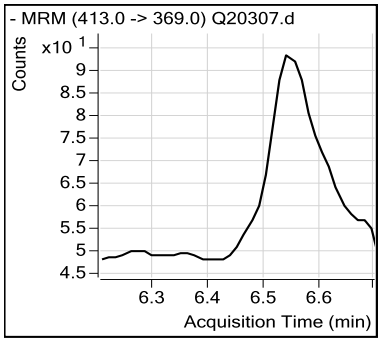
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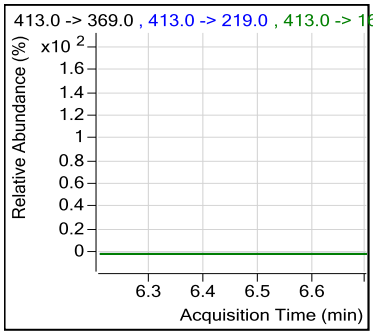


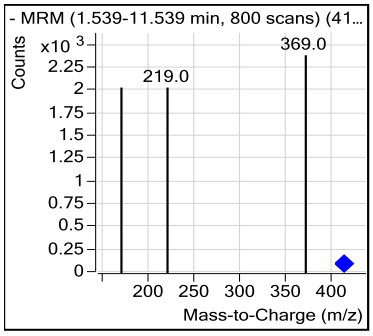




PFOA





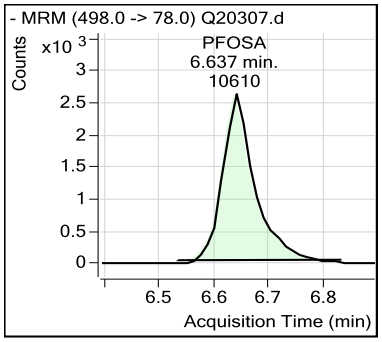


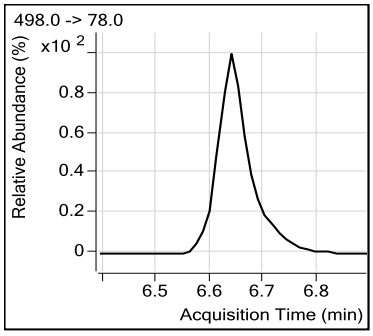
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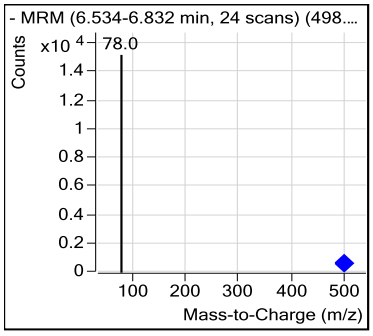
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Perfluorinated Compounds by LC/MS/MS.

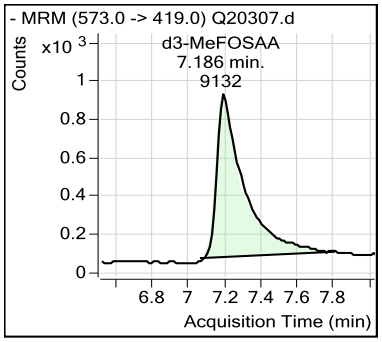
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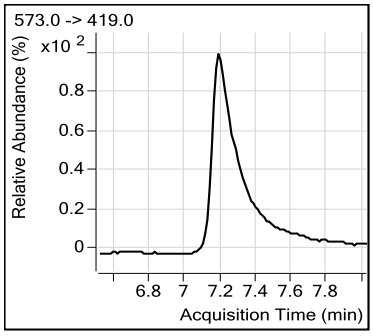


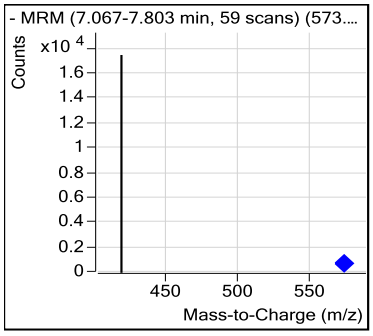




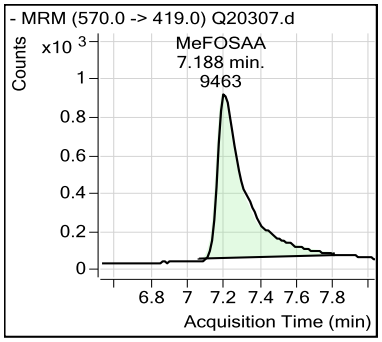
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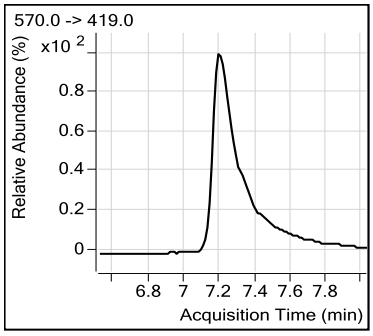


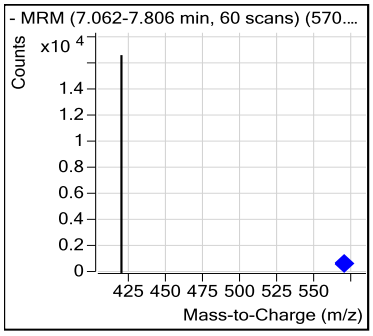




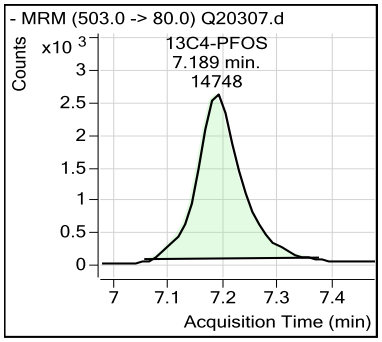
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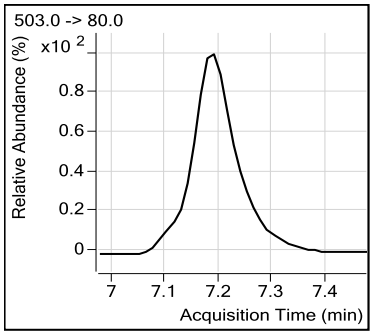


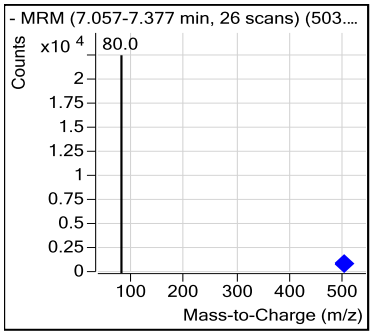




13C4-PFOS

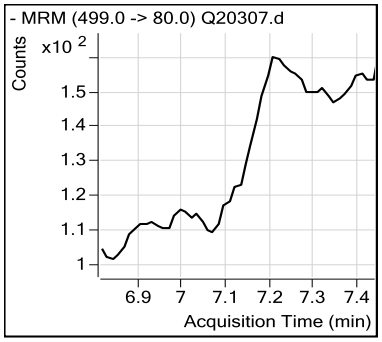


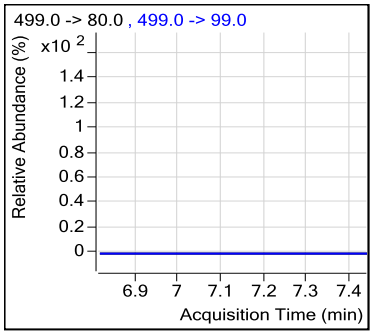


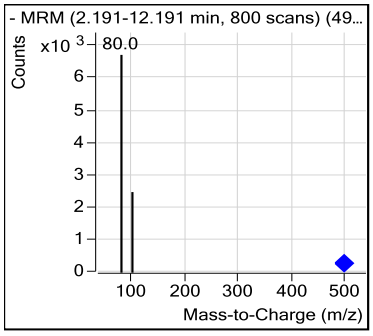


Perfluorinated Compounds by LC/MS/MS.

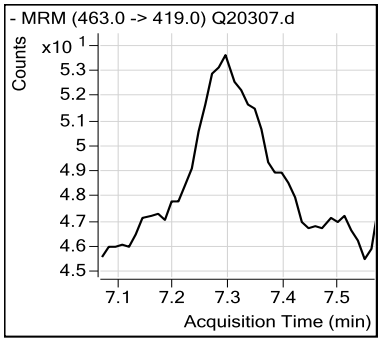
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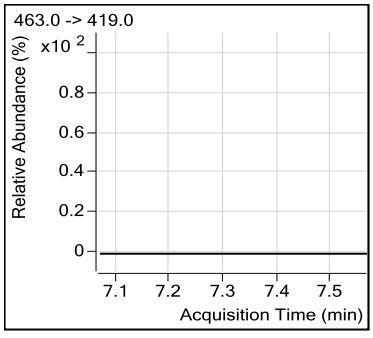


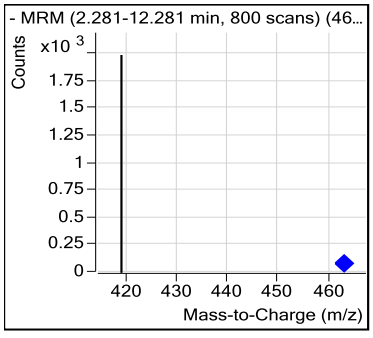




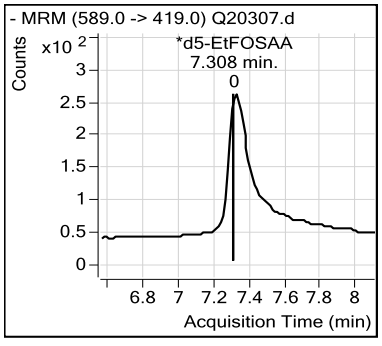
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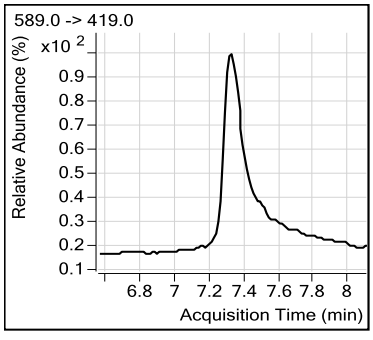


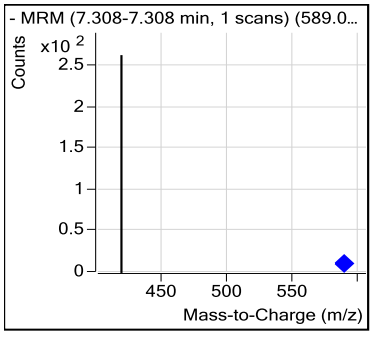




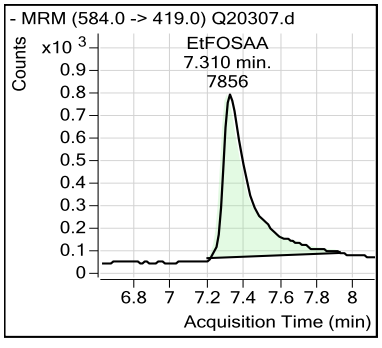
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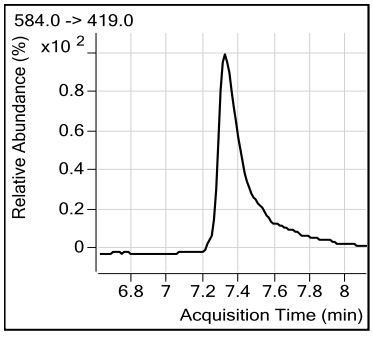


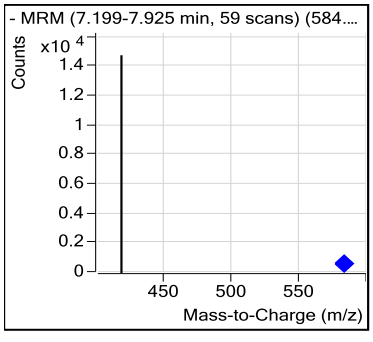




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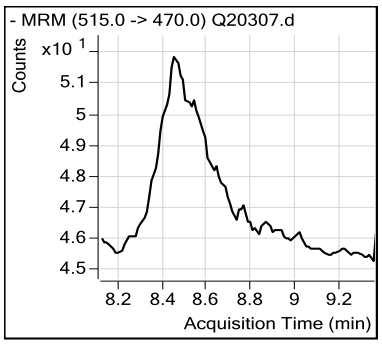


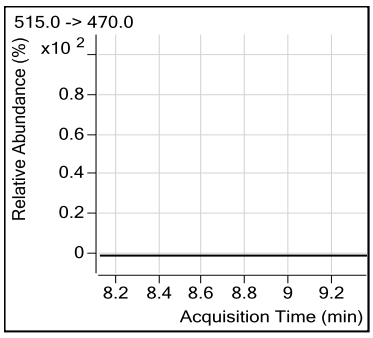


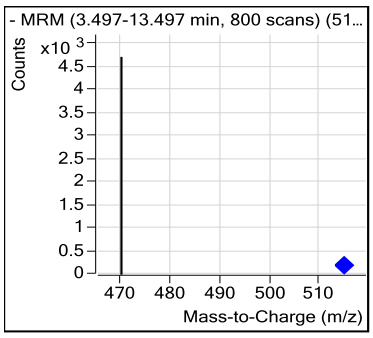


Perfluorinated Compounds by LC/MS/MS.

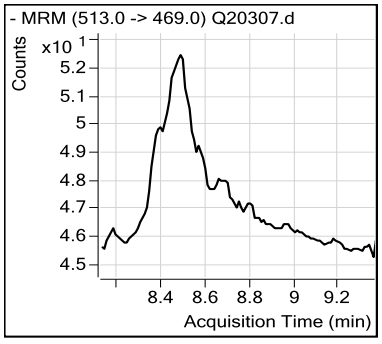
13C2-PFDA

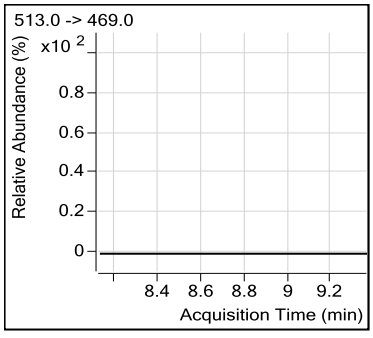


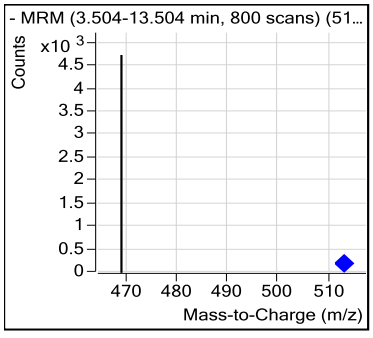




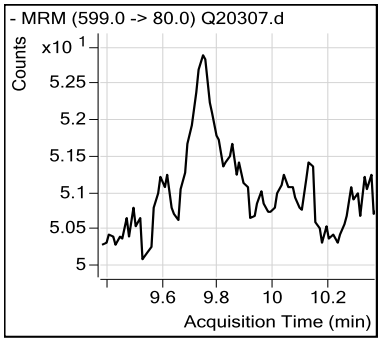
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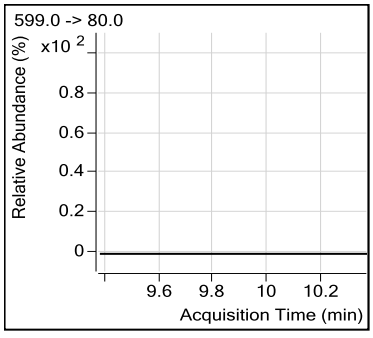


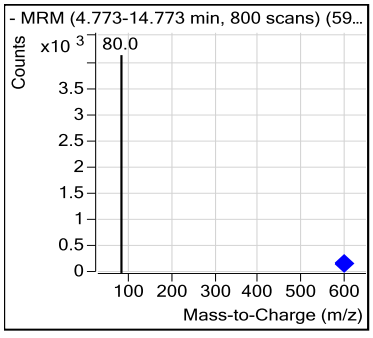




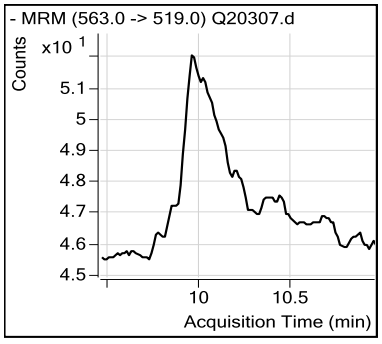
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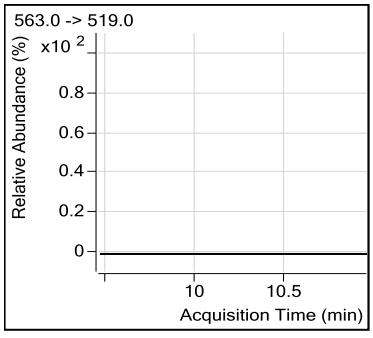


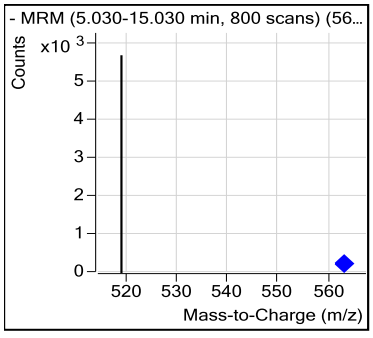




PFUnDA

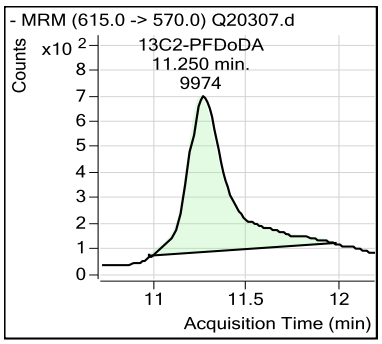


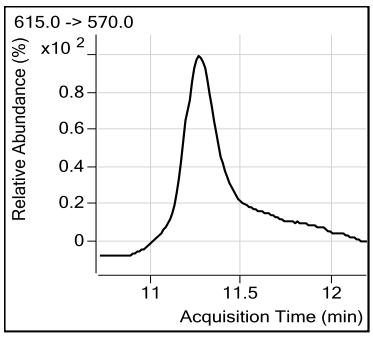


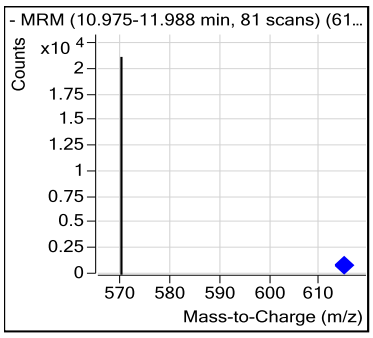


Perfluorinated Compounds by LC/MS/MS.

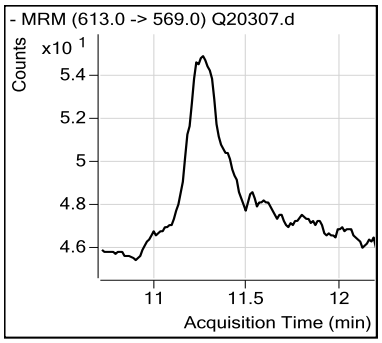
13C2-PFDoDA

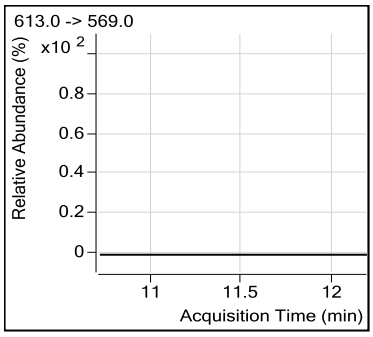


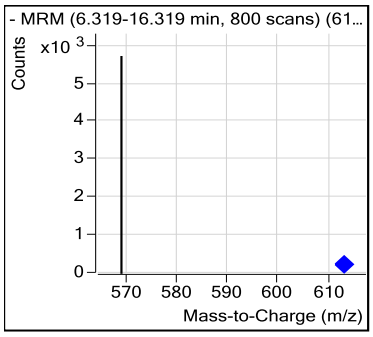




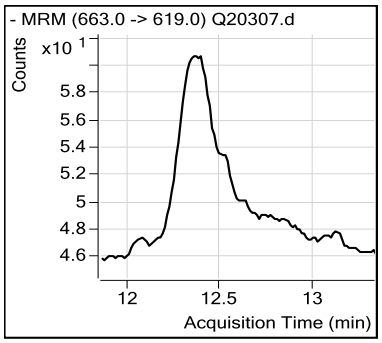
PFDoDA

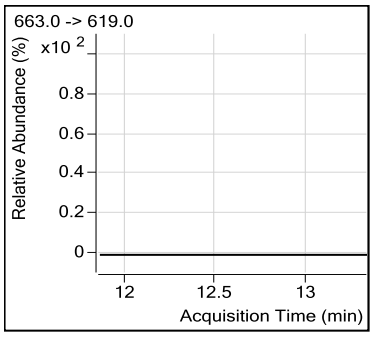


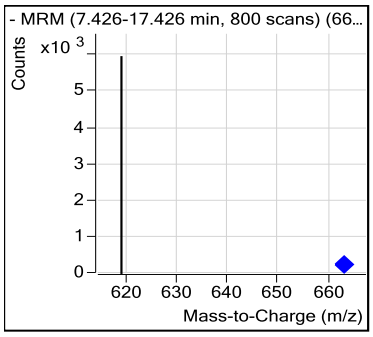




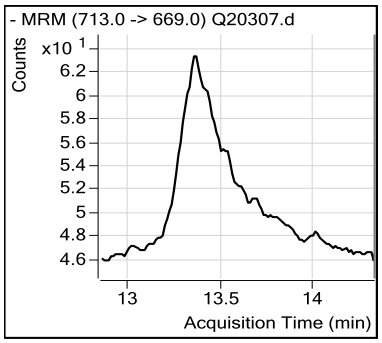
PFTrDA

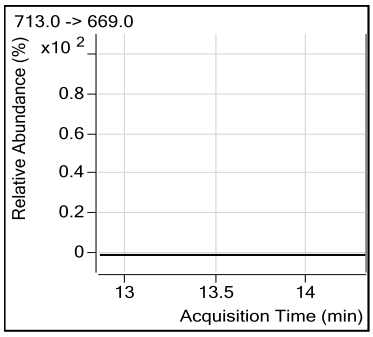


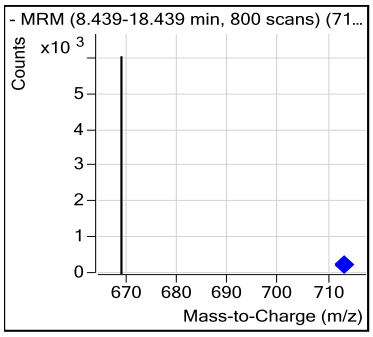




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

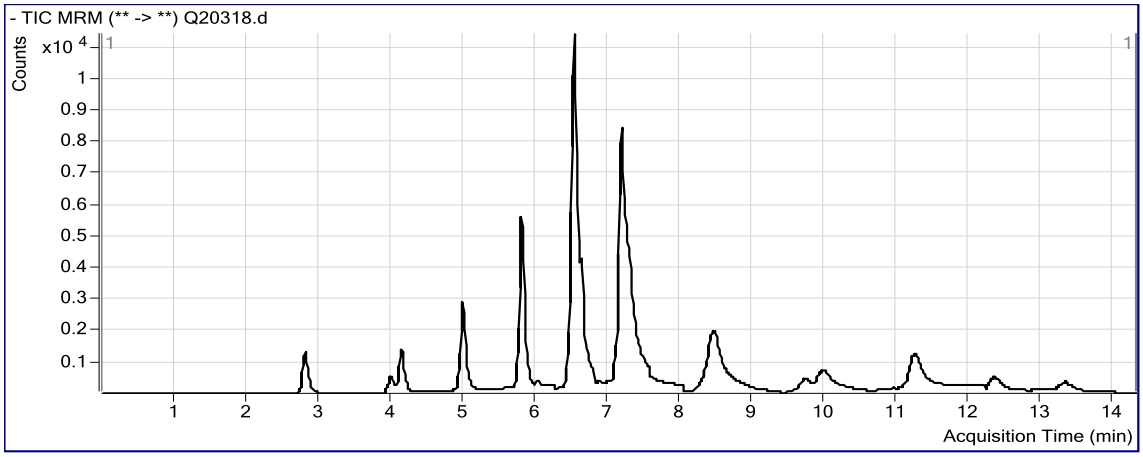
Data File	:	Q20318.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 16:28
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ608,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	25932	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	9552	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	13942	20.000	µg/L		-0.012
13C2-PFDoDA	11.225	615.0 -> 570.0	9473	20.000	µg/L		-0.087
System Monitoring Compounds							
13C2-PFHxA	4.979	315.0 -> 270.0	7280	21.81	µg/L		-0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 109.05%				
d5-EtFOSAA	7.296	589.0 -> 419.0	6016	31.41	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 78.51%				
13C2-PFDA	8.447	515.0 -> 470.0	15467	19.40	µg/L		-0.050
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 97.00%				
Target Compounds							**Qvalue**
PFBA	2.802	213.0 -> 169.0	7310	18.629	µg/L		100
PFPeA	3.986	263.0 -> 219.0	2263	18.826	µg/L		100
PFBS	4.128	299.0 -> 80.0	4232	17.991	µg/L		94
PFHxA	4.983	313.0 -> 269.0	7236	21.728	µg/L		98
PFHxS	5.793	399.0 -> 80.0	7786	18.964	µg/L		86
PFHpA	5.798	363.0 -> 319.0	13275	21.454	µg/L	#	71
PFHpS	6.483	449.0 -> 80.0	8711	19.508	µg/L		100
PFOA	6.527	413.0 -> 369.0	26894	22.286	µg/L		84
PFOSA	6.637	498.0 -> 78.0	9675	18.603	µg/L		100
PFOS	7.178	499.0 -> 80.0	15031	20.877	µg/L		87
MeFOSAA	7.188	570.0 -> 419.0	7457	33.113	µg/L		100
PFNA	7.269	463.0 -> 419.0	12768	21.731	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	6387	31.636	µg/L		100
PFDA	8.441	513.0 -> 469.0	12926	20.714	µg/L		100
PFDS	9.711	599.0 -> 80.0	3874	18.552	µg/L		100
PFUnDA	9.968	563.0 -> 519.0	10165	21.412	µg/L		100
PFDoDA	11.231	613.0 -> 569.0	8930	16.127	µg/L		100
PFTrDA	12.326	663.0 -> 619.0	8011	20.943	µg/L		100
PFTeDA	13.314	713.0 -> 669.0	4843	20.431	µg/L		100

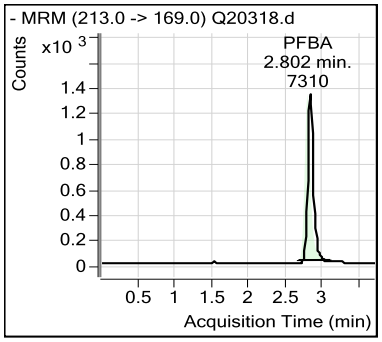
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

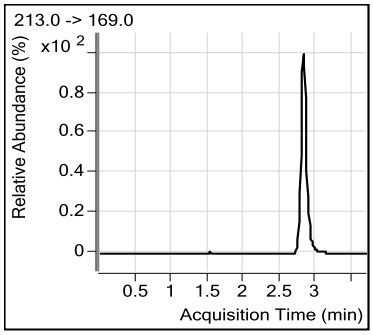
Perfluorinated Compounds by LC/MS/MS.

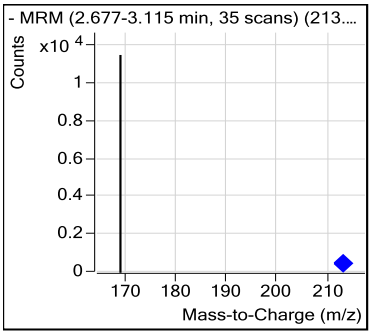
Data File	:	Q20318.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 16:28
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ608,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



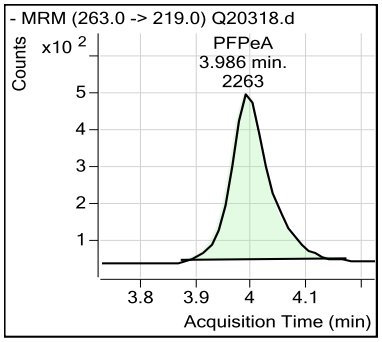
PFBA

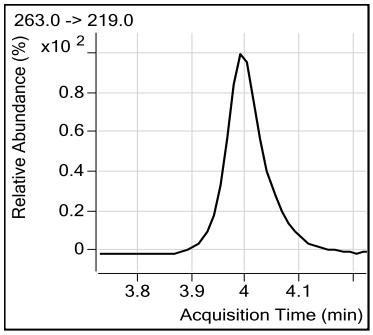


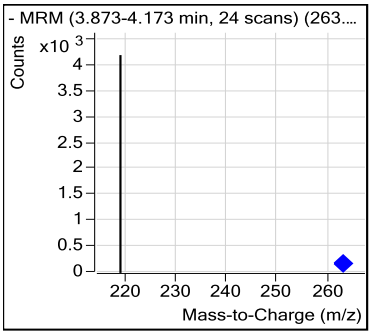




PFPeA

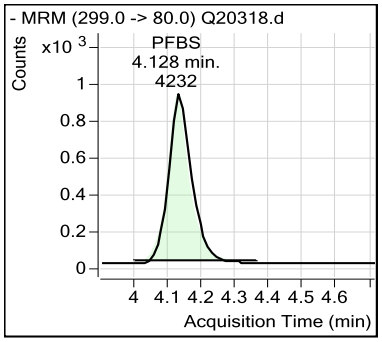


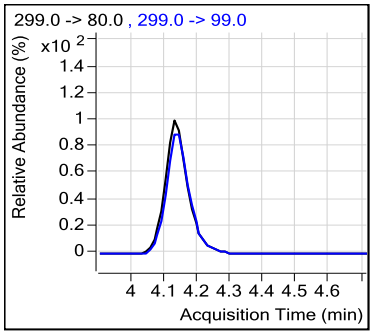


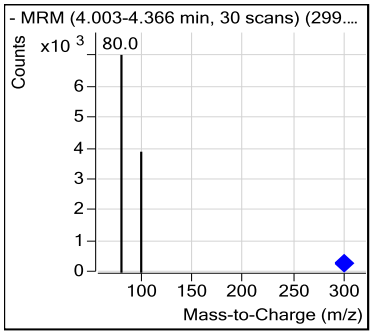


Perfluorinated Compounds by LC/MS/MS.

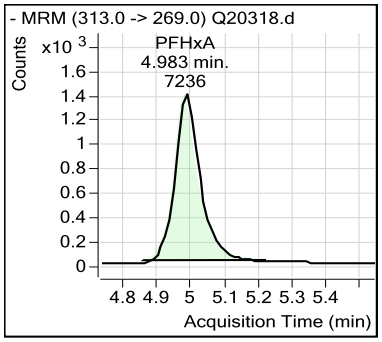
PFBS

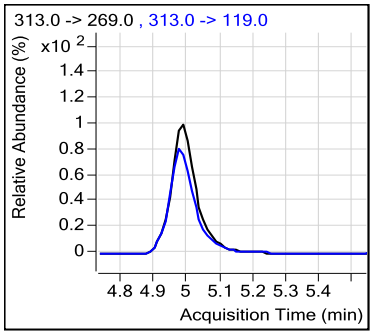


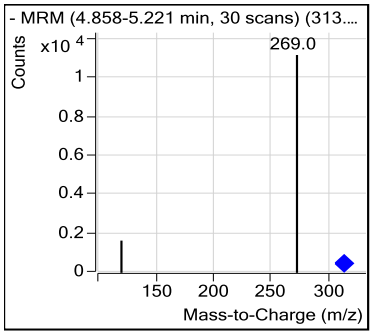




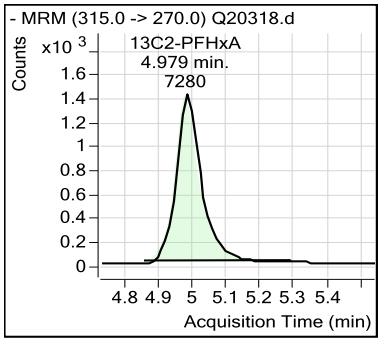
PFHxA

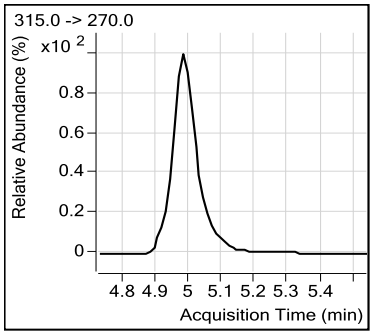


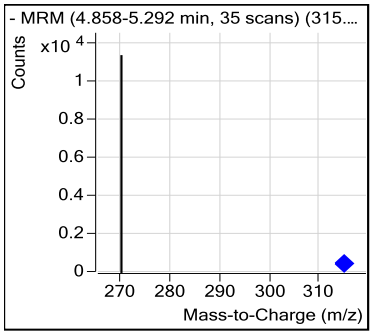




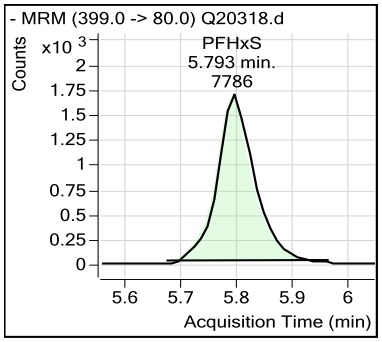
13C2-PFHxA

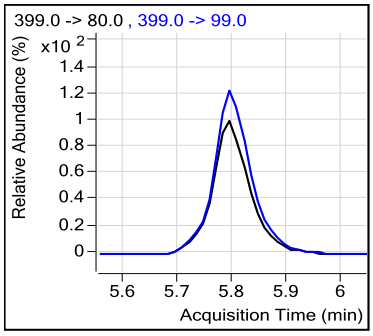


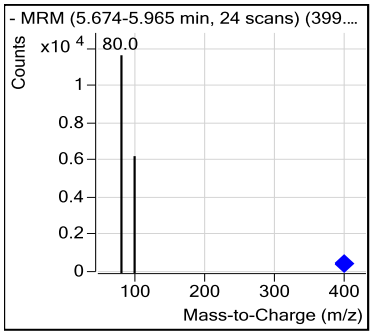




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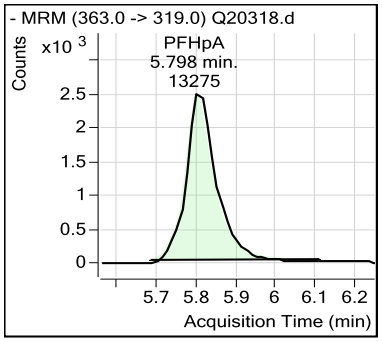


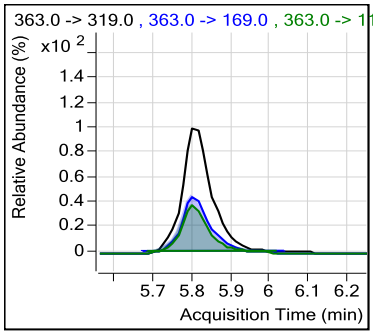


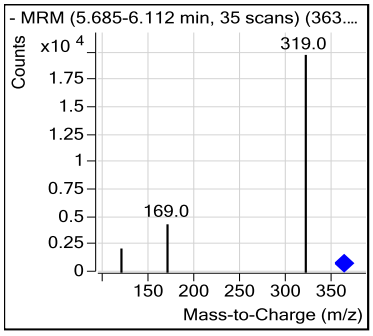


Perfluorinated Compounds by LC/MS/MS.

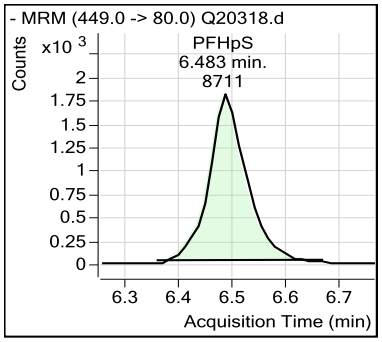
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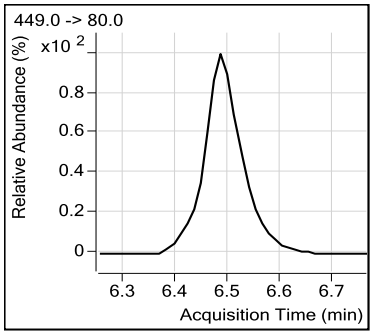


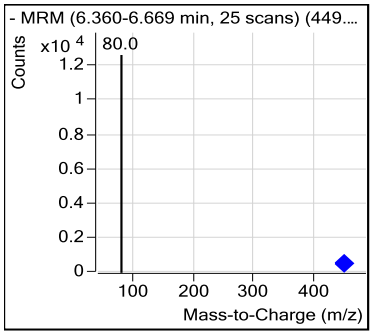




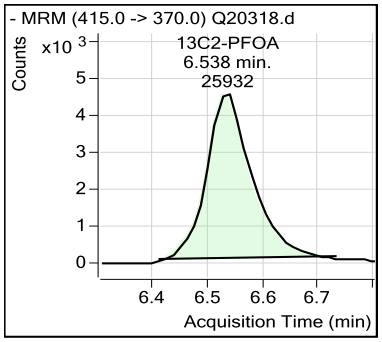
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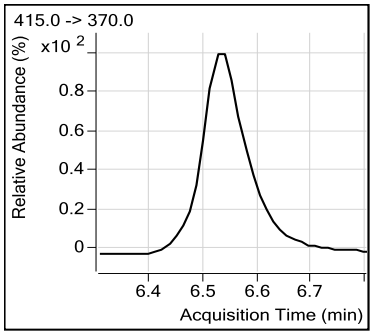


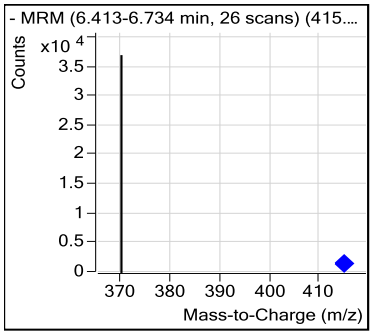




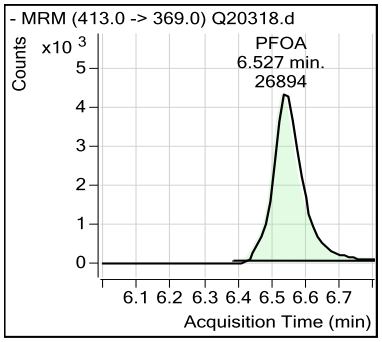
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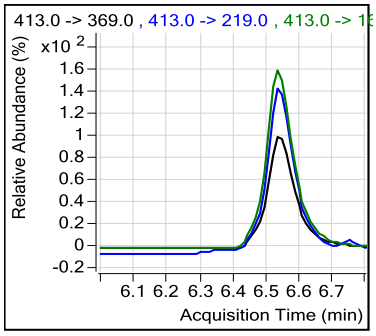


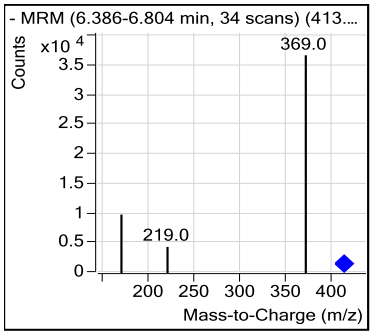




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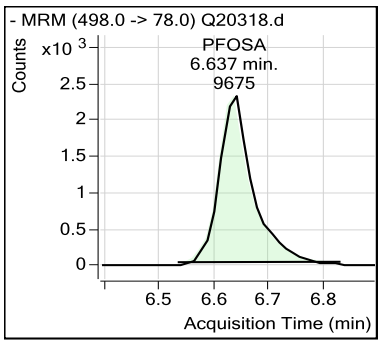


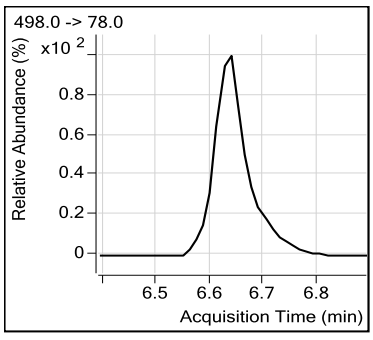


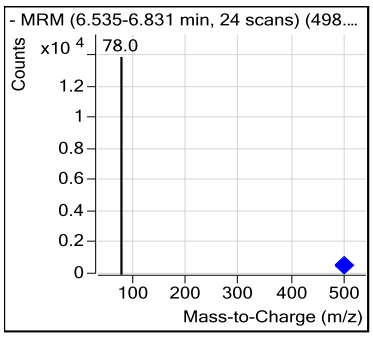


Perfluorinated Compounds by LC/MS/MS.

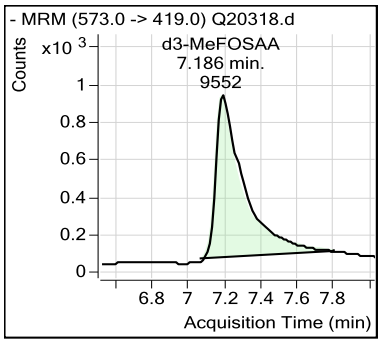
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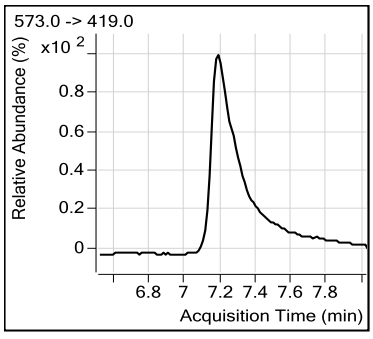


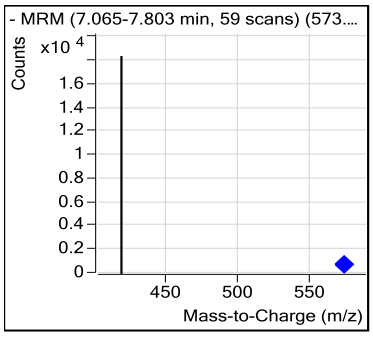




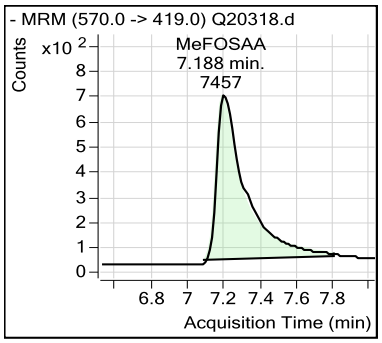
d3-MeFOSAA

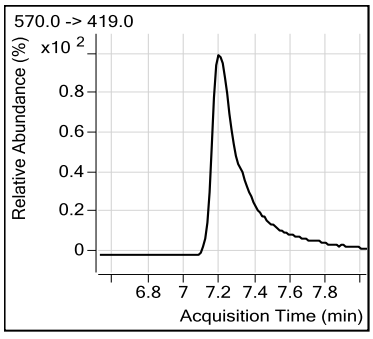


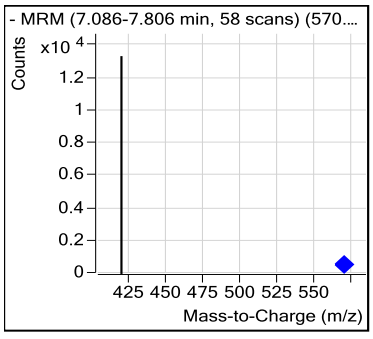




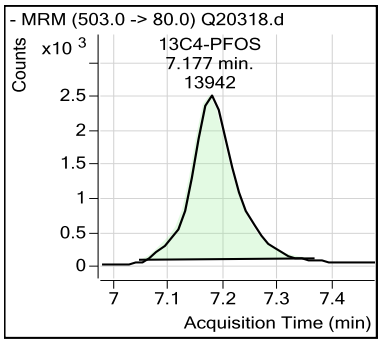
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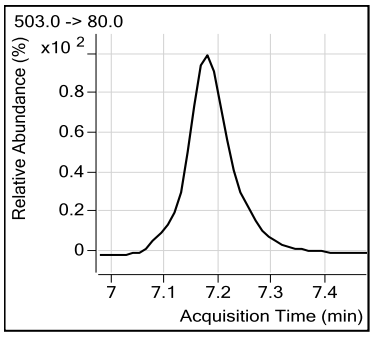


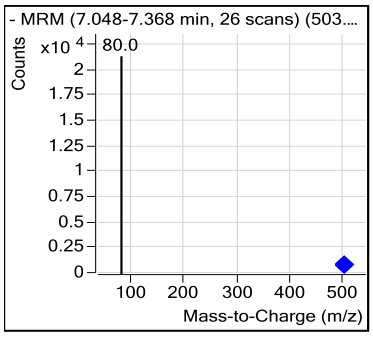




13C4-PFOS

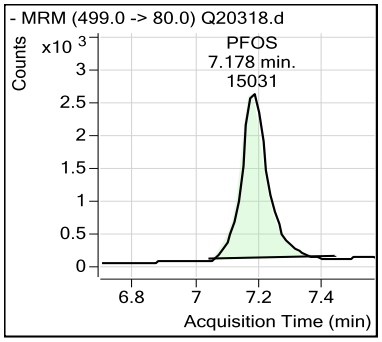


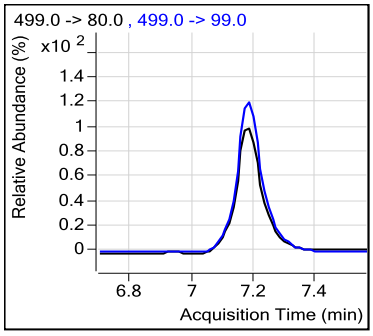


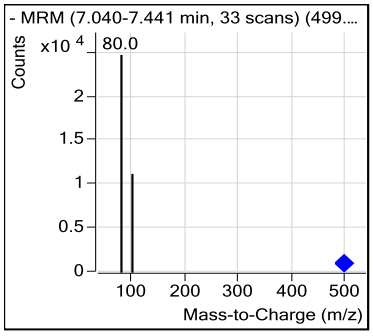


Perfluorinated Compounds by LC/MS/MS.

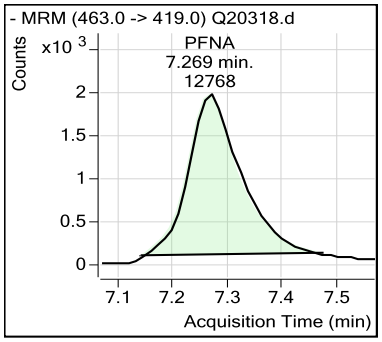
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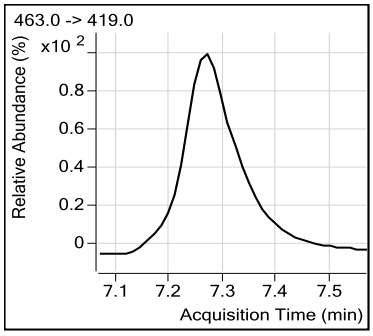


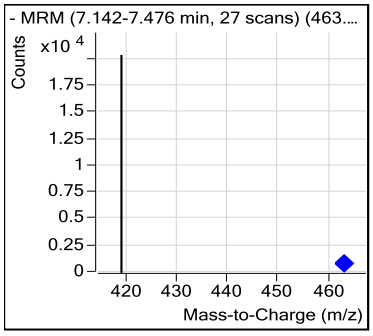




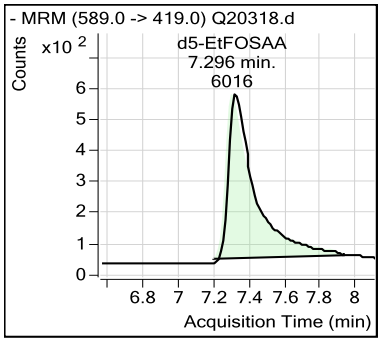
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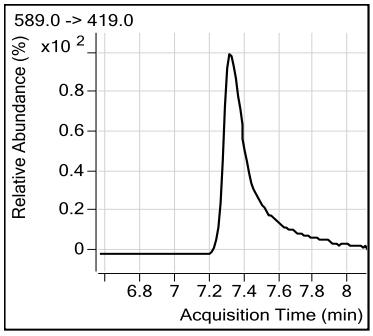


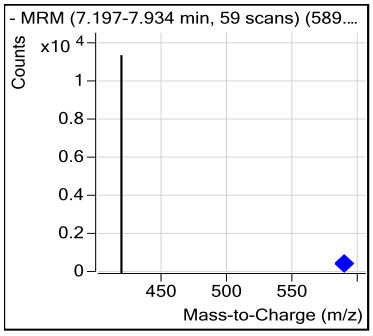




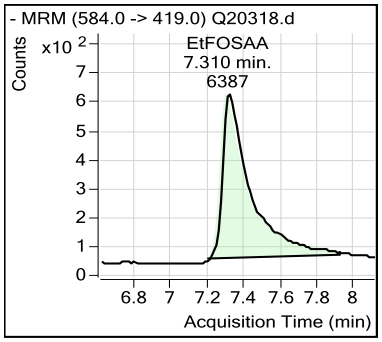
d5-EtFOSAA

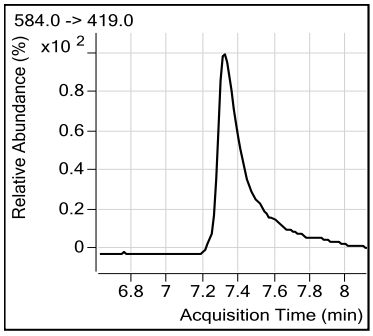


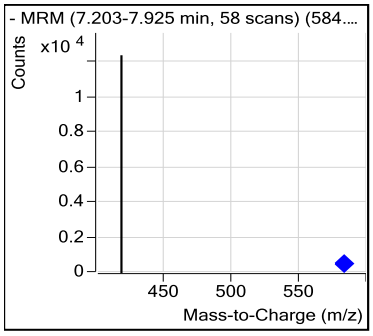




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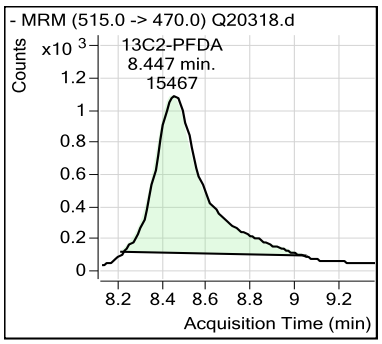


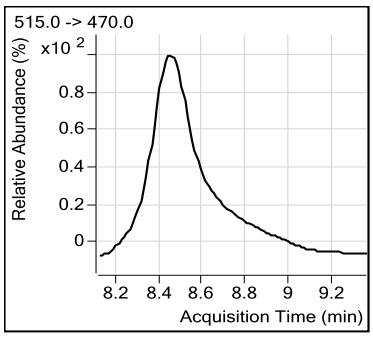


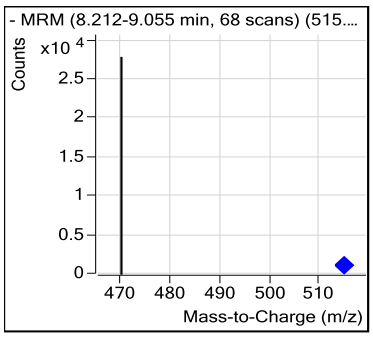


Perfluorinated Compounds by LC/MS/MS.

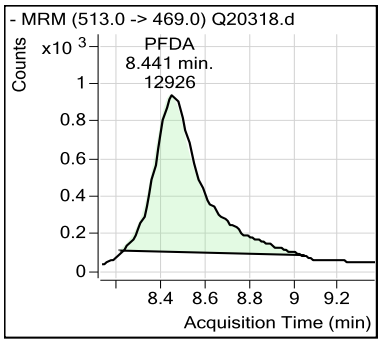
13C2-PFDA

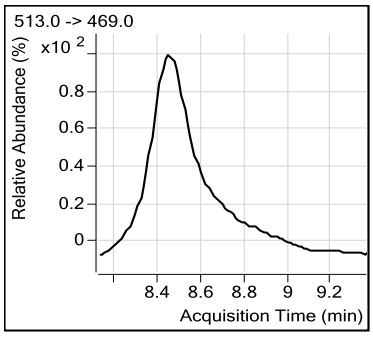


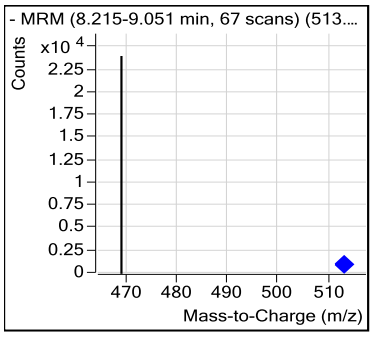




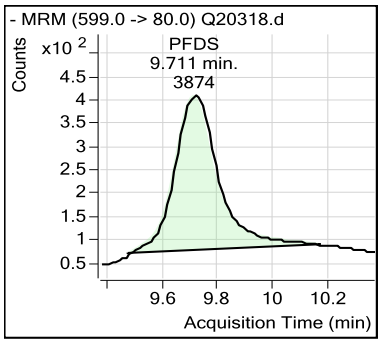
PFDA

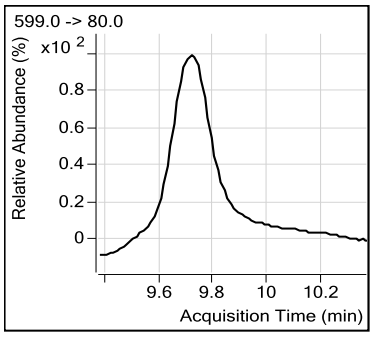


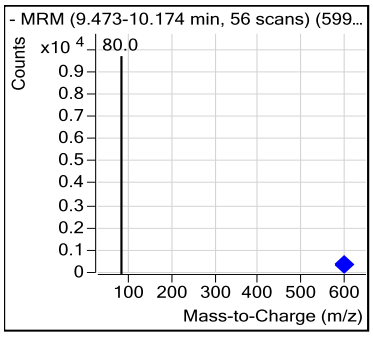




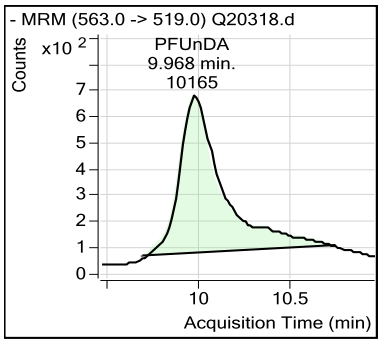
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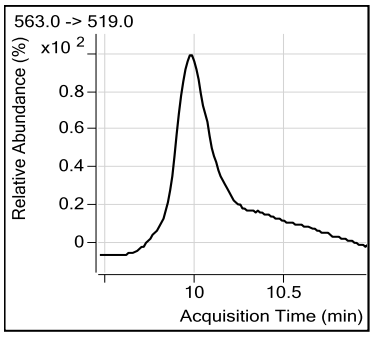


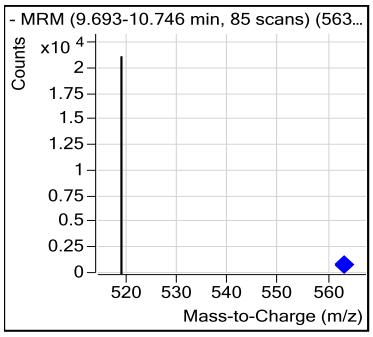




PFUnDA

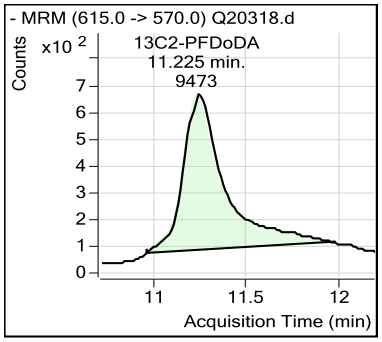


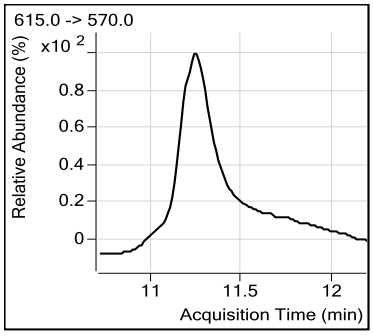


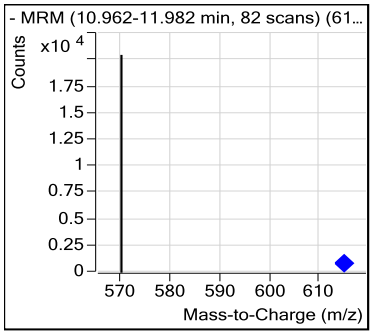


Perfluorinated Compounds by LC/MS/MS.

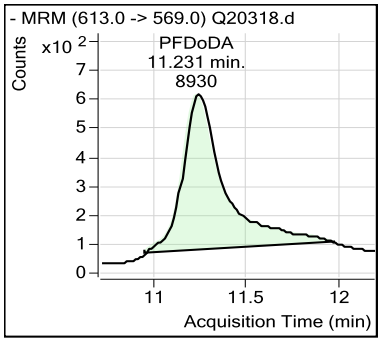
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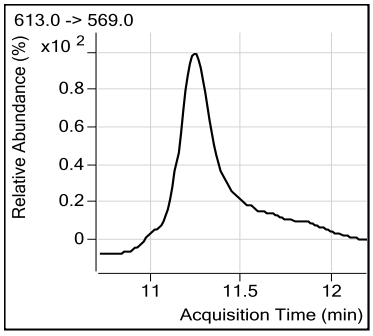


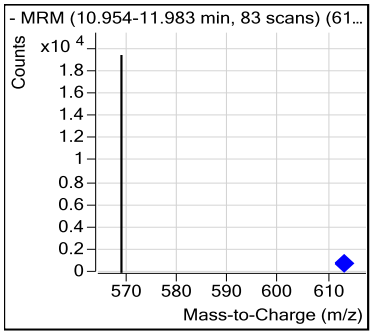




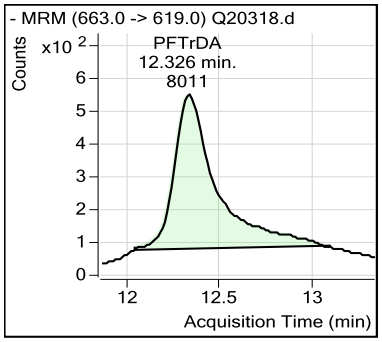
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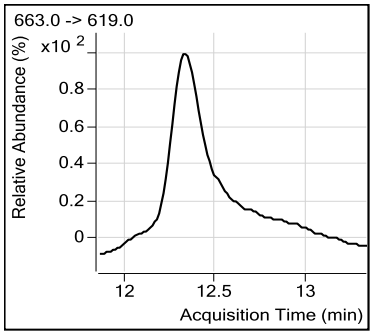


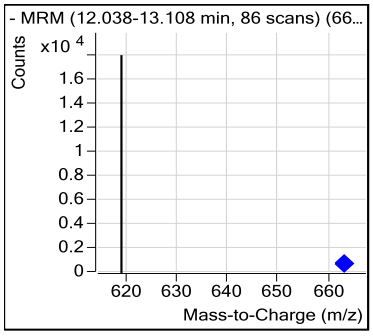




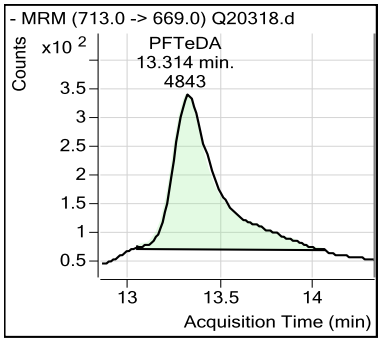
PFTrDA

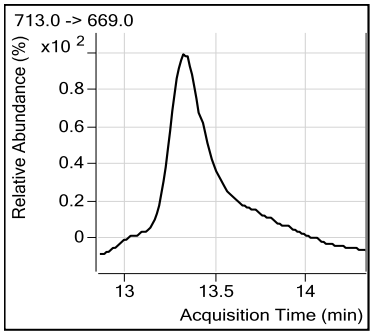


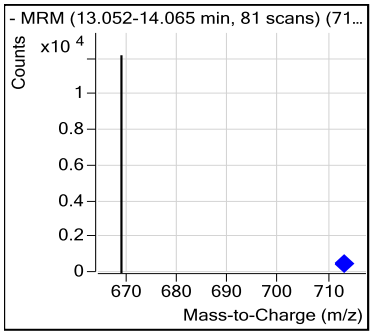




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 20:43
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ608,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

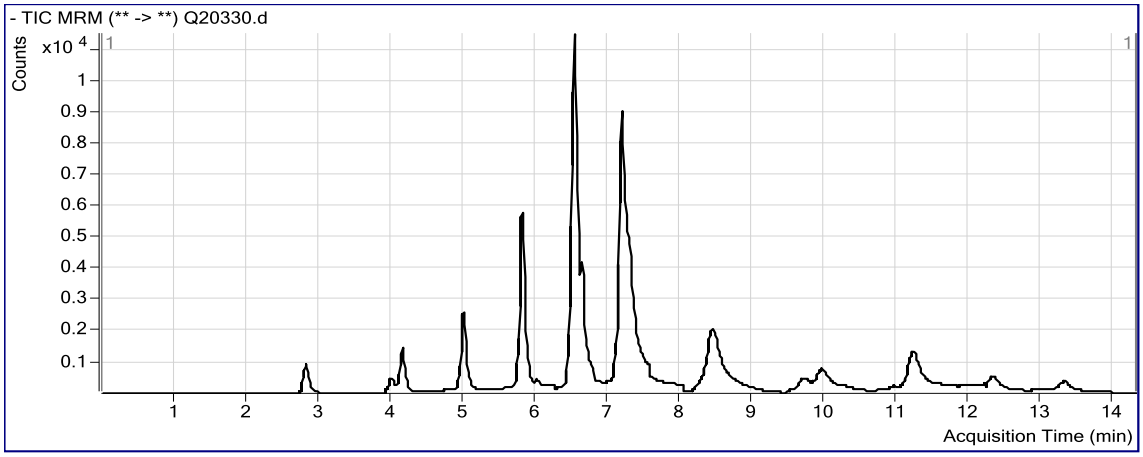
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.538	415.0 -> 370.0	26071	20.000	µg/L		0.000
d3-MeFOSAA	7.186	573.0 -> 419.0	10180	40.000	µg/L		0.000
13C4-PFOS	7.177	503.0 -> 80.0	14762	20.000	µg/L		-0.012
13C2-PFDoDA	11.212	615.0 -> 570.0	9783	20.000	µg/L		-0.100
System Monitoring Compounds							
13C2-PFHxA	4.992	315.0 -> 270.0	6532	19.47	µg/L		0.000
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 97.33%				
d5-EtFOSAA	7.296	589.0 -> 419.0	6353	31.09	µg/L		0.000
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 77.72%				
13C2-PFDA	8.435	515.0 -> 470.0	16003	19.97	µg/L		-0.062
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 99.83%				
Target Compounds							**Qvalue**
PFBA	2.815	213.0 -> 169.0	5154	13.065	µg/L		100
PFPeA	3.999	263.0 -> 219.0	1818	15.038	µg/L		100
PFBS	4.141	299.0 -> 80.0	4357	17.495	µg/L		95
PFHxA	4.983	313.0 -> 269.0	6384	19.069	µg/L		98
PFHxS	5.793	399.0 -> 80.0	8731	20.086	µg/L		86
PFHpA	5.810	363.0 -> 319.0	12993	20.886	µg/L	#	70
PFHpS	6.483	449.0 -> 80.0	9496	20.083	µg/L		100
PFOA	6.539	413.0 -> 369.0	26498	21.842	µg/L		82
PFOSA	6.637	498.0 -> 78.0	9962	17.974	µg/L		100
PFOS	7.178	499.0 -> 80.0	15906	20.865	µg/L		87
MeFOSAA	7.188	570.0 -> 419.0	8011	33.401	µg/L		100
PFNA	7.269	463.0 -> 419.0	12922	21.876	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	7499	35.162	µg/L		100
PFDA	8.429	513.0 -> 469.0	12788	20.385	µg/L		100
PFDS	9.686	599.0 -> 80.0	4153	19.256	µg/L		100
PFUnDA	9.955	563.0 -> 519.0	10195	20.795	µg/L		100
PFDoDA	11.206	613.0 -> 569.0	9190	16.072	µg/L		100
PFTrDA	12.301	663.0 -> 619.0	7926	20.065	µg/L		100
PFTeDA	13.302	713.0 -> 669.0	4761	19.451	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

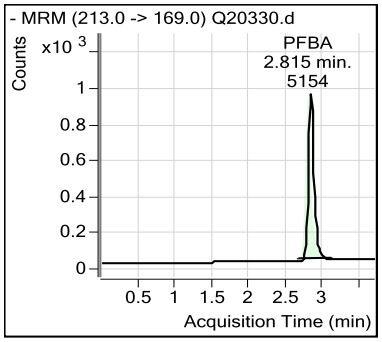
SGS ACCUTEST FA32826

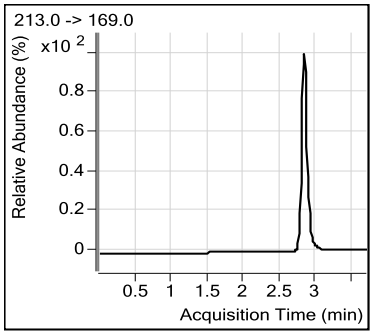
Perfluorinated Compounds by LC/MS/MS.

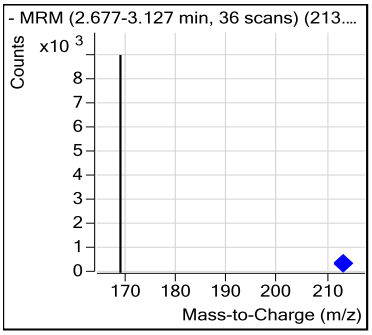
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Acquisition date	:	2016-04-13 20:43
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Vial	:	Vial 2
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Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



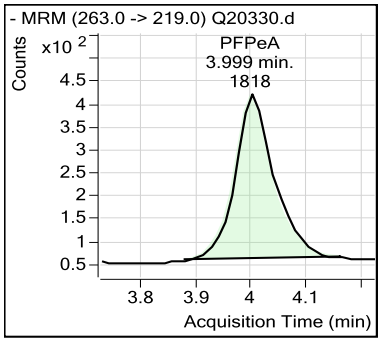
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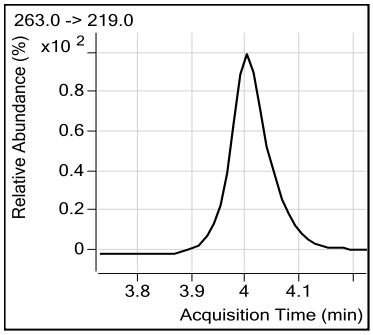


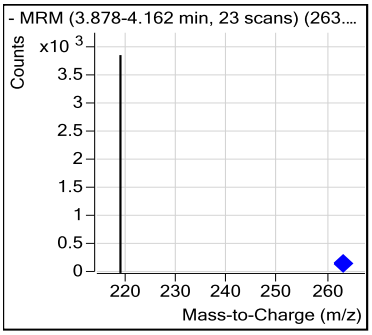




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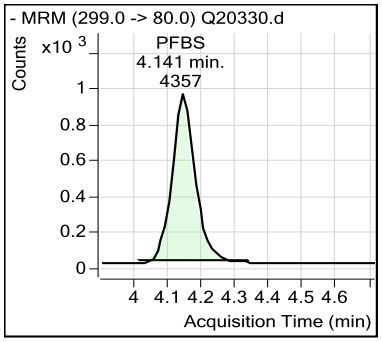


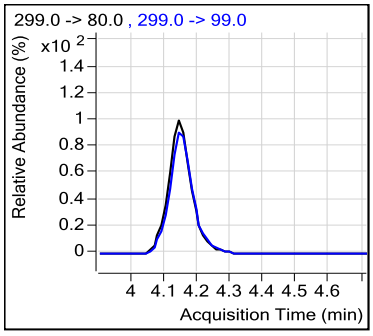


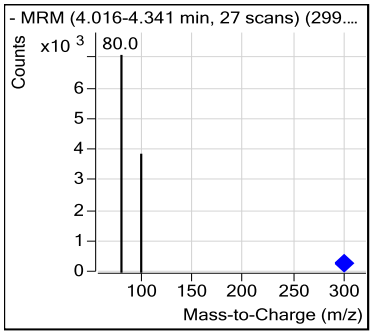


Perfluorinated Compounds by LC/MS/MS.

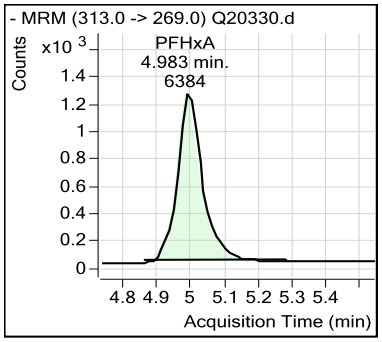
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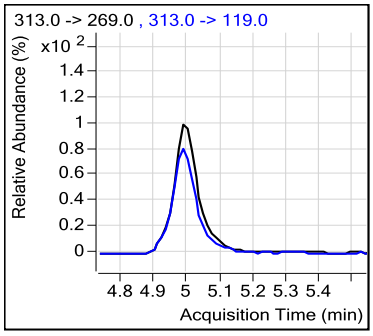


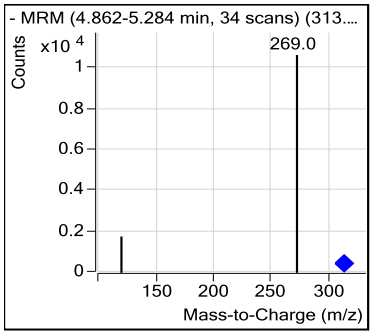




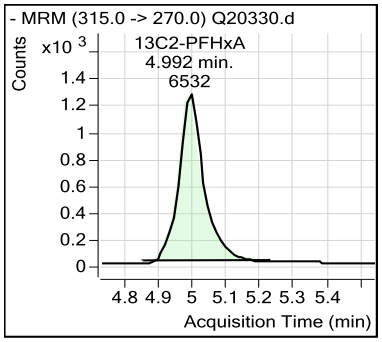
PFHxA

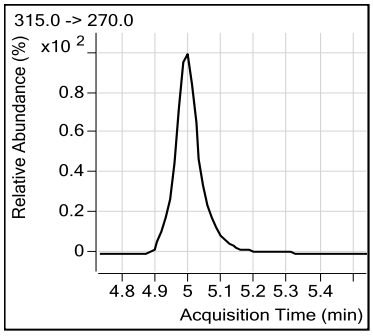


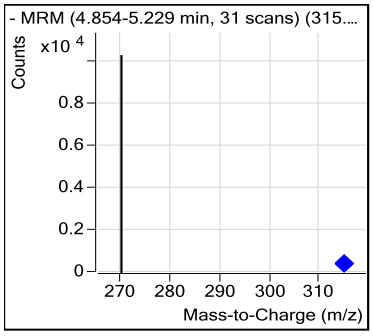




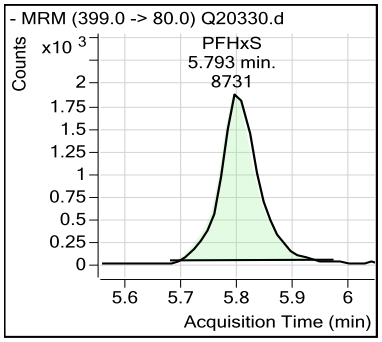
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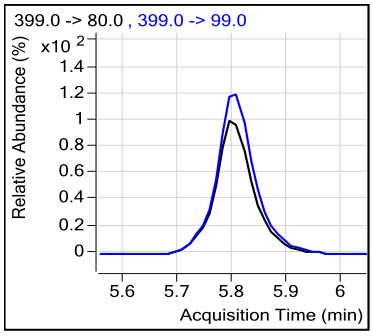


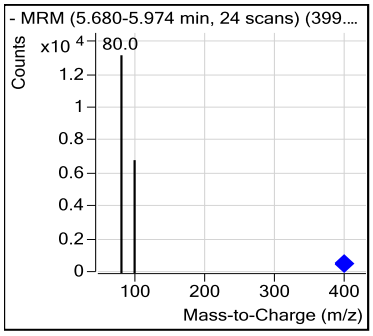




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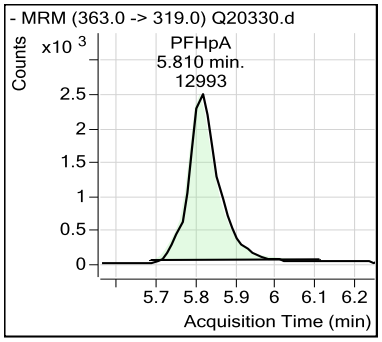


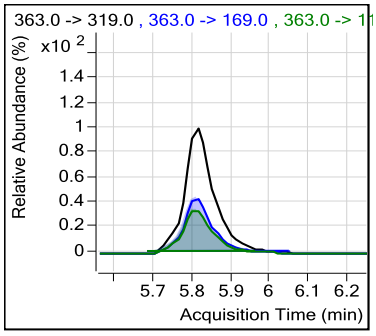


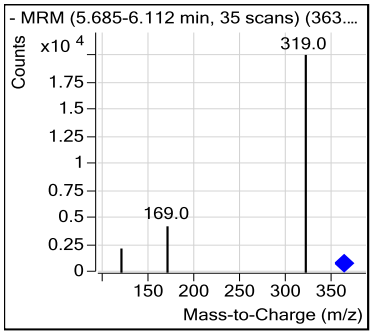


Perfluorinated Compounds by LC/MS/MS.

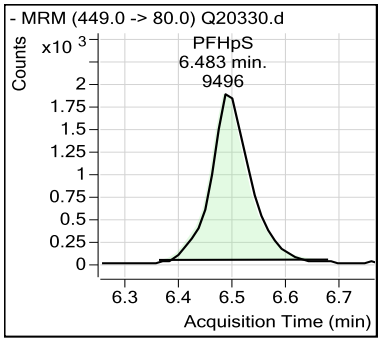
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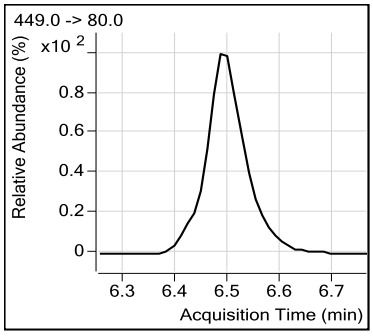


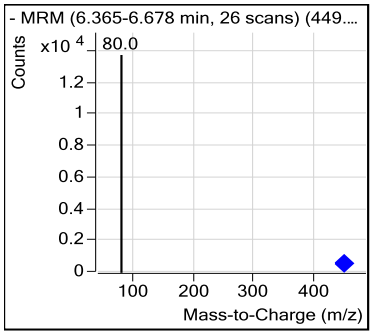




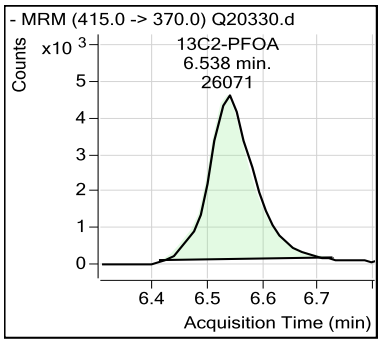
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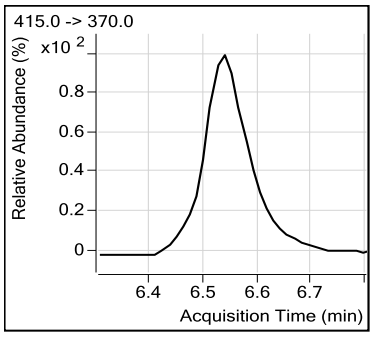


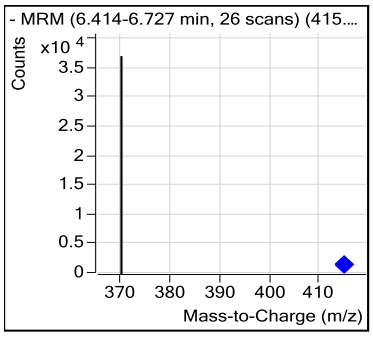




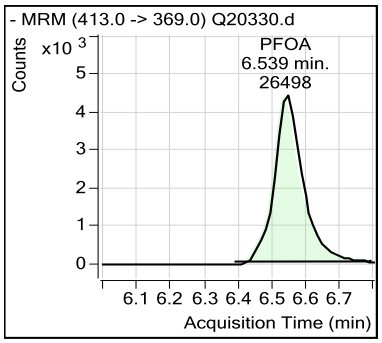
13C2-PFOA

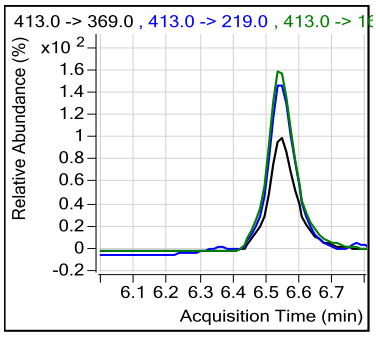


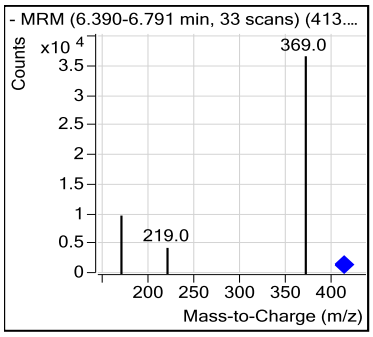




PFOA



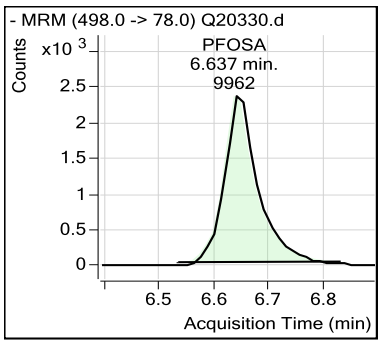


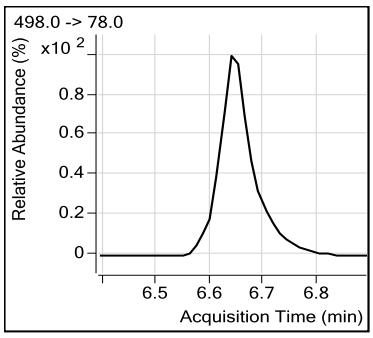


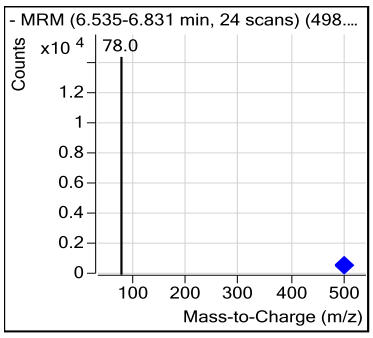
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

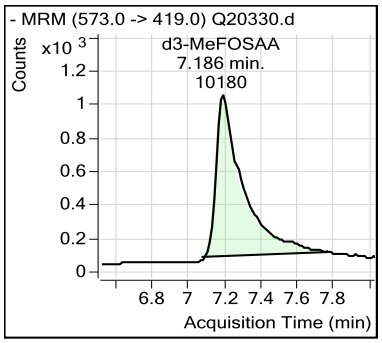
PFOSA

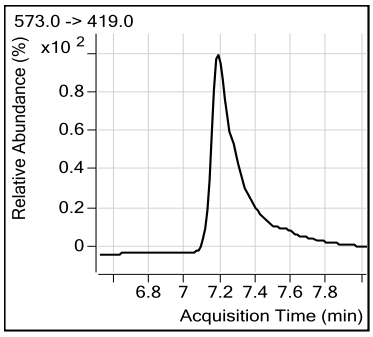


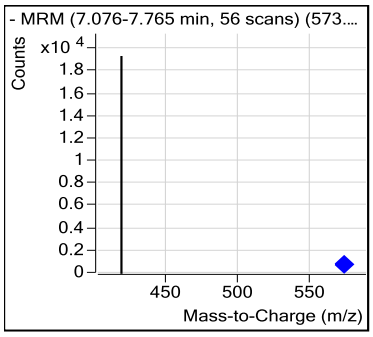




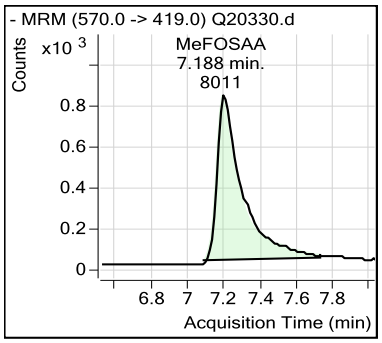
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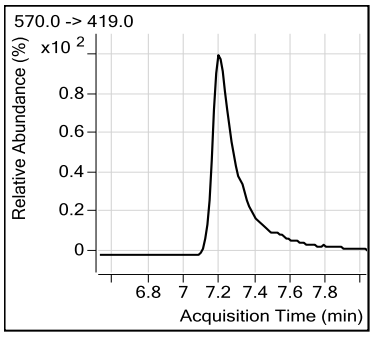


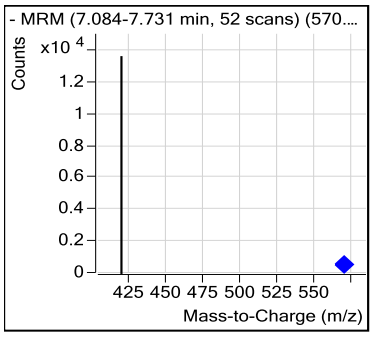




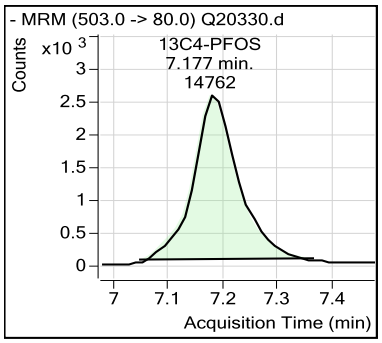
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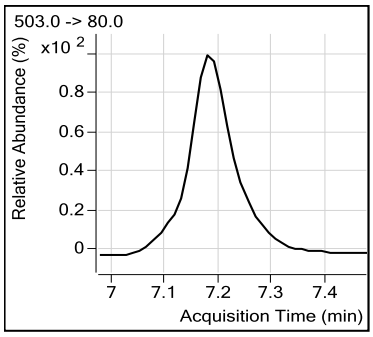


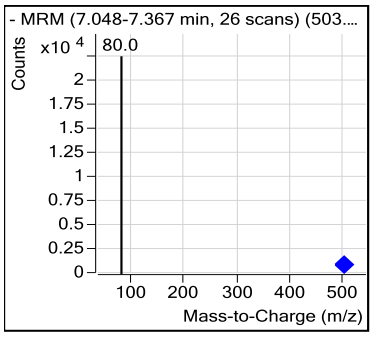




13C4-PFOS

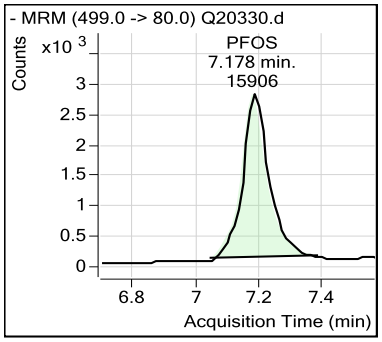


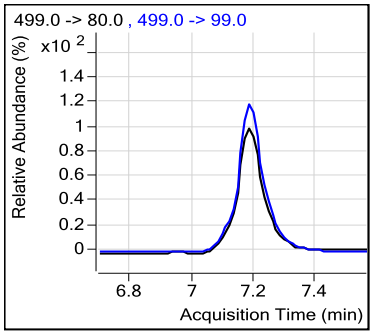


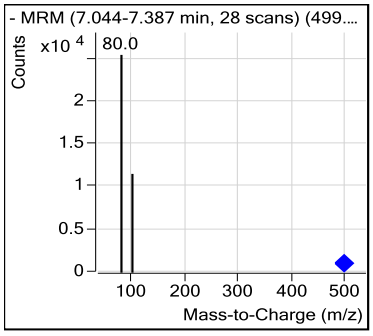


Perfluorinated Compounds by LC/MS/MS.

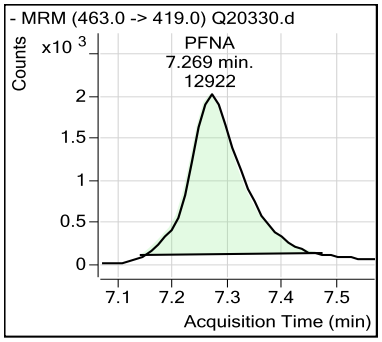
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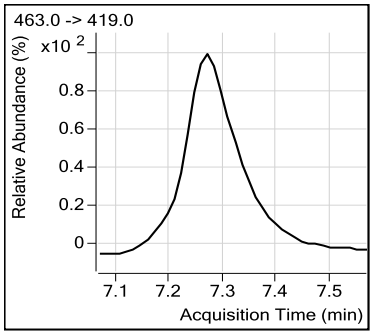


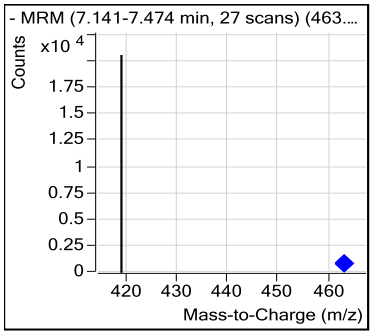




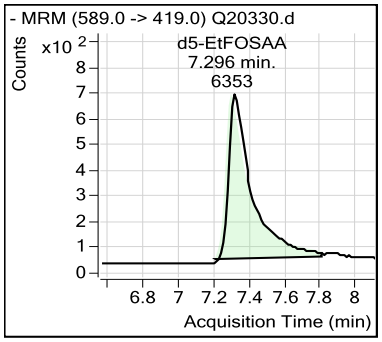
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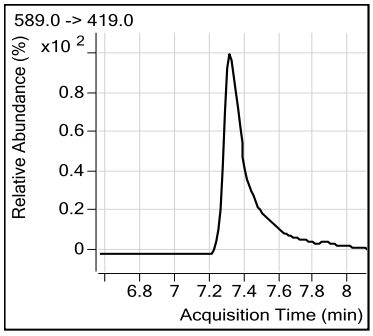


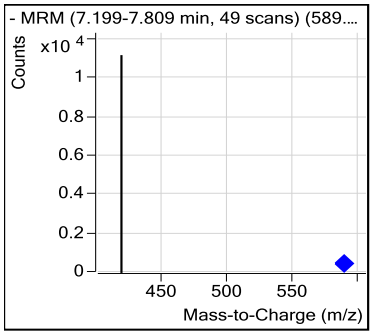




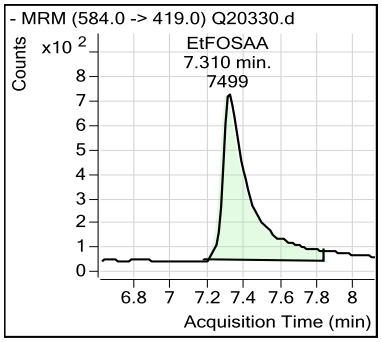
d5-EtFOSAA

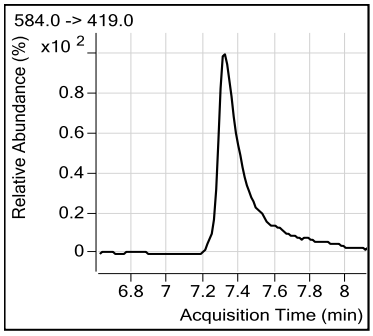


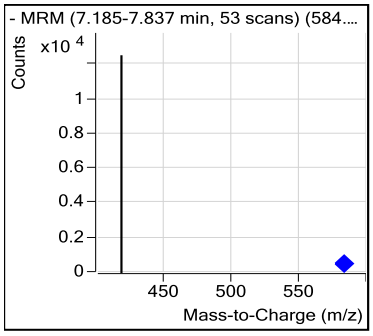




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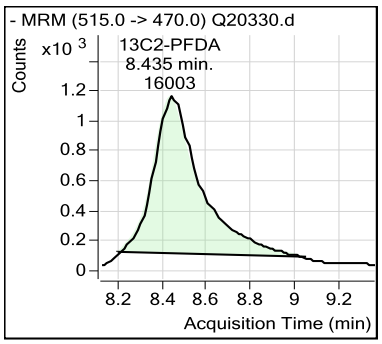


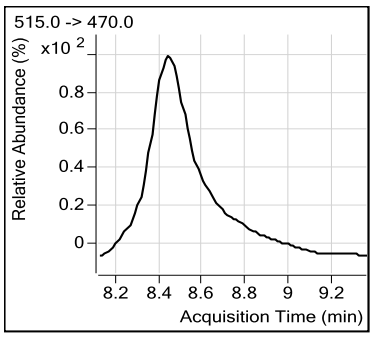


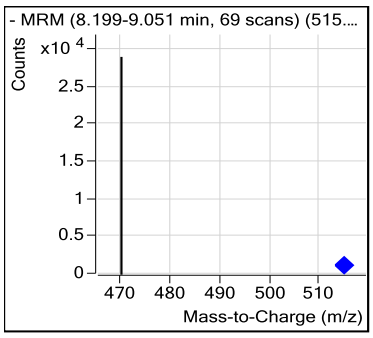


Perfluorinated Compounds by LC/MS/MS.

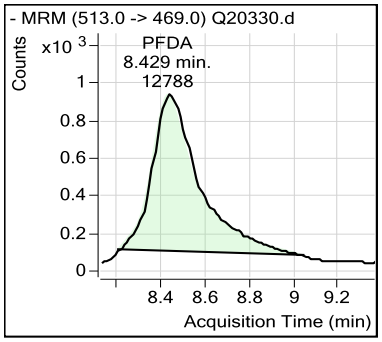
13C2-PFDA

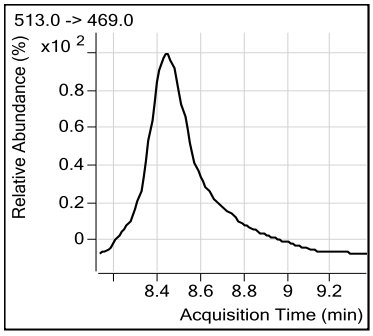


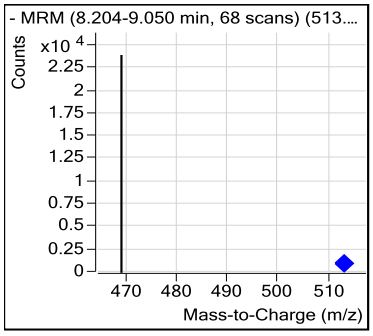




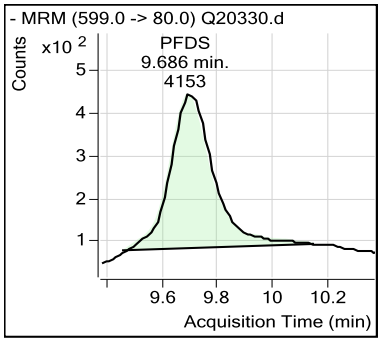
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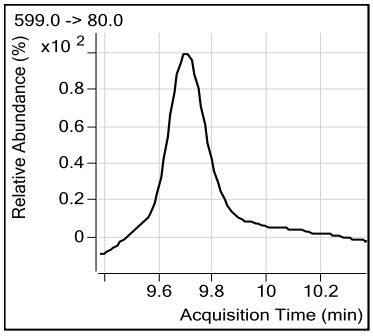


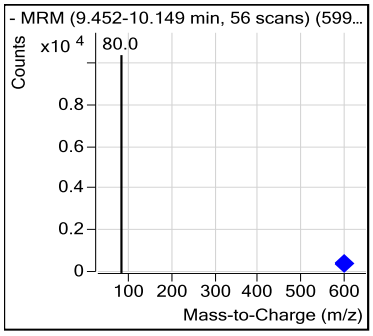




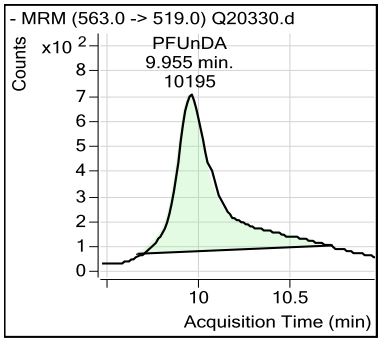
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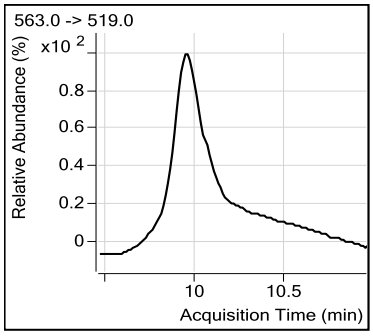


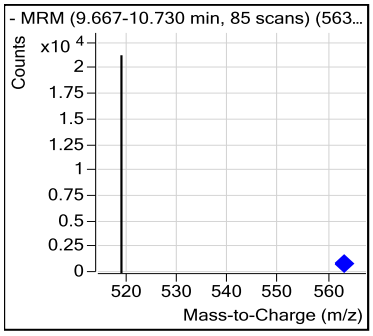




PFUnDA

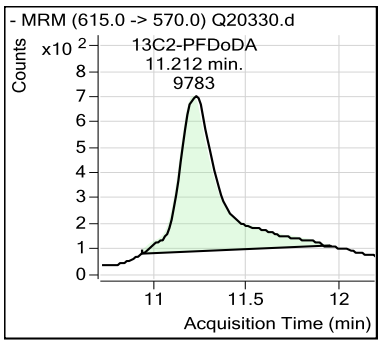


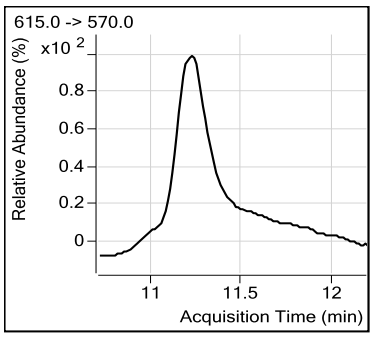


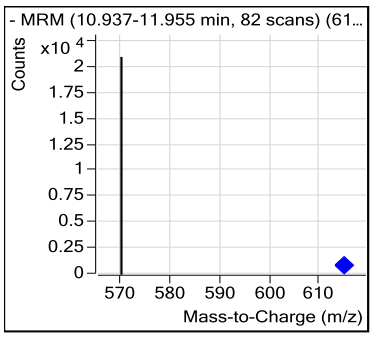


Perfluorinated Compounds by LC/MS/MS.

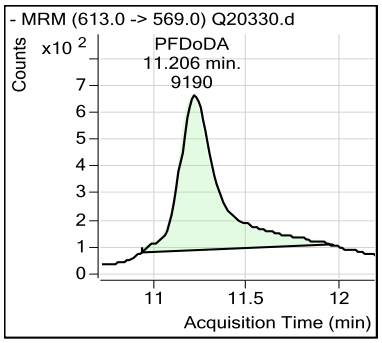
13C2-PFDoDA

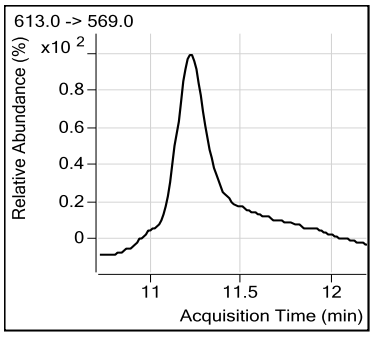


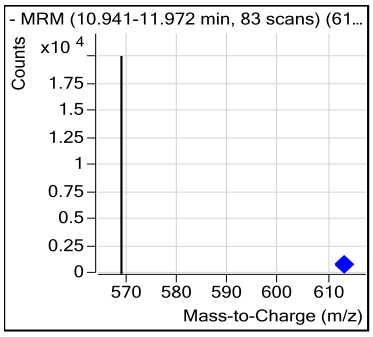




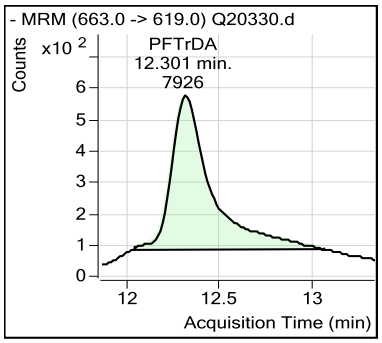
PFDoDA

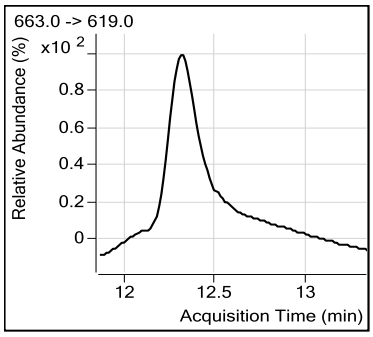


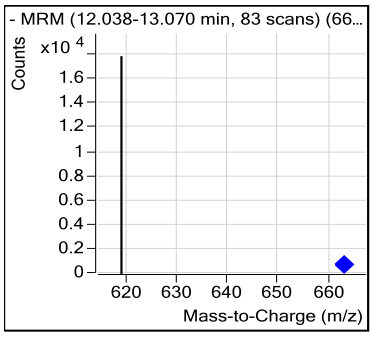




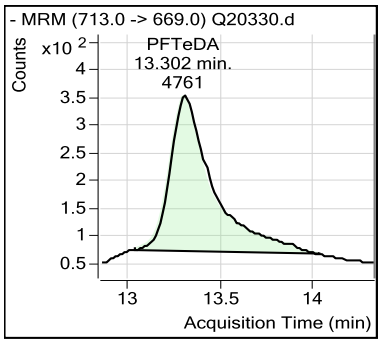
PFTrDA

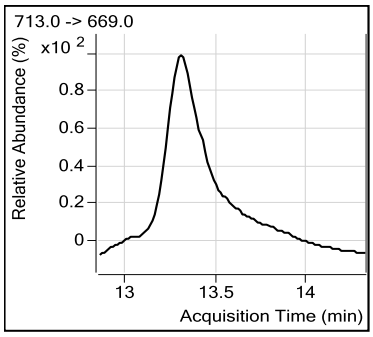


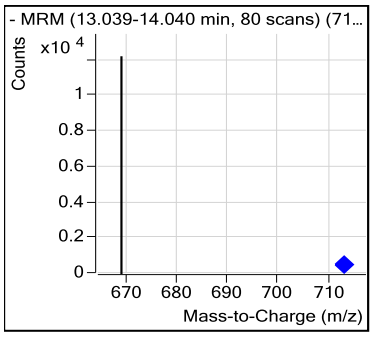




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

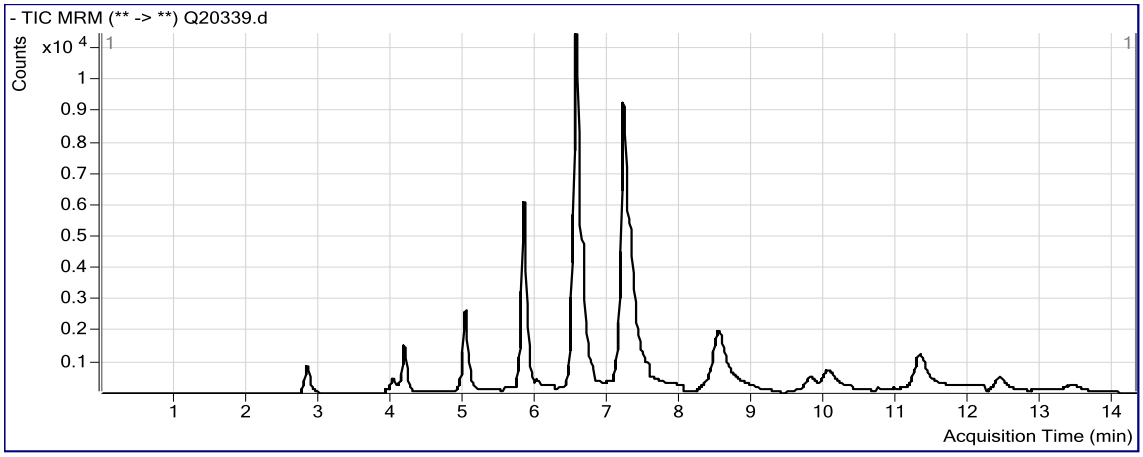
Data File	:	Q20339.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 23:55
Sample Name	:	CC607-20
Vial	:	Vial 92
Sample Info	:	OP59984,SQ608,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.563	415.0 -> 370.0	26308	20.000	µg/L		0.026
d3-MeFOSAA	7.199	573.0 -> 419.0	12146	40.000	µg/L		0.013
13C4-PFOS	7.202	503.0 -> 80.0	16016	20.000	µg/L		0.013
13C2-PFDoDA	11.300	615.0 -> 570.0	8965	20.000	µg/L		-0.012
System Monitoring Compounds							
13C2-PFHxA	5.017	315.0 -> 270.0	6766	19.98	µg/L		0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 99.92%				
d5-EtFOSAA	7.308	589.0 -> 419.0	6260	24.93	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 62.31%				
13C2-PFDA	8.522	515.0 -> 470.0	15830	19.57	µg/L		0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 97.86%				
Target Compounds							**Qvalue**
PFBA	2.827	213.0 -> 169.0	4982	12.514	µg/L		100
PFPeA	4.024	263.0 -> 219.0	1889	15.487	µg/L		100
PFBS	4.166	299.0 -> 80.0	4672	17.289	µg/L		94
PFHxA	5.008	313.0 -> 269.0	6671	19.745	µg/L		98
PFHxS	5.818	399.0 -> 80.0	9831	20.844	µg/L		88
PFHpA	5.835	363.0 -> 319.0	14058	22.394	µg/L	#	70
PFHpS	6.508	449.0 -> 80.0	9964	19.423	µg/L		100
PFOA	6.565	413.0 -> 369.0	26711	21.819	µg/L		81
PFOSA	6.649	498.0 -> 78.0	10171	15.380	µg/L		100
MeFOSAA	7.200	570.0 -> 419.0	7944	27.207	µg/L		100
PFOS	7.203	499.0 -> 80.0	17167	20.755	µg/L		89
PFNA	7.294	463.0 -> 419.0	12369	20.752	µg/L		100
EtFOSAA	7.322	584.0 -> 419.0	7402	28.514	µg/L		100
PFDA	8.516	513.0 -> 469.0	12784	20.195	µg/L		100
PFDS	9.774	599.0 -> 80.0	4250	21.506	µg/L		100
PFUnDA	10.043	563.0 -> 519.0	9762	21.728	µg/L		100
PFDoDA	11.306	613.0 -> 569.0	8396	16.023	µg/L		100
PFTrDA	12.401	663.0 -> 619.0	7526	20.790	µg/L		100
PFTeDA	13.414	713.0 -> 669.0	4612	20.562	µg/L		100

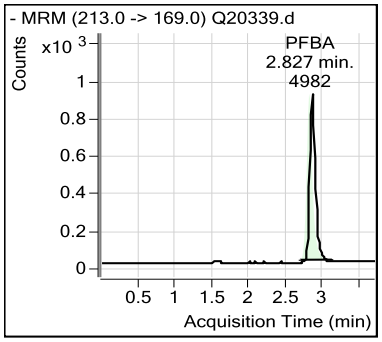
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

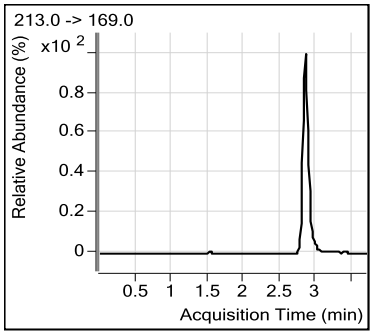
Perfluorinated Compounds by LC/MS/MS.

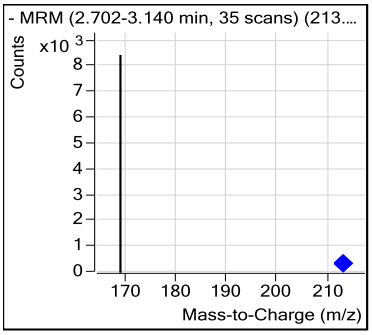
Data File	:	Q20339.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-13 23:55
Sample Name	:	CC607-20
Vial	:	Vial 92
Sample Info	:	OP59984,SQ608,1.0,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ608.batch.bin
Last Calib Update	:	2016-04-13 09:28



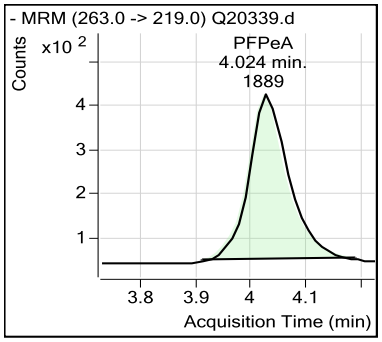
PFBA

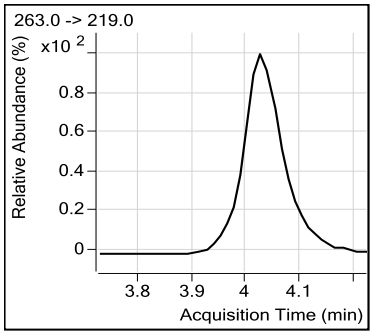


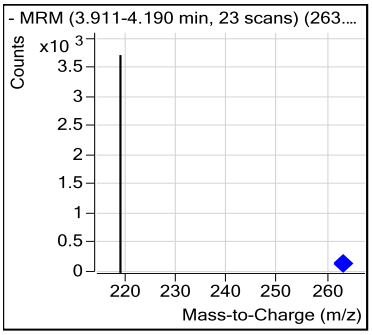




PFPeA

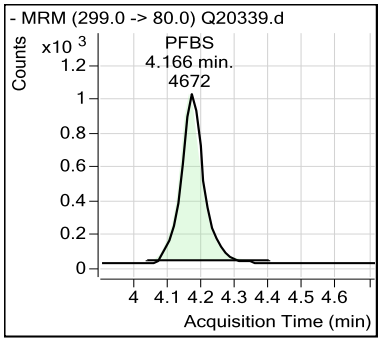


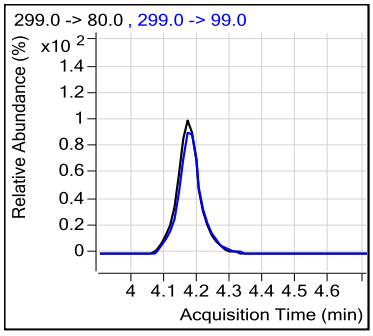


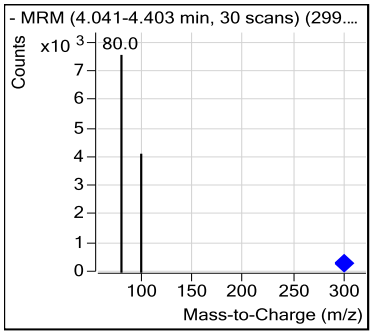


Perfluorinated Compounds by LC/MS/MS.

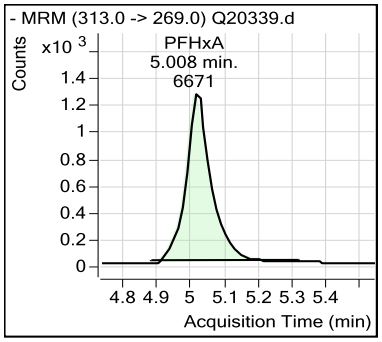
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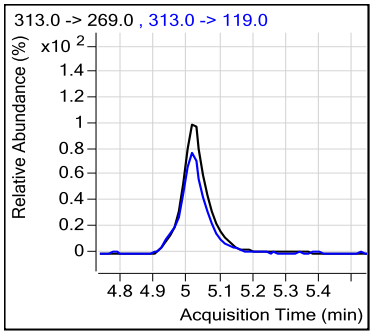


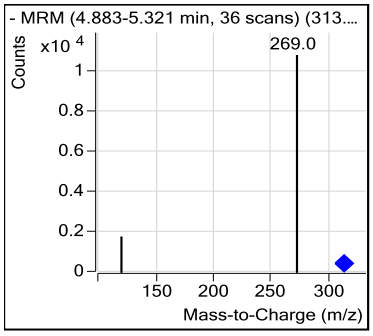




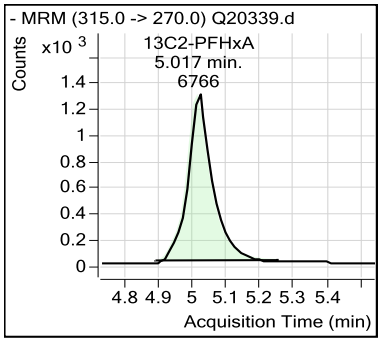
PFHxA

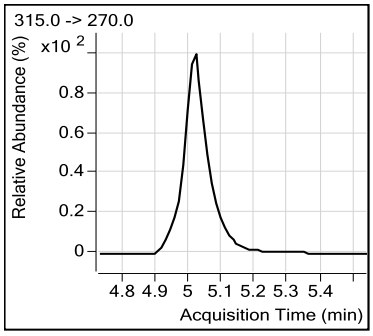


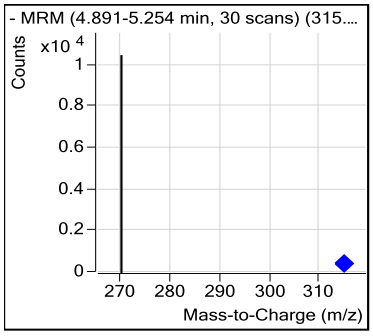




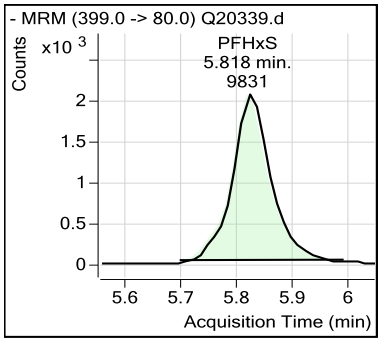
13C2-PFHxA

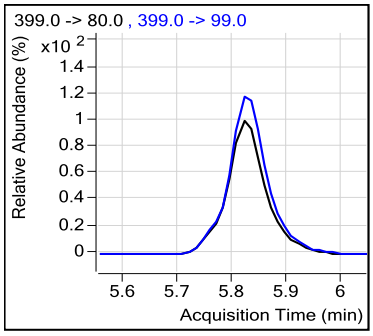


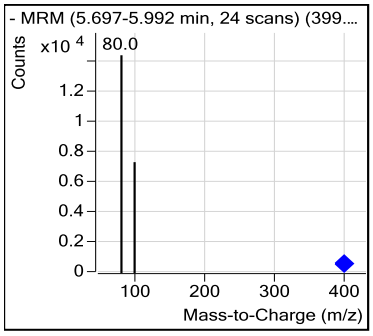




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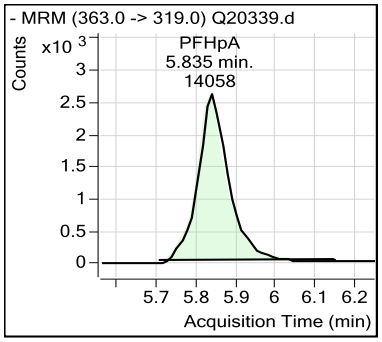


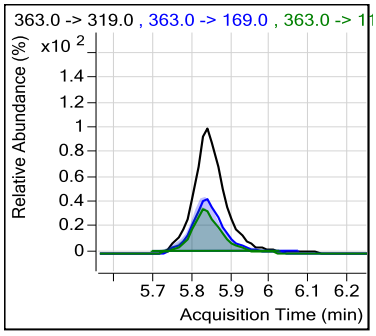


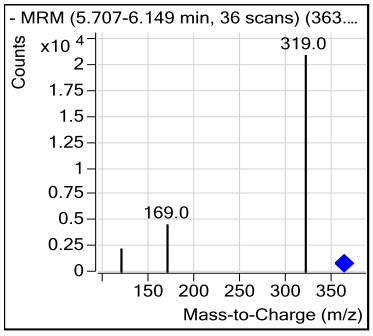


Perfluorinated Compounds by LC/MS/MS.

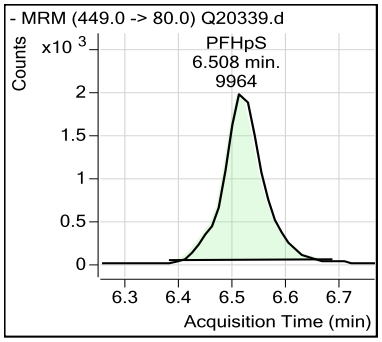
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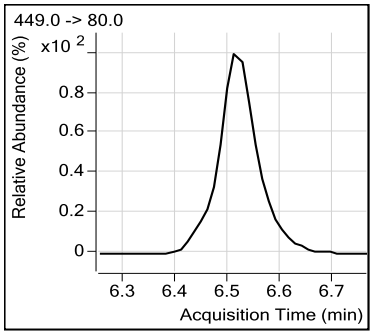


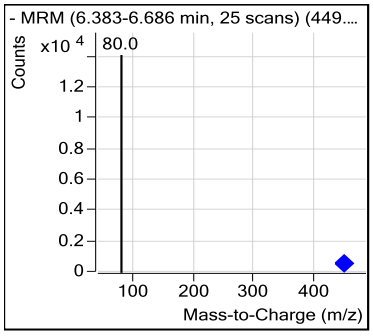




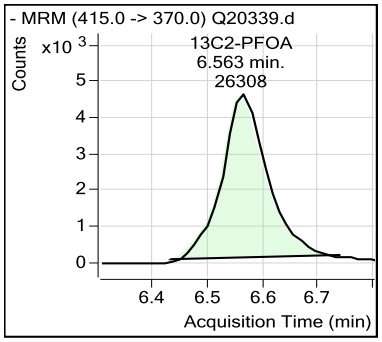
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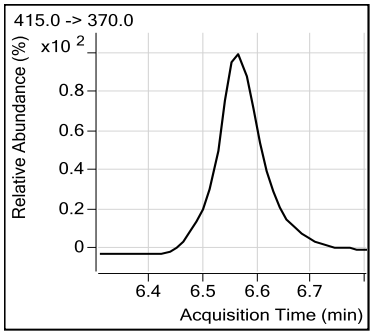


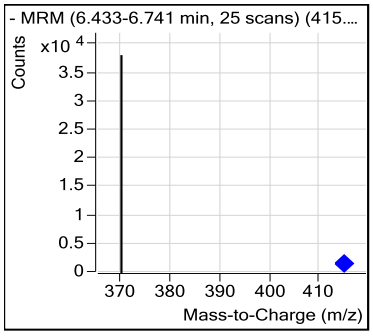




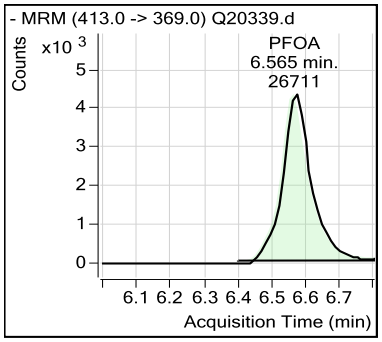
13C2-PFOA

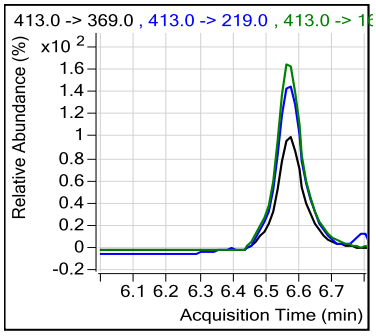


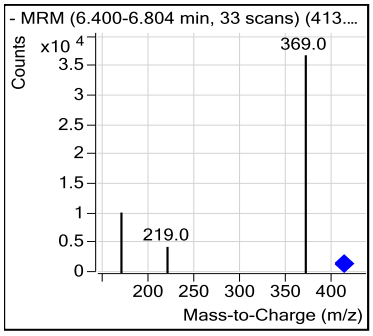




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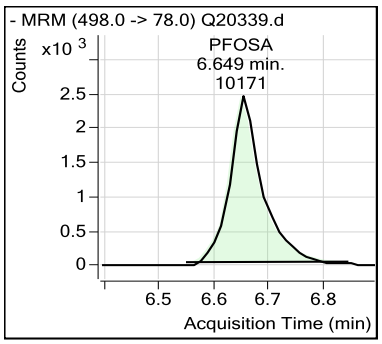


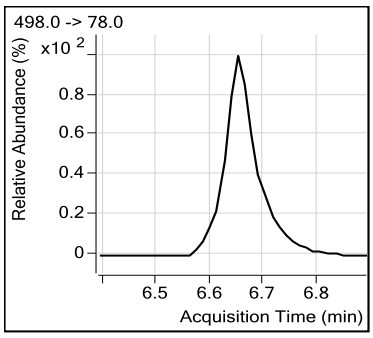


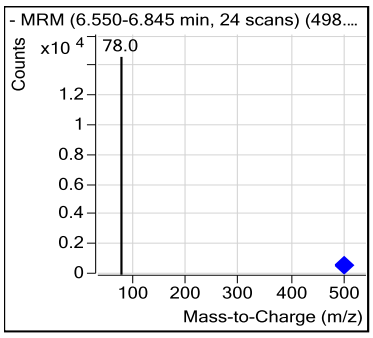


Perfluorinated Compounds by LC/MS/MS.

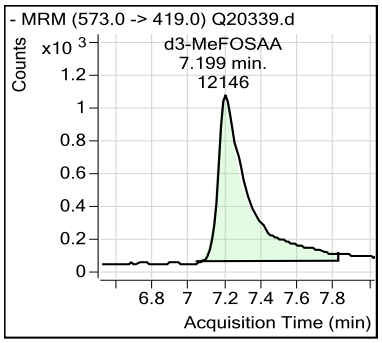
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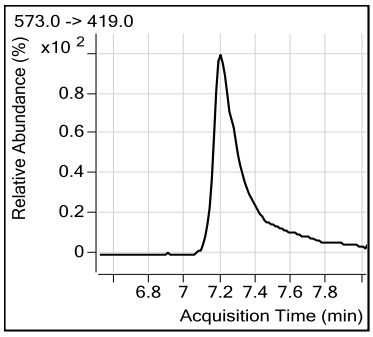


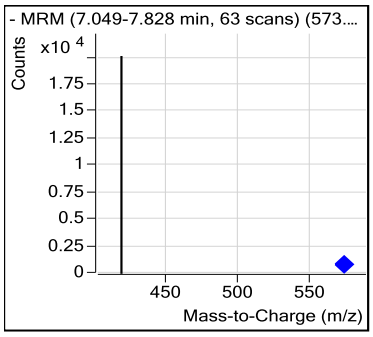




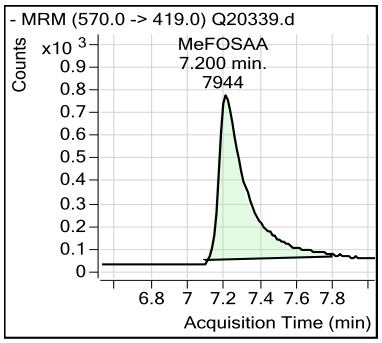
d3-MeFOSAA

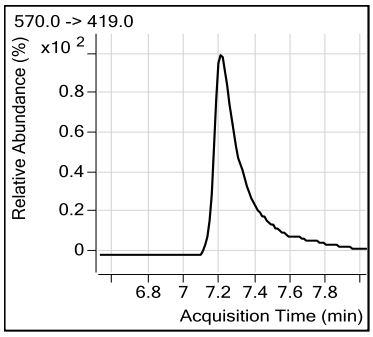


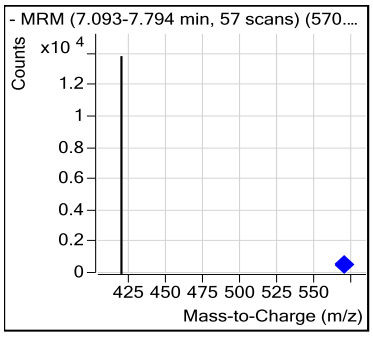




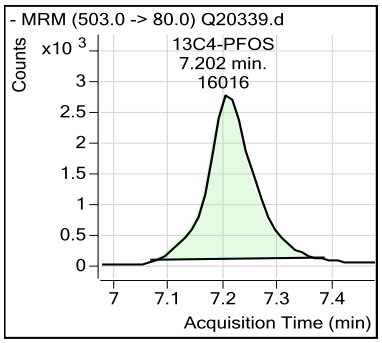
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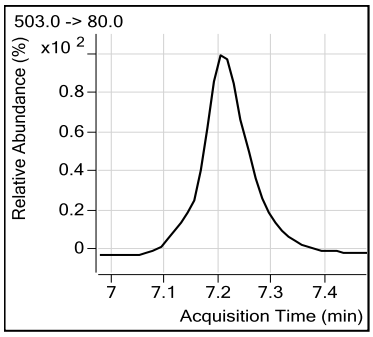


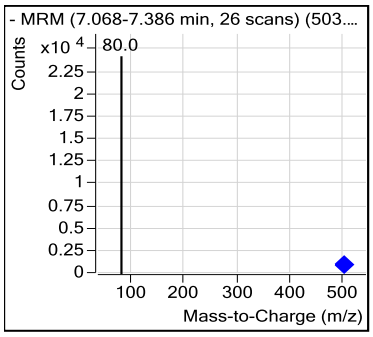




13C4-PFOS

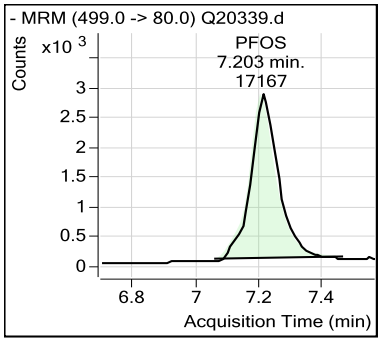


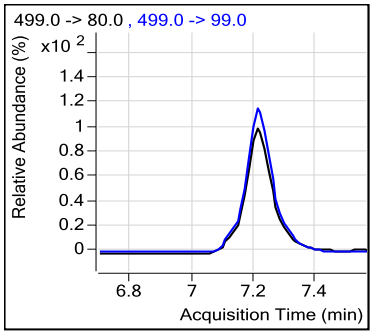


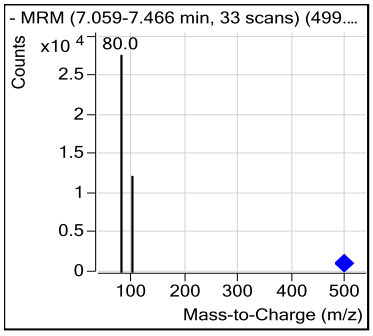


Perfluorinated Compounds by LC/MS/MS.

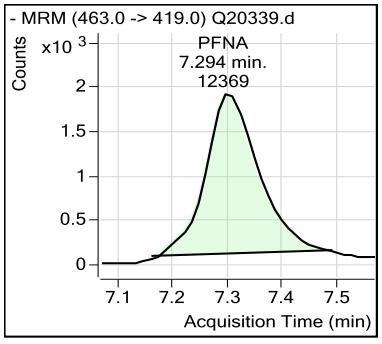
PFOS

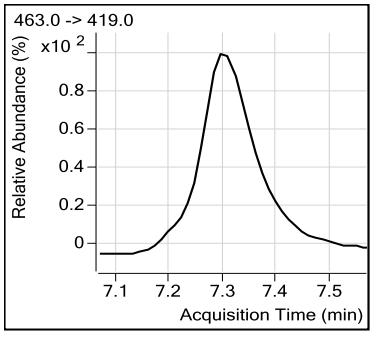


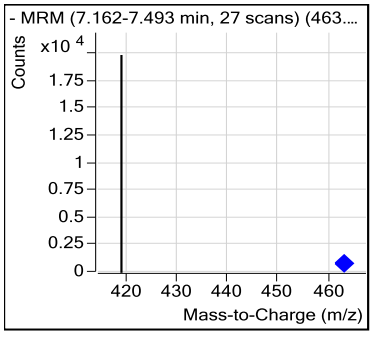




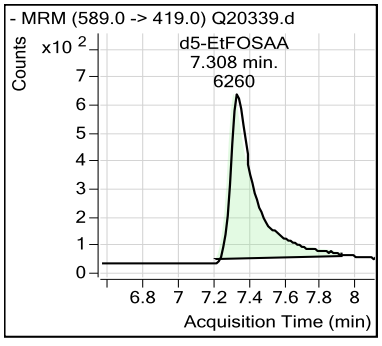
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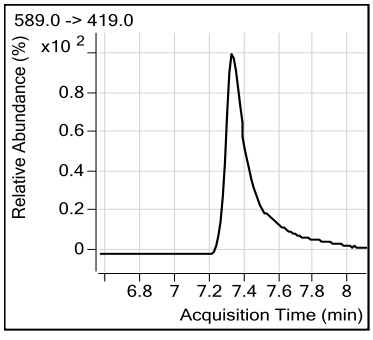


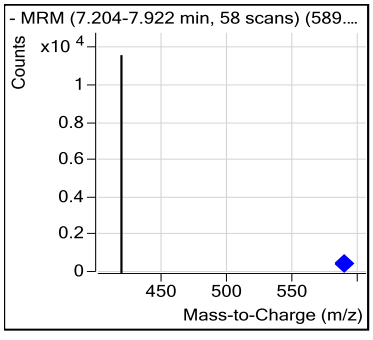




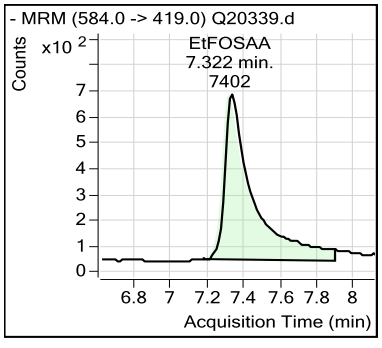
d5-EtFOSAA

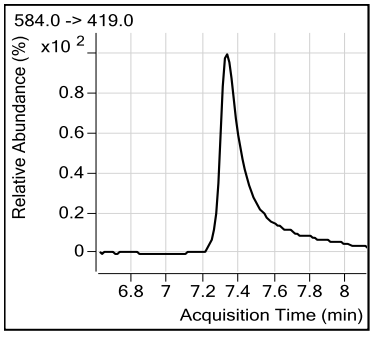


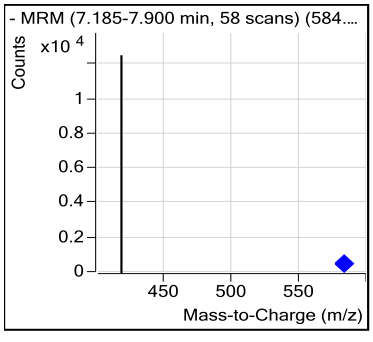




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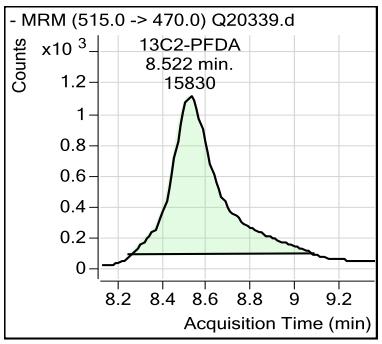


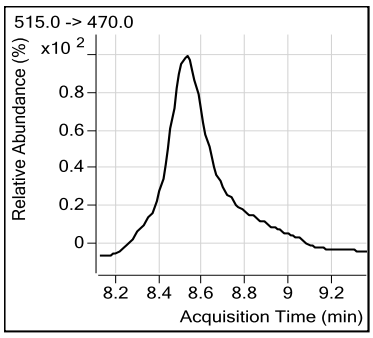


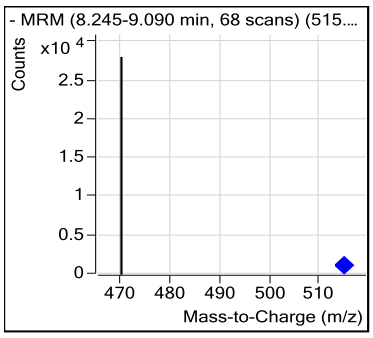


Perfluorinated Compounds by LC/MS/MS.

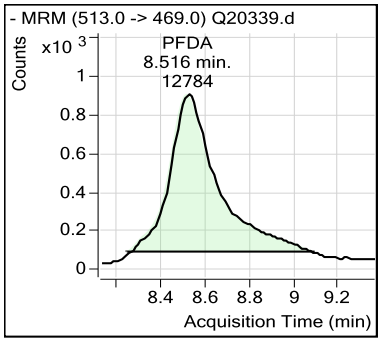
13C2-PFDA

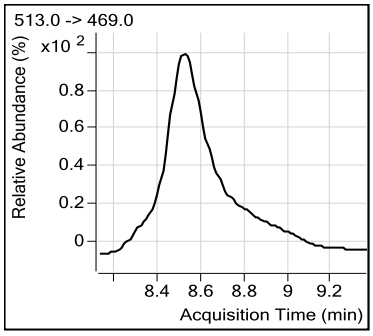


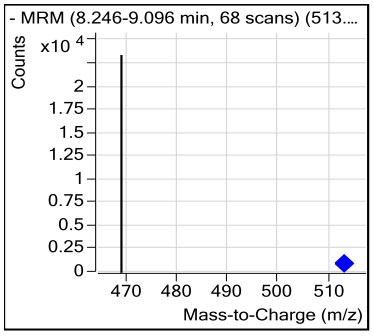




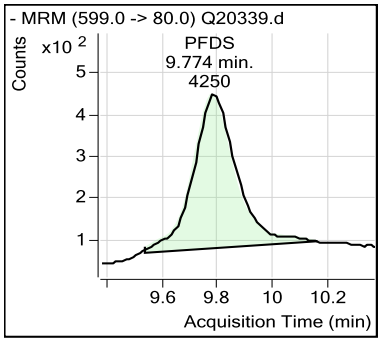
PFDA

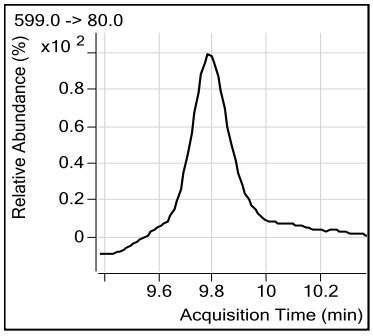


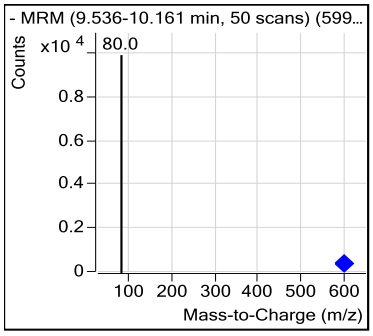




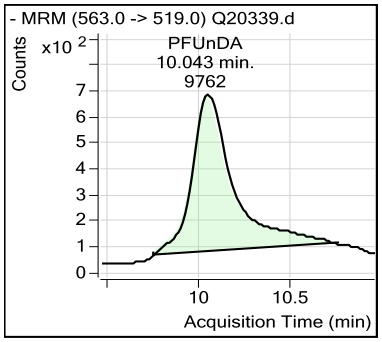
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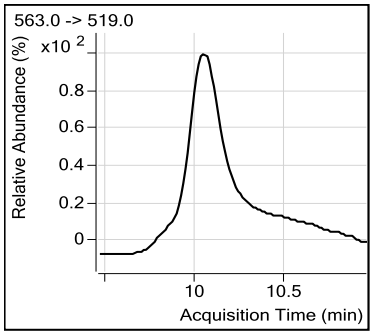


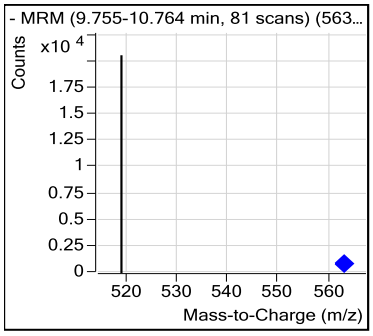




PFUnDA

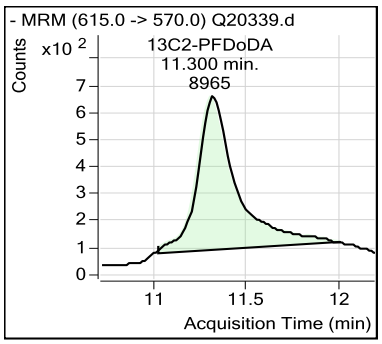


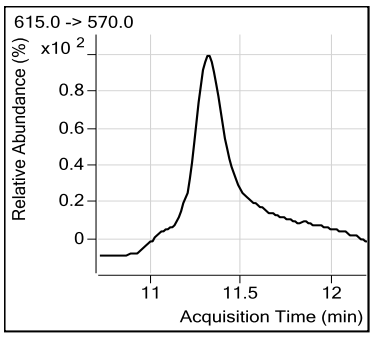


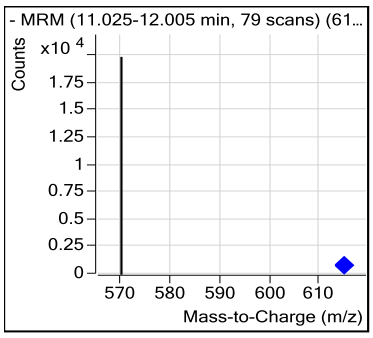


Perfluorinated Compounds by LC/MS/MS.

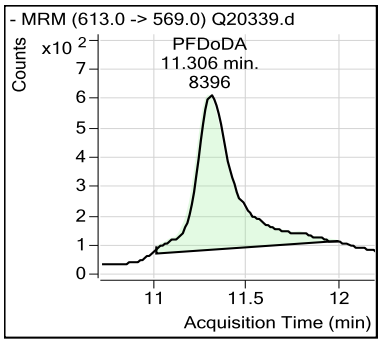
13C2-PFDoDA

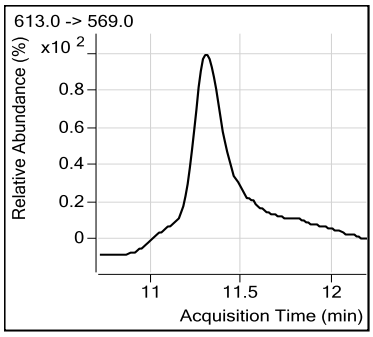


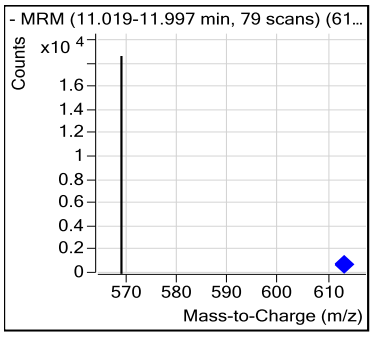




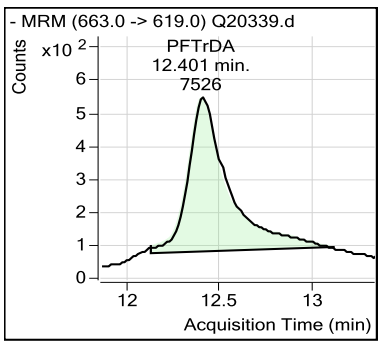
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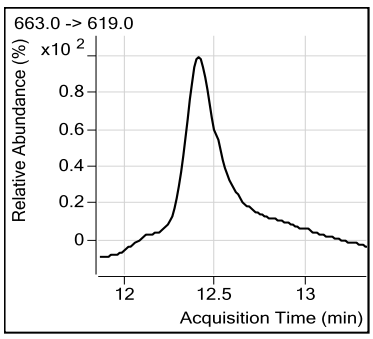


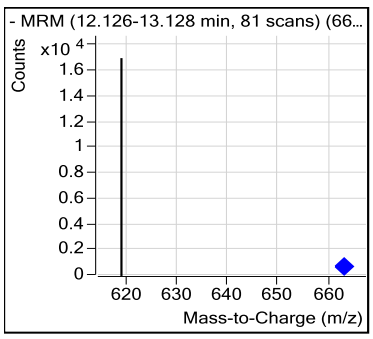




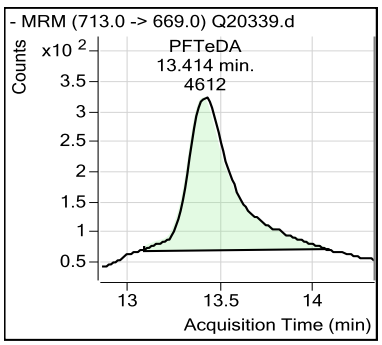
PFTrDA

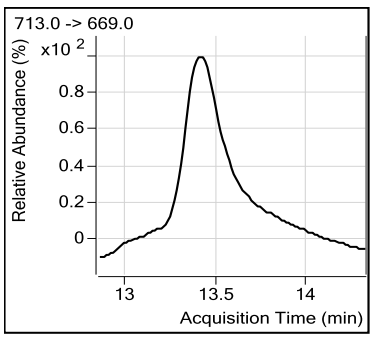


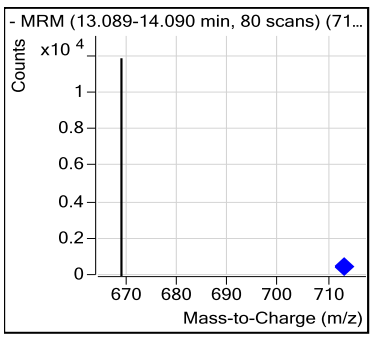




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

Data File	:	Q20353.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 09:37
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ609,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28

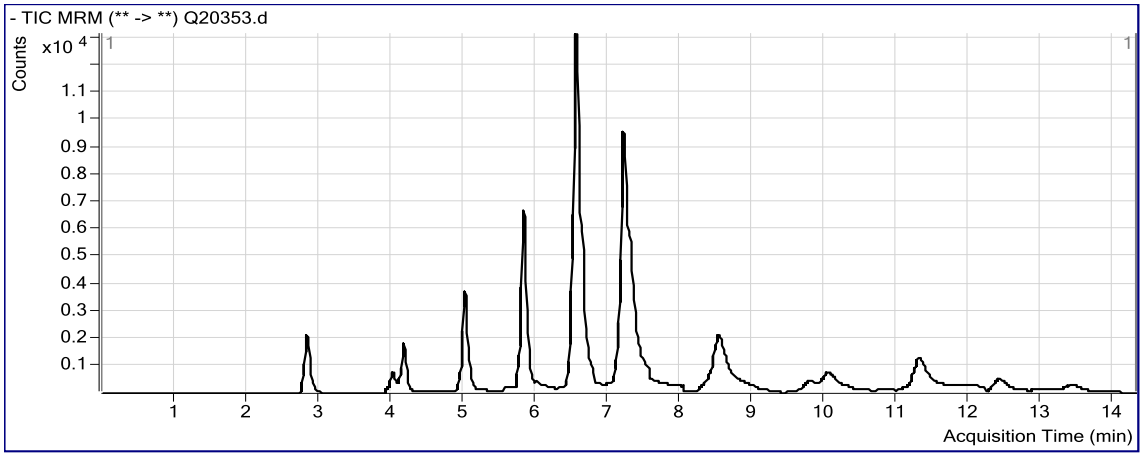
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.563	415.0 -> 370.0	30979	20.000	µg/L		0.026
d3-MeFOSAA	7.186	573.0 -> 419.0	12231	40.000	µg/L		0.000
13C4-PFOS	7.202	503.0 -> 80.0	16872	20.000	µg/L		0.013
13C2-PFDoDA	11.288	615.0 -> 570.0	9917	20.000	µg/L		-0.025
System Monitoring Compounds							
13C2-PFHxA	5.004	315.0 -> 270.0	9853	24.71	µg/L		0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 123.56%				
d5-EtFOSAA	7.308	589.0 -> 419.0	6100	23.97	µg/L		0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 59.91%				
13C2-PFDA	8.522	515.0 -> 470.0	16735	17.57	µg/L		0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 87.85%				
Target Compounds							**Qvalue**
PFBA	2.827	213.0 -> 169.0	12339	26.322	µg/L		100
PFPeA	4.024	263.0 -> 219.0	3479	24.223	µg/L		100
PFBS	4.166	299.0 -> 80.0	5820	20.446	µg/L		94
PFHxA	5.008	313.0 -> 269.0	9754	24.519	µg/L		98
PFHxS	5.818	399.0 -> 80.0	9787	19.699	µg/L		85
PFHpA	5.835	363.0 -> 319.0	16893	22.853	µg/L	#	71
PFHpS	6.508	449.0 -> 80.0	10378	19.204	µg/L		100
PFOA	6.565	413.0 -> 369.0	32557	22.584	µg/L		83
PFOSA	6.649	498.0 -> 78.0	11376	17.082	µg/L		100
MeFOSAA	7.200	570.0 -> 419.0	7599	25.660	µg/L		100
PFOS	7.203	499.0 -> 80.0	18747	21.516	µg/L		87
PFNA	7.307	463.0 -> 419.0	14138	20.142	µg/L		100
EtFOSAA	7.310	584.0 -> 419.0	7082	26.903	µg/L		100
PFDA	8.529	513.0 -> 469.0	14224	19.082	µg/L		100
PFDS	9.774	599.0 -> 80.0	4280	19.577	µg/L		100
PFUnDA	10.043	563.0 -> 519.0	10611	21.350	µg/L		100
PFDoDA	11.306	613.0 -> 569.0	9402	16.220	µg/L		100
PFTrDA	12.389	663.0 -> 619.0	8346	20.843	µg/L		100
PFTeDA	13.402	713.0 -> 669.0	5162	20.803	µg/L		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

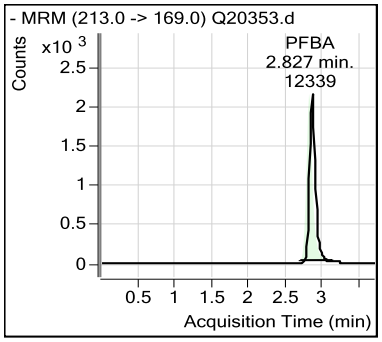
SGS ACCUTEST FA32826

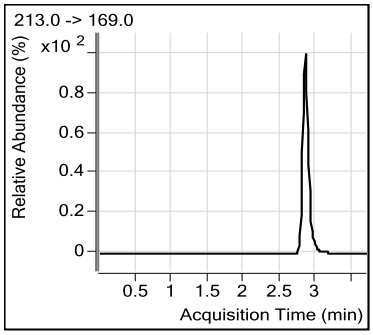
Perfluorinated Compounds by LC/MS/MS.

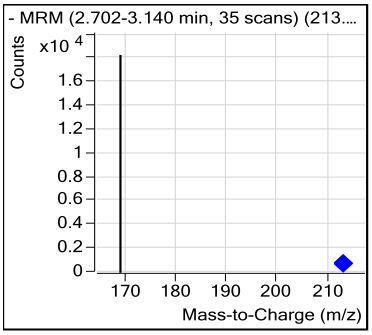
Data File	:	Q20353.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 09:37
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ609,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28



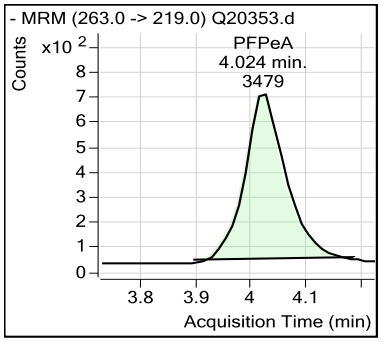
PFBA

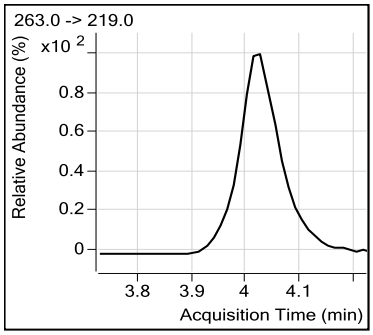


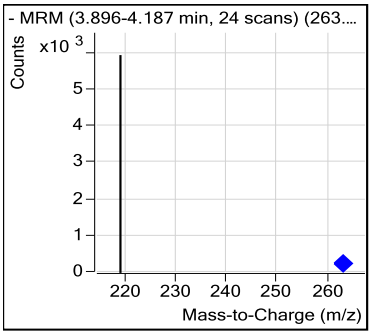




PFPeA

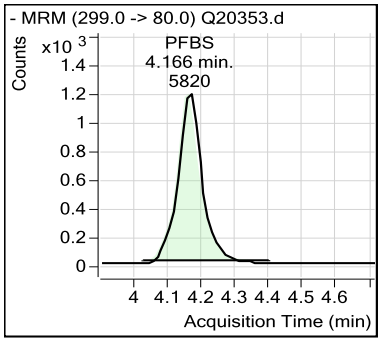


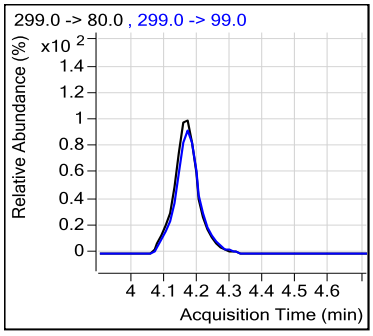


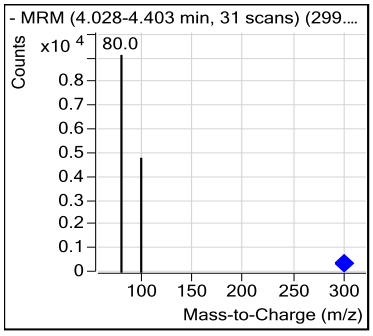


Perfluorinated Compounds by LC/MS/MS.

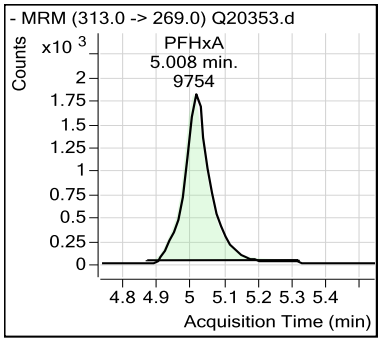
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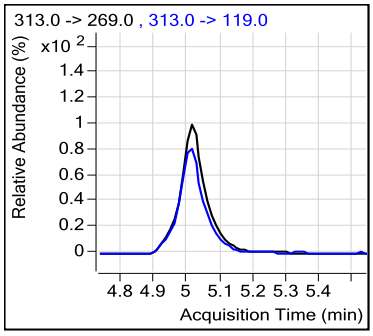


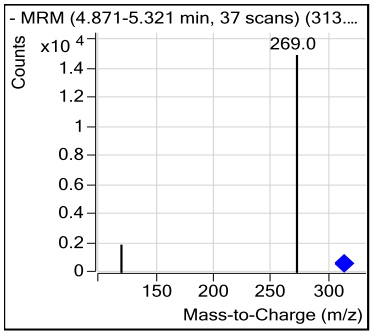




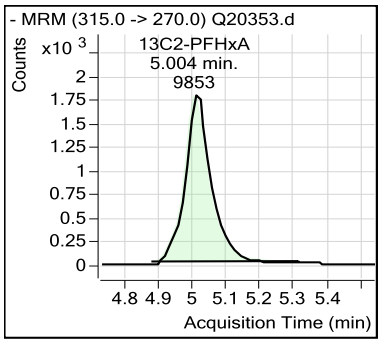
PFHxA

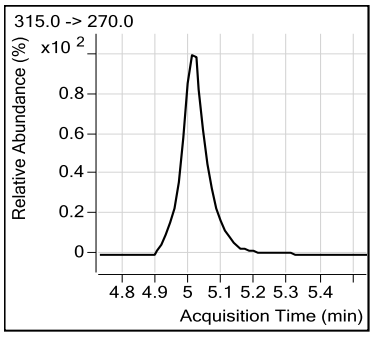


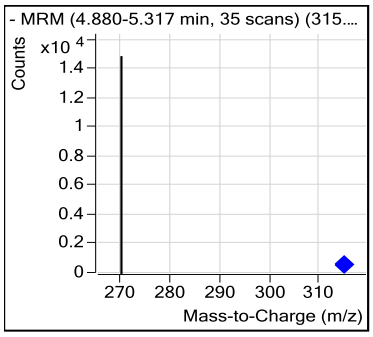




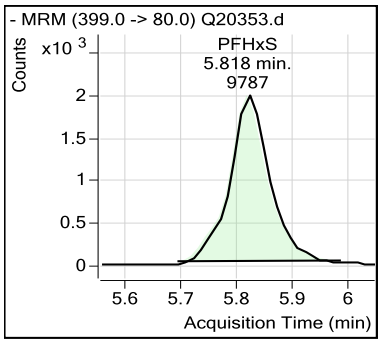
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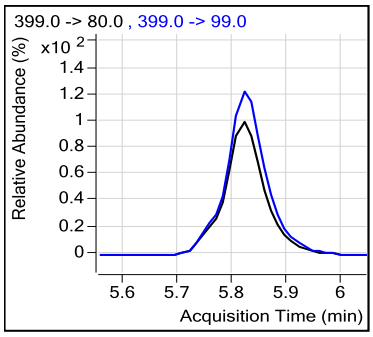


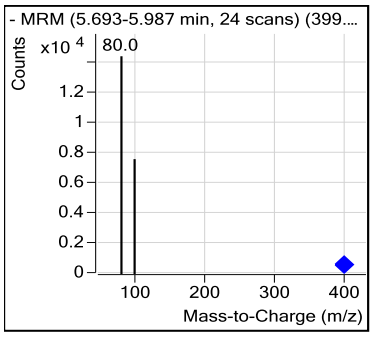




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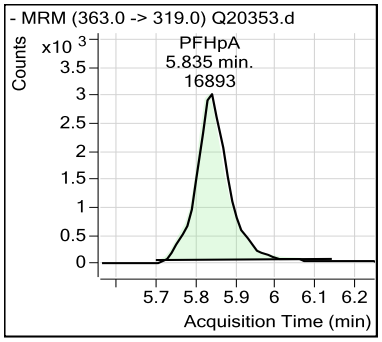


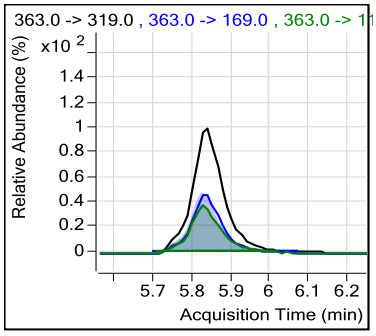


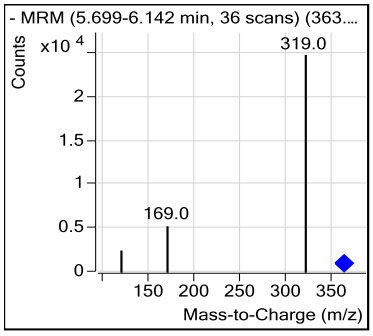


Perfluorinated Compounds by LC/MS/MS.

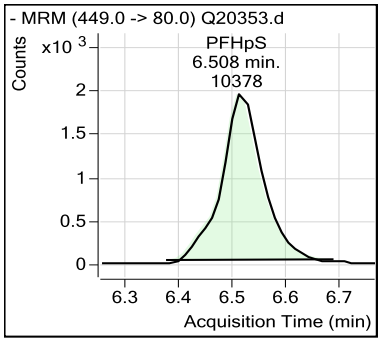
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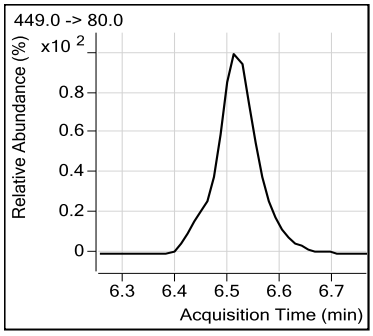


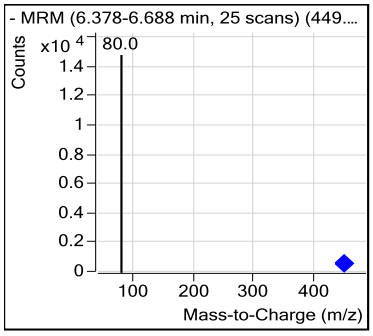




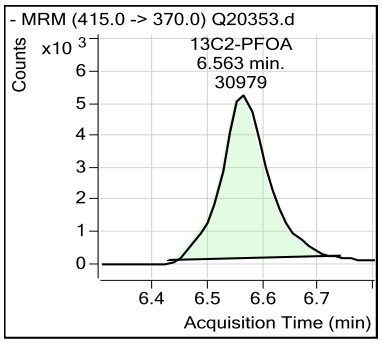
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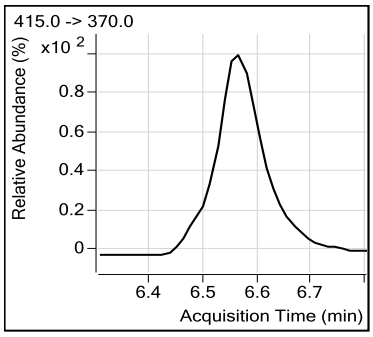


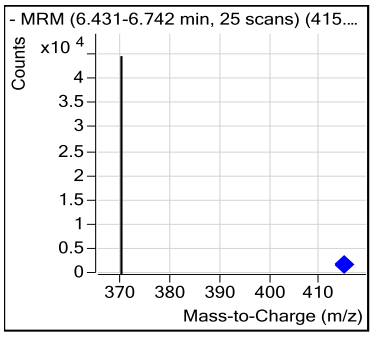




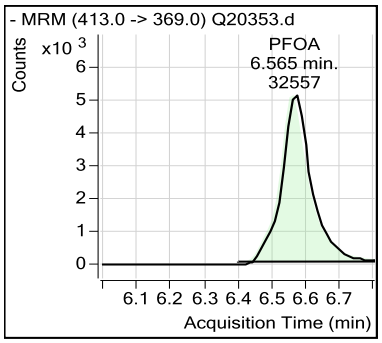
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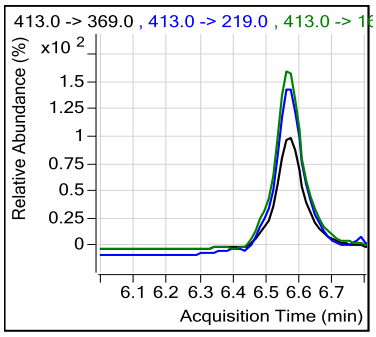


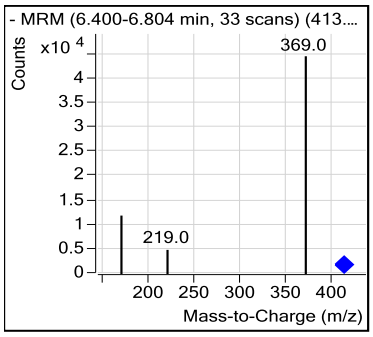




PFOA

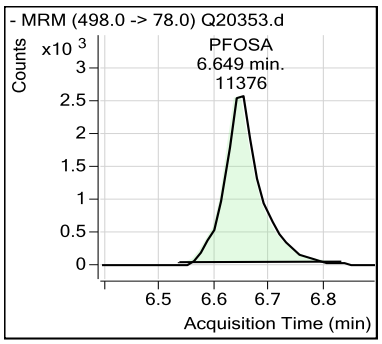


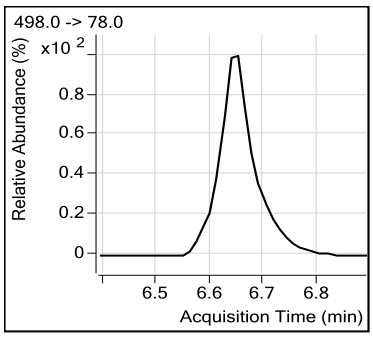


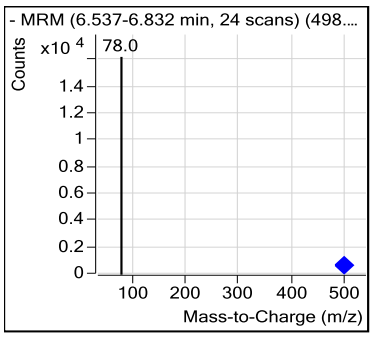


Perfluorinated Compounds by LC/MS/MS.

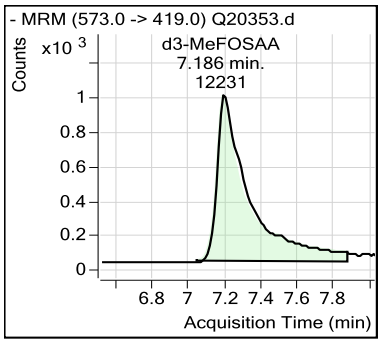
PFOSA

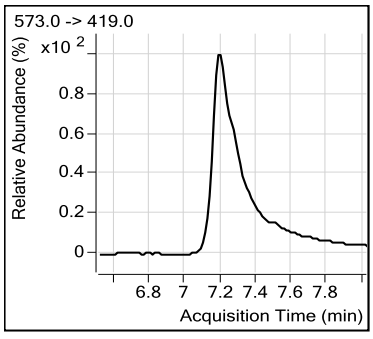


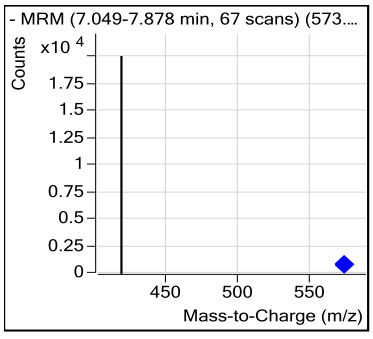




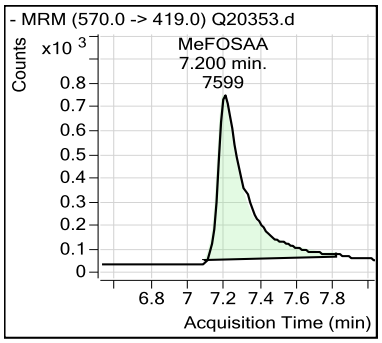
d3-MeFOSAA

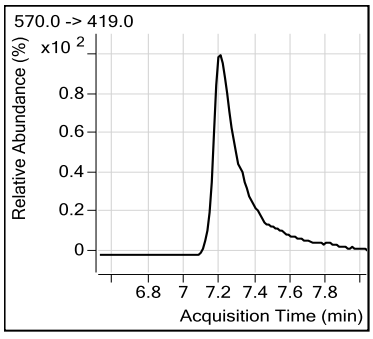


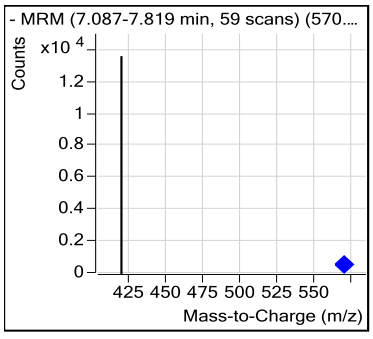




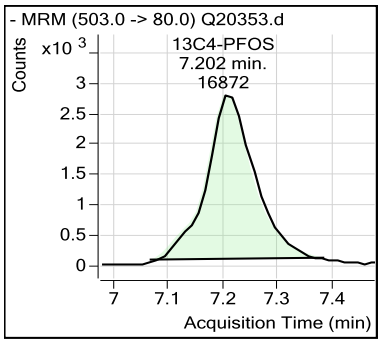
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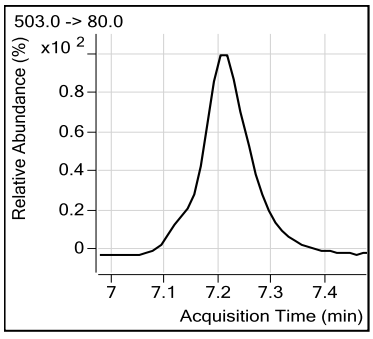


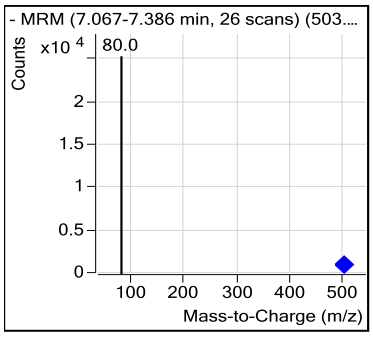




13C4-PFOS

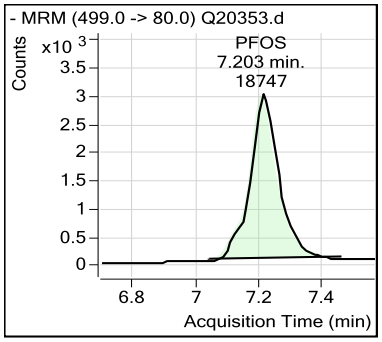


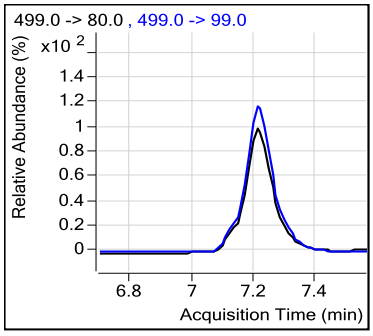


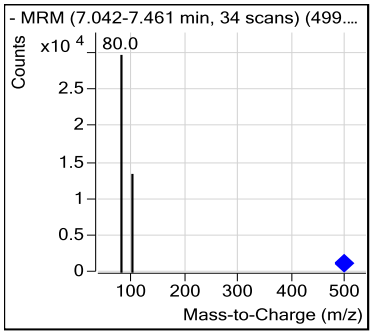


Perfluorinated Compounds by LC/MS/MS.

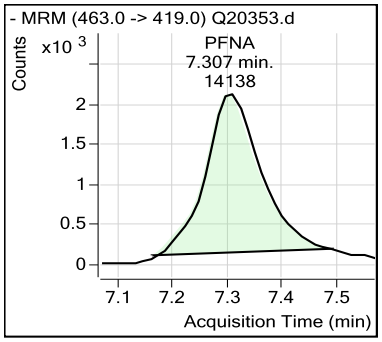
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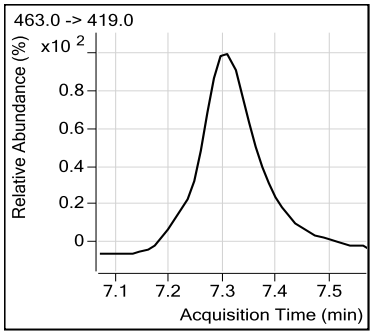


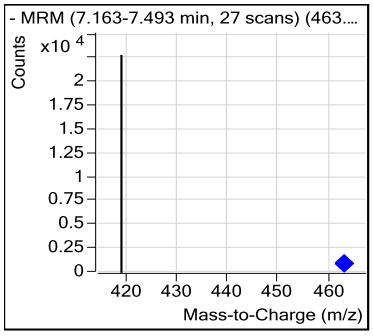




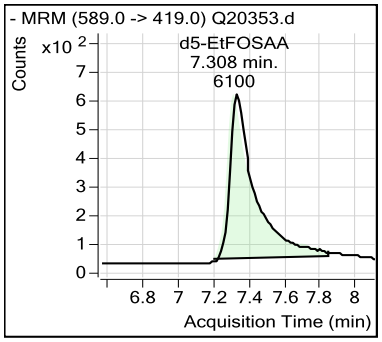
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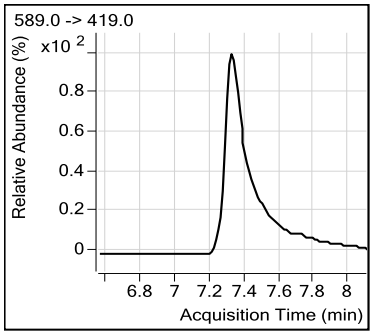


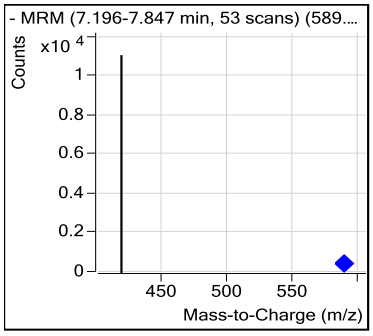




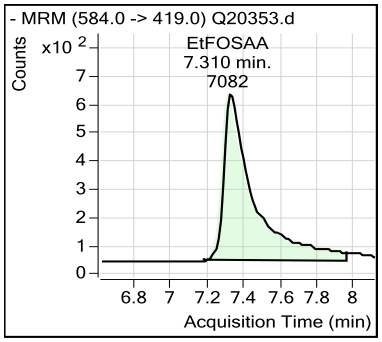
d5-EtFOSAA

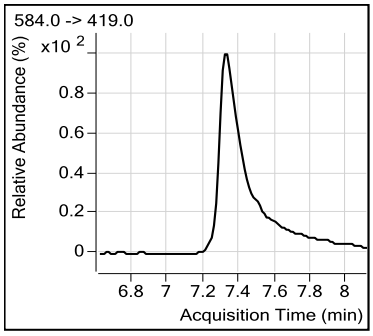


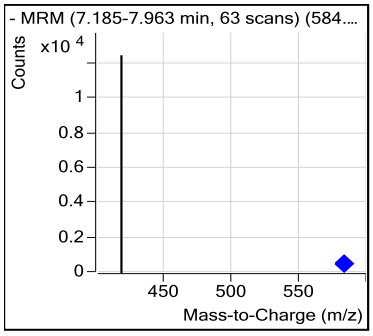




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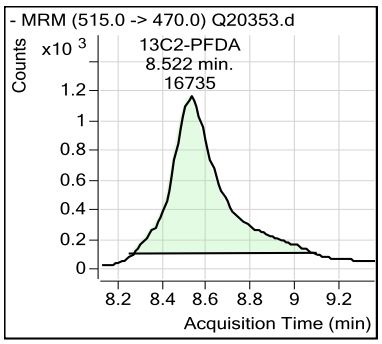


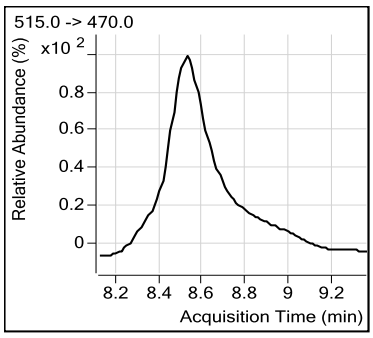


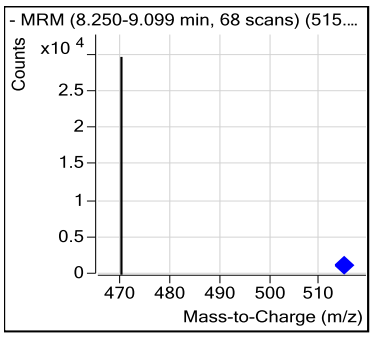


Perfluorinated Compounds by LC/MS/MS.

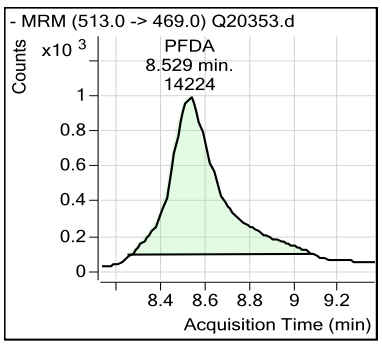
13C2-PFDA

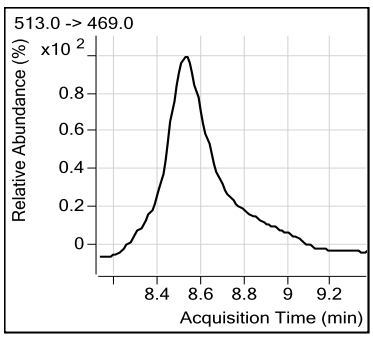


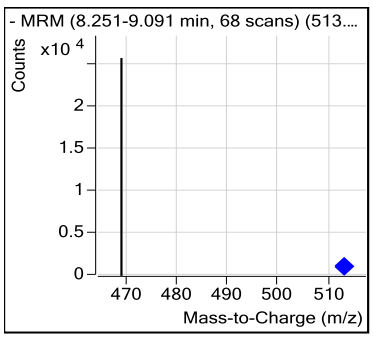




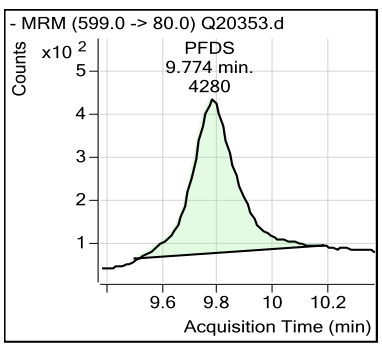
PFDA

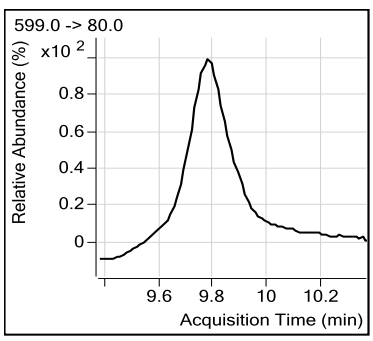


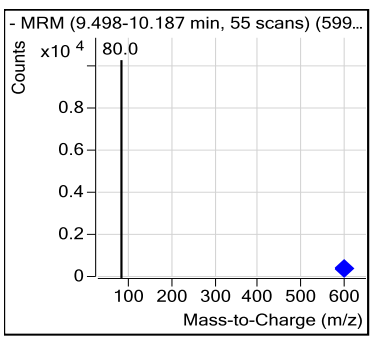




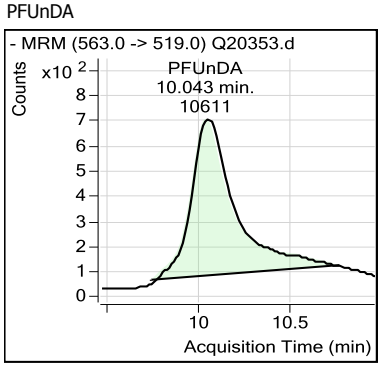
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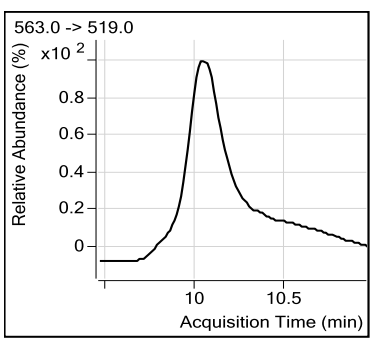


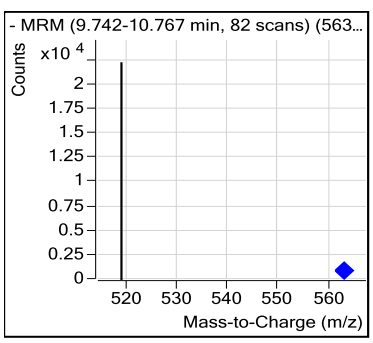




PFUnDA

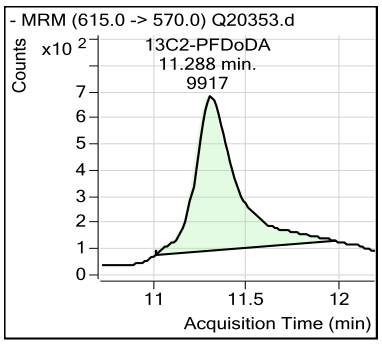


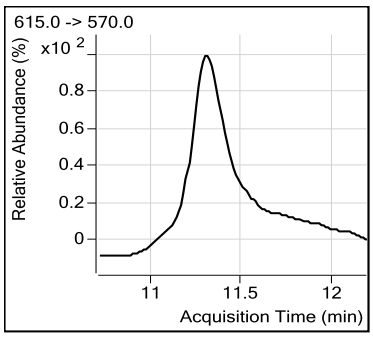


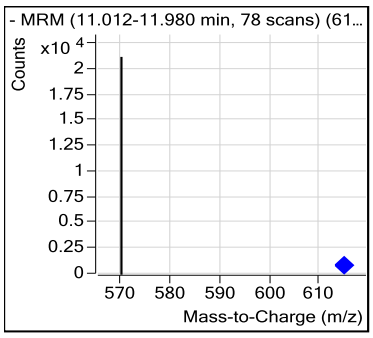


Perfluorinated Compounds by LC/MS/MS.

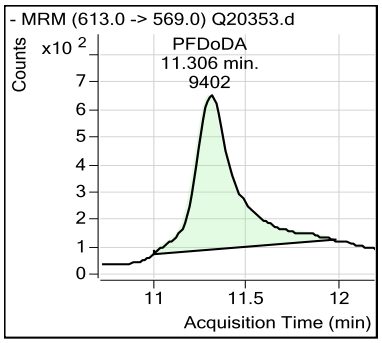
13C2-PFDoDA

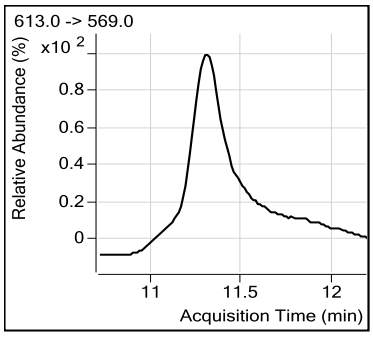


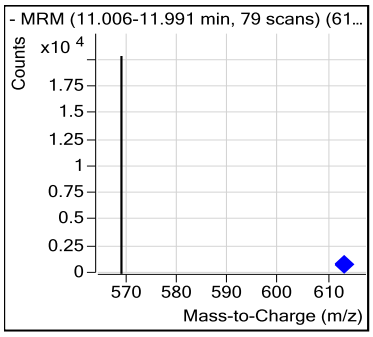




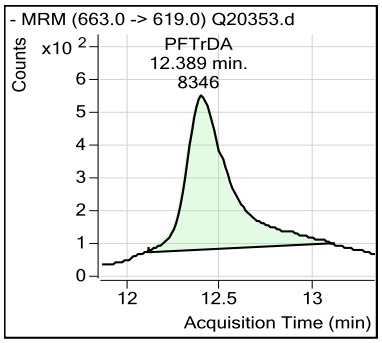
PFDoDA

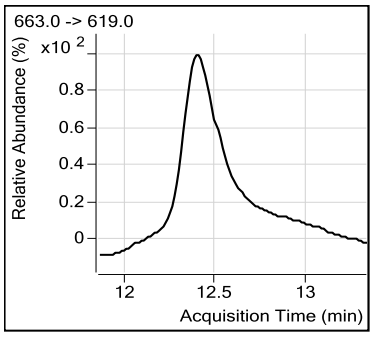


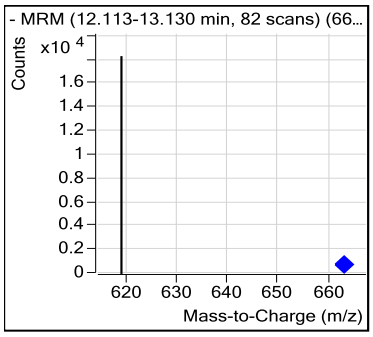




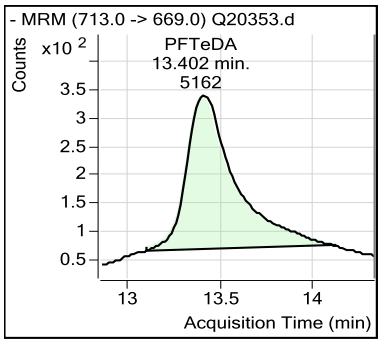
PFTrDA

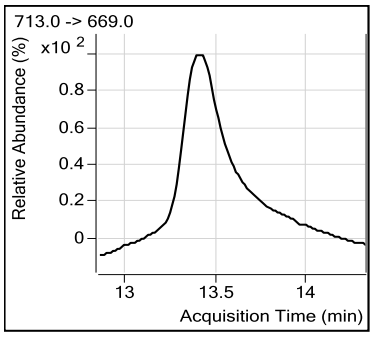


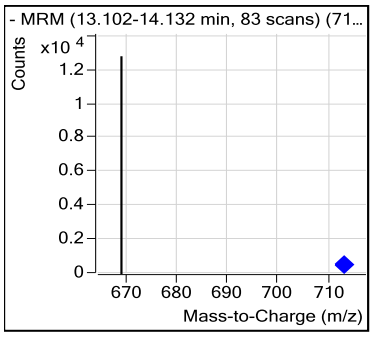




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

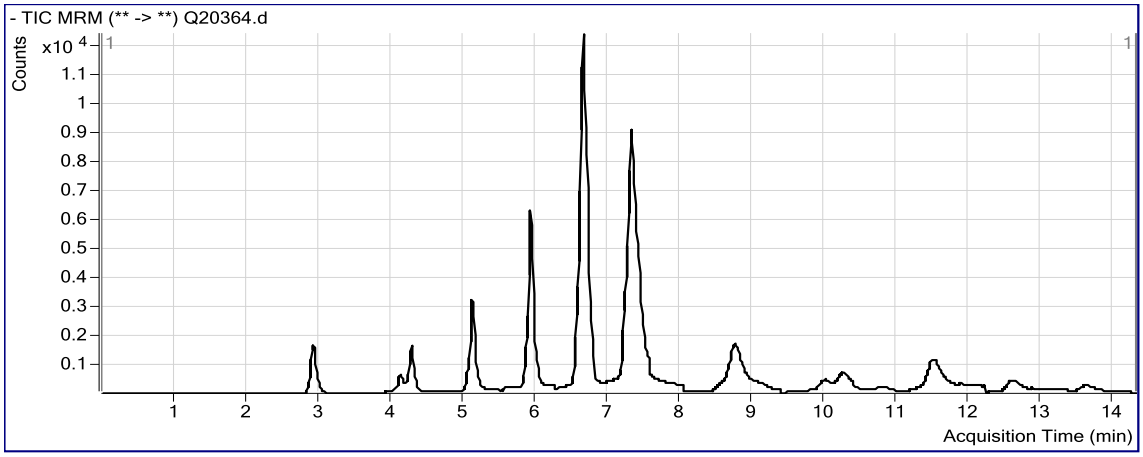
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 14:36
Sample Name	:	ECC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ609,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
13C2-PFOA	6.652	415.0 -> 370.0	26274	20.000	µg/L		0.114
d3-MeFOSAA	7.249	573.0 -> 419.0	11212	40.000	µg/L		0.063
13C4-PFOS	7.315	503.0 -> 80.0	15342	20.000	µg/L		0.125
13C2-PFDoDA	11.500	615.0 -> 570.0	8167	20.000	µg/L		0.188
System Monitoring Compounds							
13C2-PFHxA	5.117	315.0 -> 270.0	8601	25.43	µg/L		0.125
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 127.17%				
d5-EtFOSAA	7.358	589.0 -> 419.0	5735	24.70	µg/L		0.063
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 61.76%				
13C2-PFDA	8.735	515.0 -> 470.0	13375	16.56	µg/L		0.238
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 82.79%				
Target Compounds							**Qvalue**
PFBA	2.915	213.0 -> 169.0	9512	23.926	µg/L		100
PFPeA	4.124	263.0 -> 219.0	2685	22.041	µg/L		100
PFBS	4.266	299.0 -> 80.0	5514	21.302	µg/L		96
PFHxA	5.108	313.0 -> 269.0	8519	25.250	µg/L		99
PFHxS	5.918	399.0 -> 80.0	9915	21.947	µg/L		86
PFHpA	5.923	363.0 -> 319.0	15134	24.140	µg/L	#	70
PFHpS	6.600	449.0 -> 80.0	10394	21.150	µg/L		100
PFOA	6.653	413.0 -> 369.0	28498	23.309	µg/L		83
PFOSA	6.713	498.0 -> 78.0	10464	17.142	µg/L		100
MeFOSAA	7.250	570.0 -> 419.0	9067	34.398	µg/L		100
PFOS	7.316	499.0 -> 80.0	19477	24.583	µg/L		92
EtFOSAA	7.360	584.0 -> 419.0	7111	29.829	µg/L		100
PFNA	7.419	463.0 -> 419.0	13691	22.998	µg/L		100
PFDA	8.741	513.0 -> 469.0	10985	17.374	µg/L		100
PFDS	9.974	599.0 -> 80.0	3873	21.512	µg/L		100
PFUnDA	10.243	563.0 -> 519.0	8587	20.980	µg/L		100
PFDoDA	11.494	613.0 -> 569.0	7944	16.642	µg/L		100
PFTrDA	12.589	663.0 -> 619.0	7182	21.779	µg/L		100
PFTeDA	13.590	713.0 -> 669.0	4592	22.469	µg/L		100

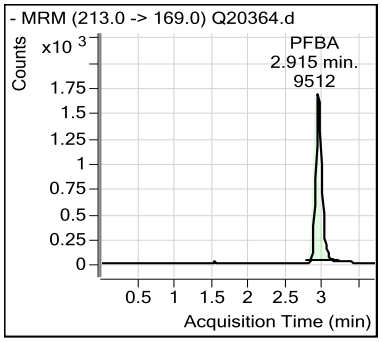
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

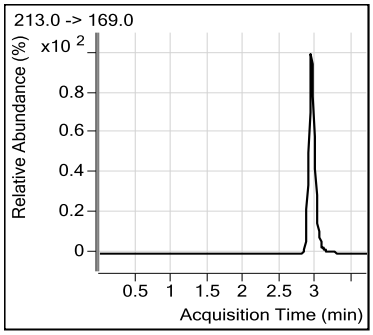
Perfluorinated Compounds by LC/MS/MS.

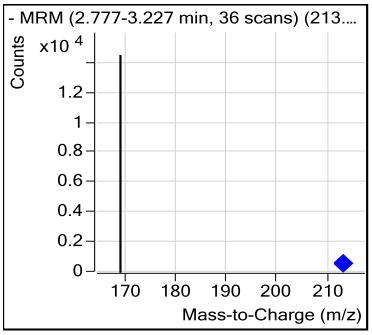
Data File	:	Q20364.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-14 14:36
Sample Name	:	ECC607-20
Vial	:	Vial 2
Sample Info	:	OP59984,SQ609,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ609.batch.bin
Last Calib Update	:	2016-04-13 09:28



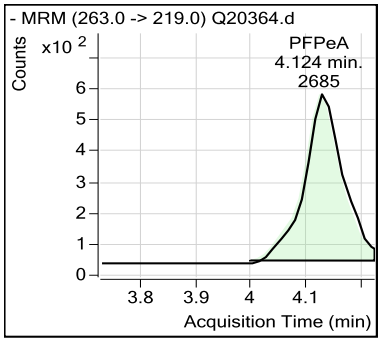
PFBA

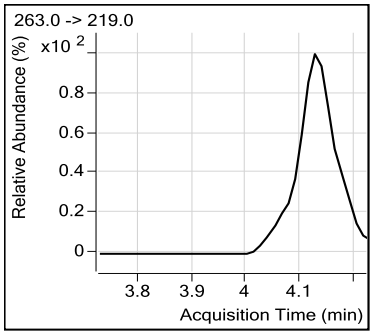


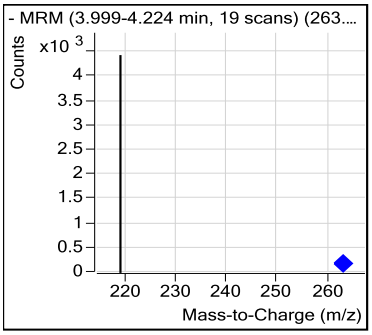




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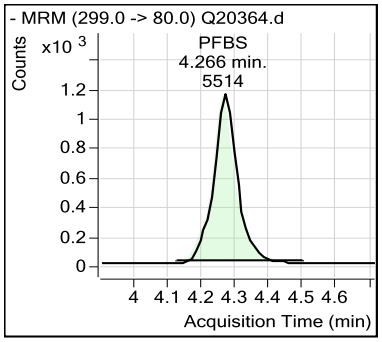


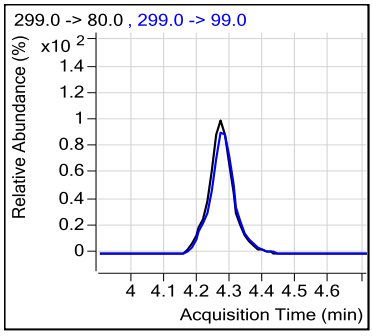


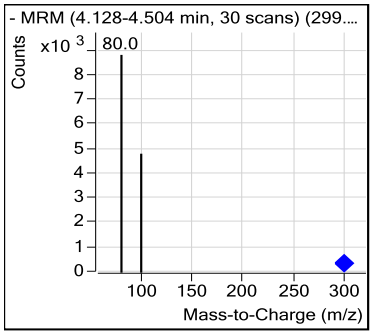


Perfluorinated Compounds by LC/MS/MS.

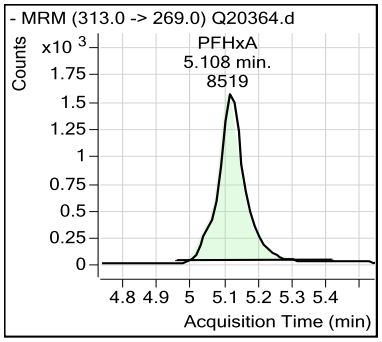
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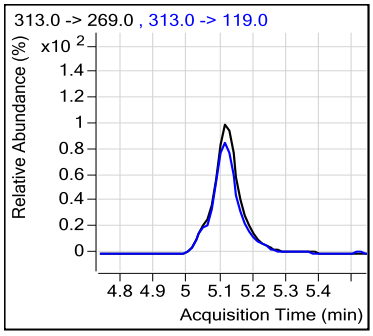


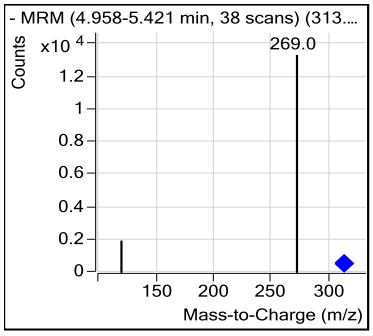




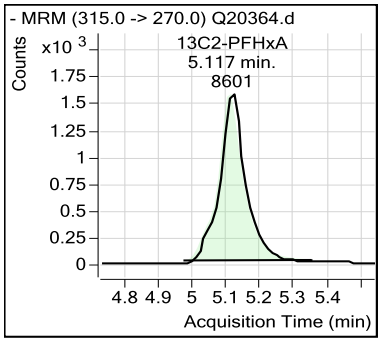
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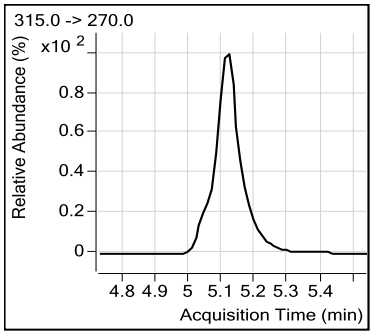


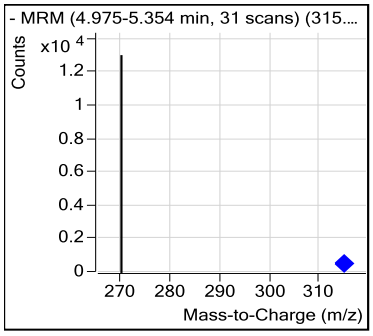




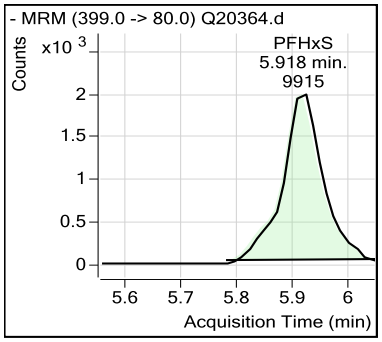
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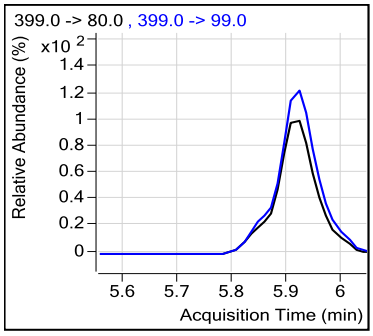


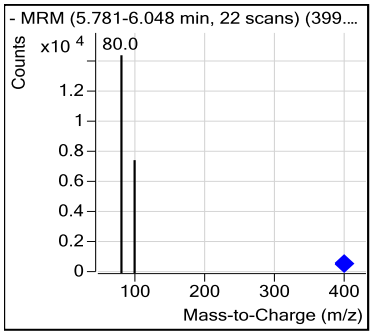




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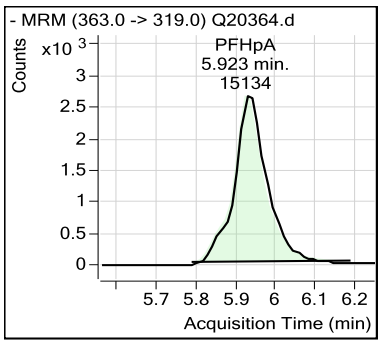


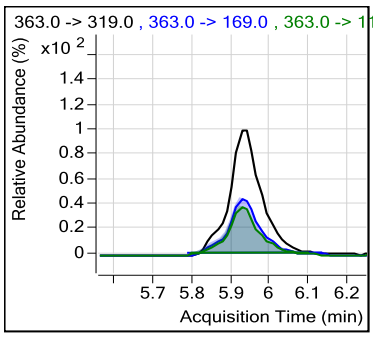


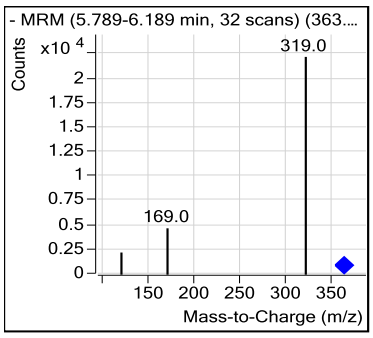


Perfluorinated Compounds by LC/MS/MS.

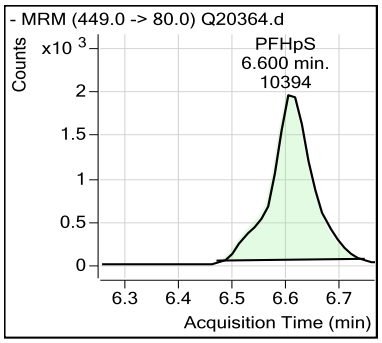
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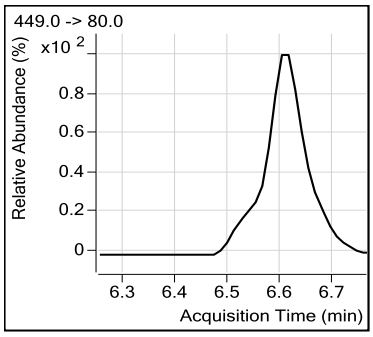


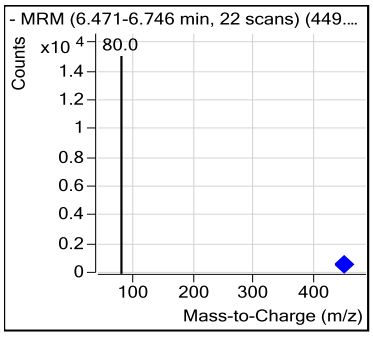




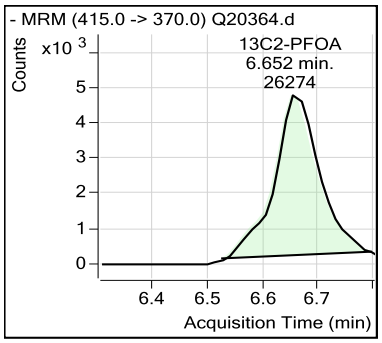
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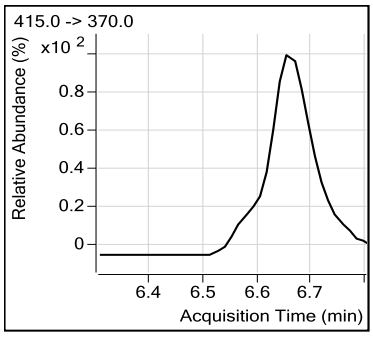


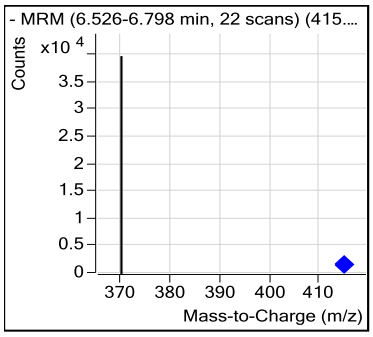




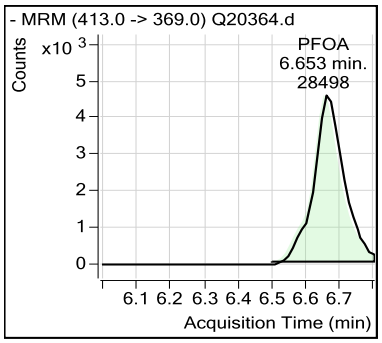
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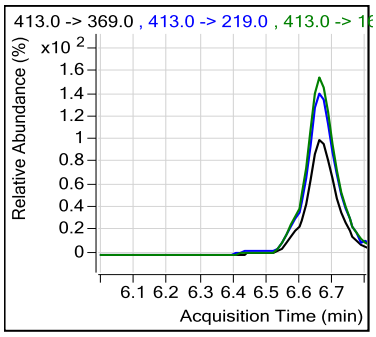


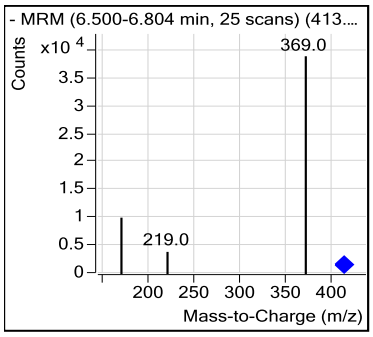




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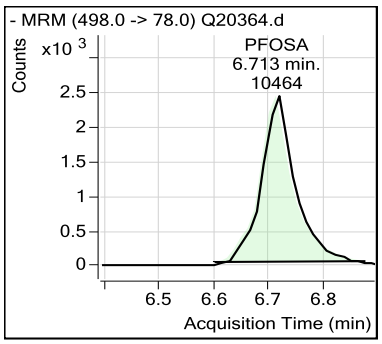


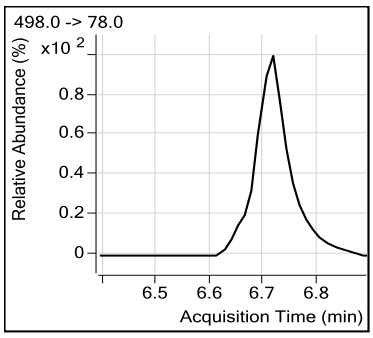


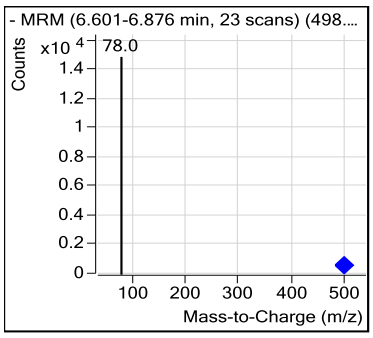


Perfluorinated Compounds by LC/MS/MS.

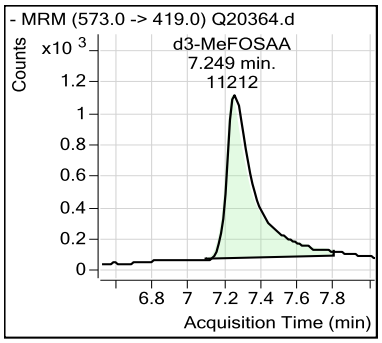
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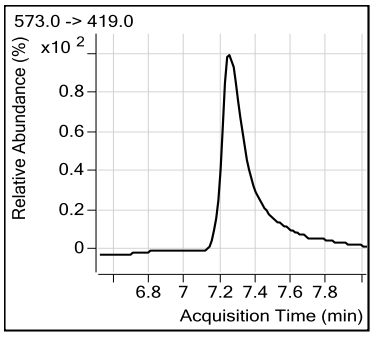


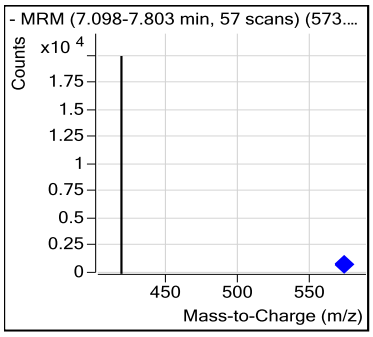




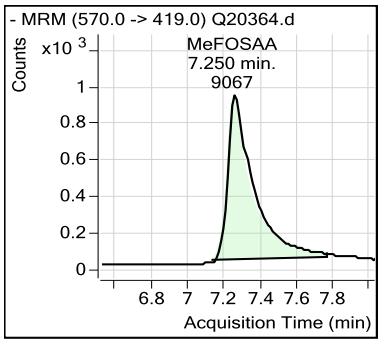
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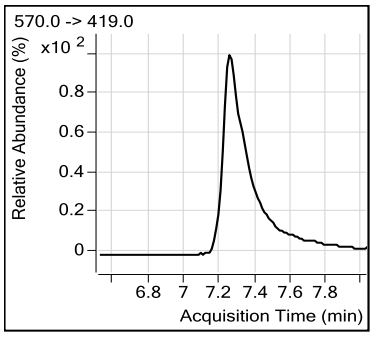


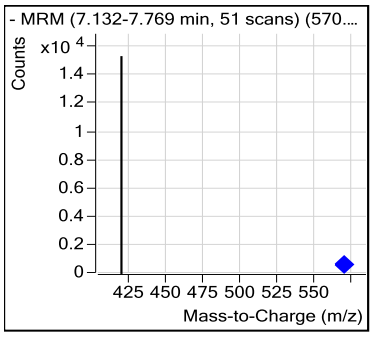




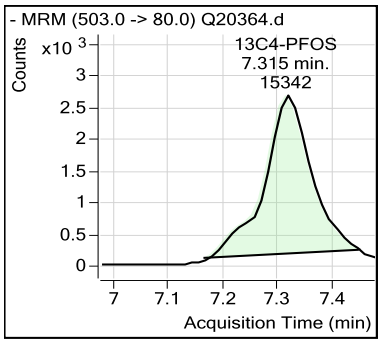
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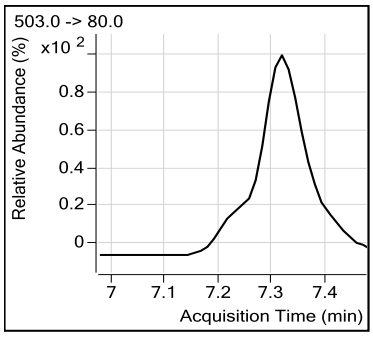


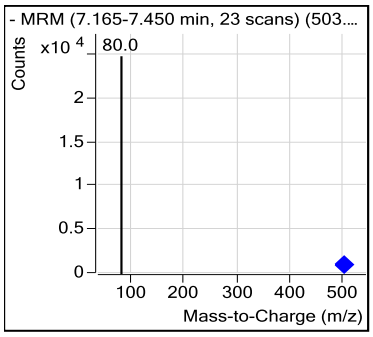




13C4-PFOS

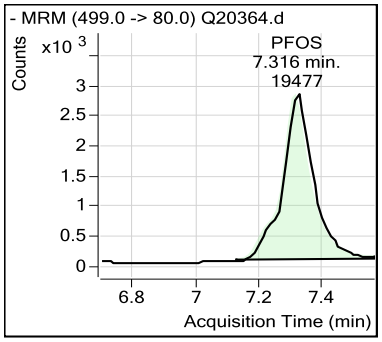


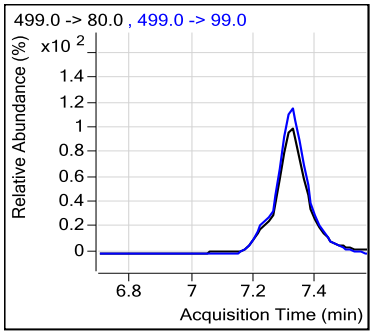


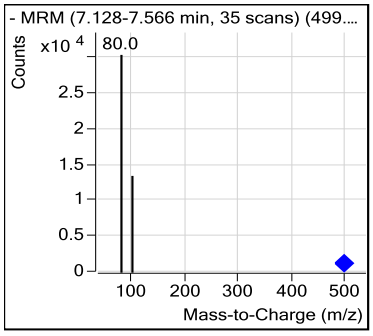


Perfluorinated Compounds by LC/MS/MS.

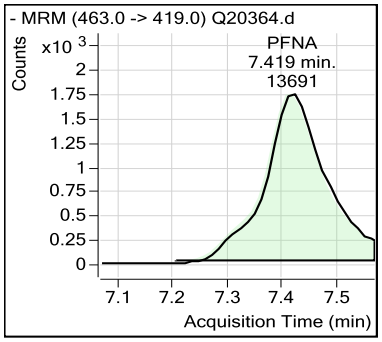
PFOS

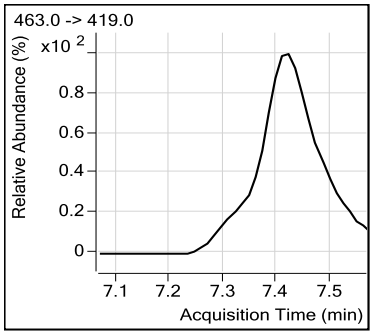


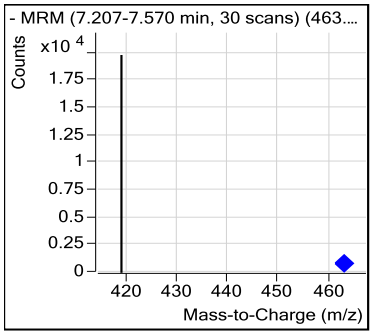




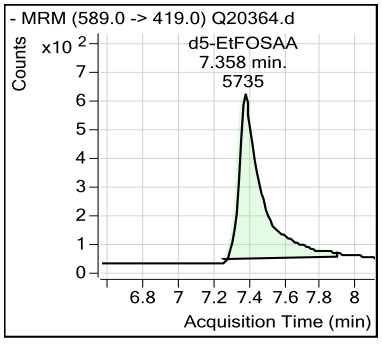
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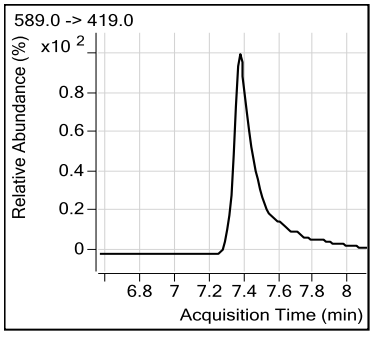


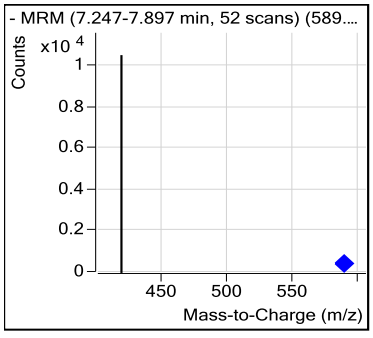




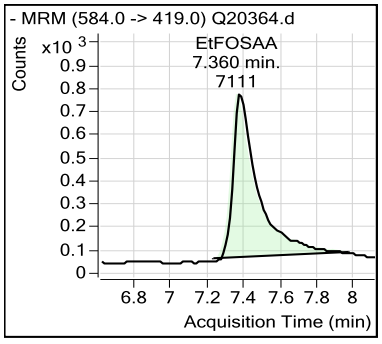
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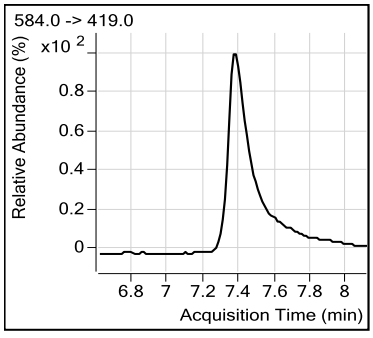


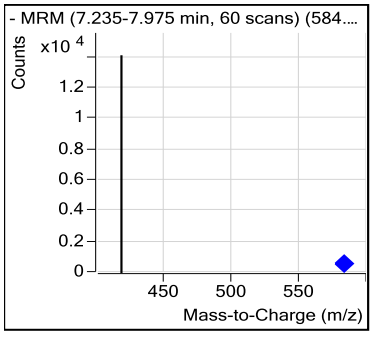




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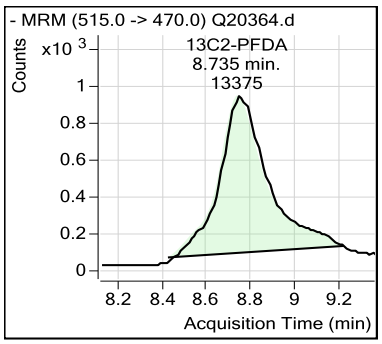


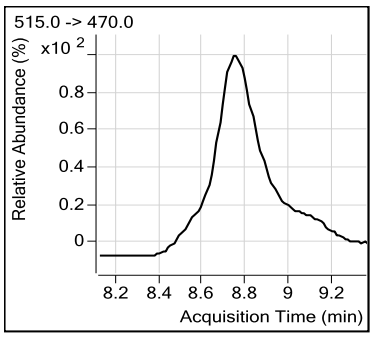


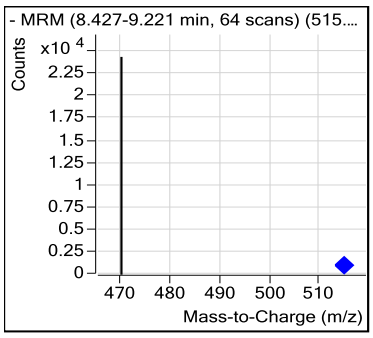


Perfluorinated Compounds by LC/MS/MS.

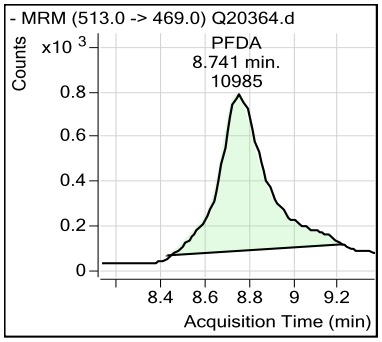
13C2-PFDA

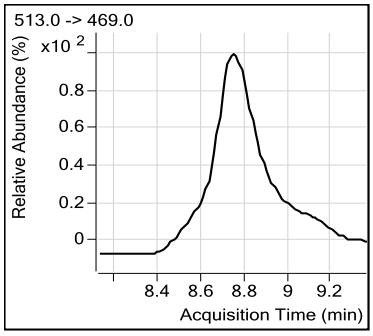


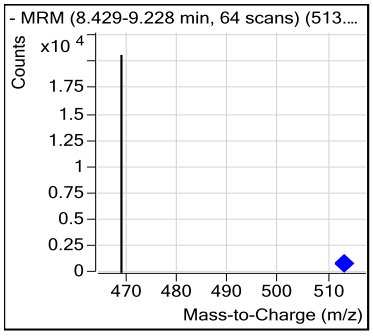




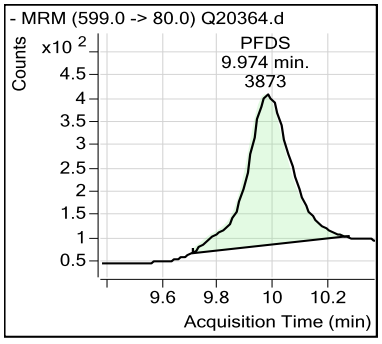
PFDA

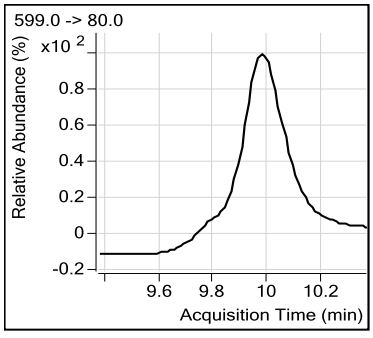


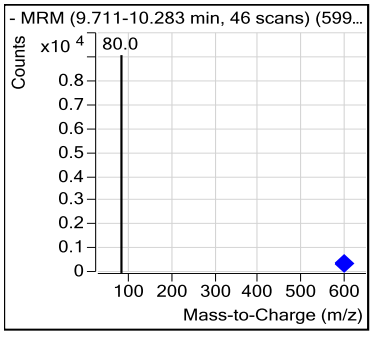




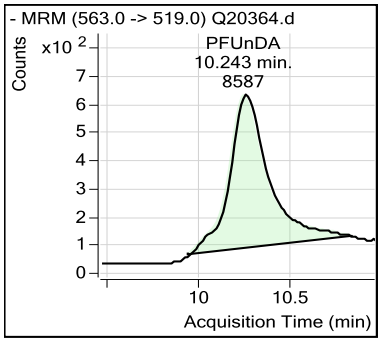
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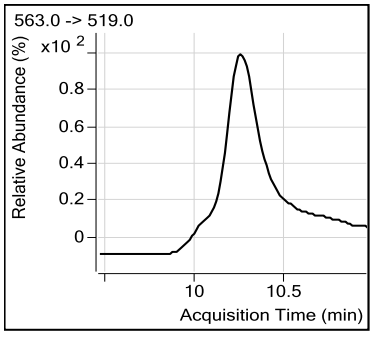


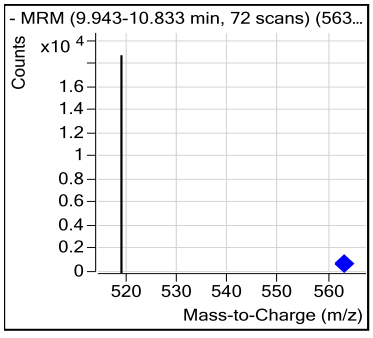




PFUnDA

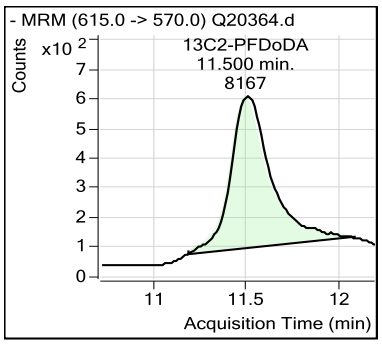


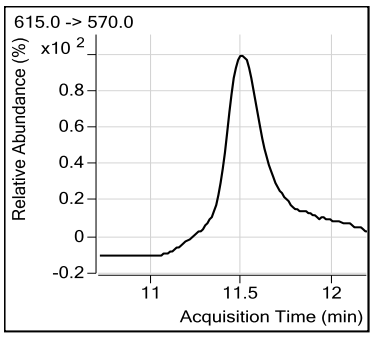


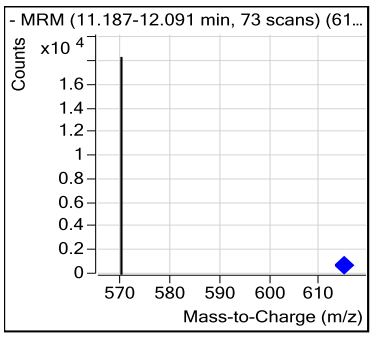


Perfluorinated Compounds by LC/MS/MS.

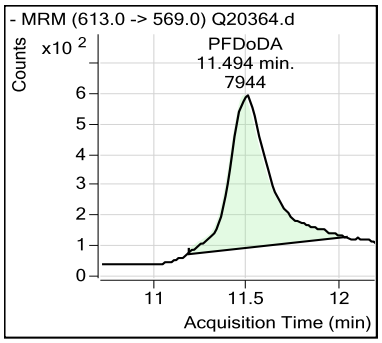
13C2-PFDoDA

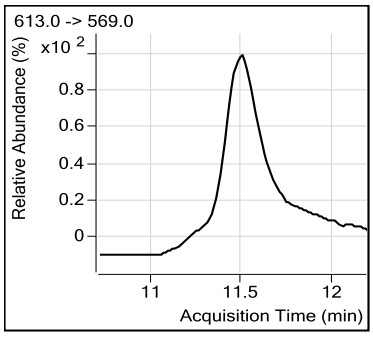


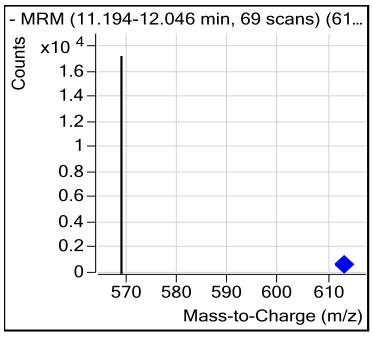




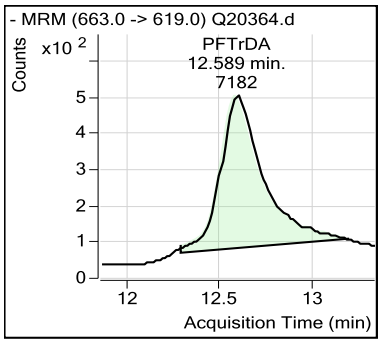
PFDoDA

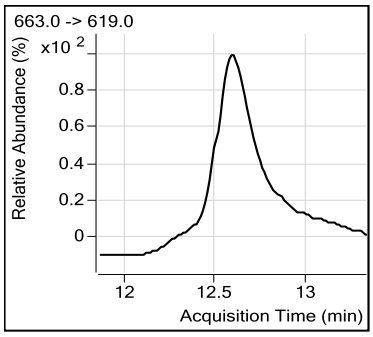


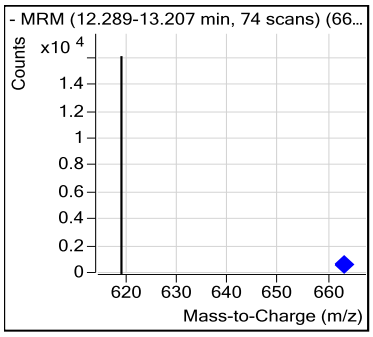




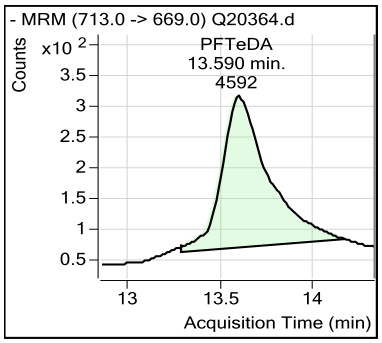
PFTrDA

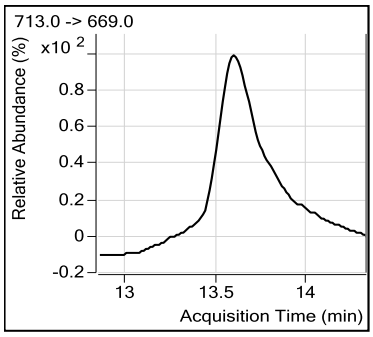


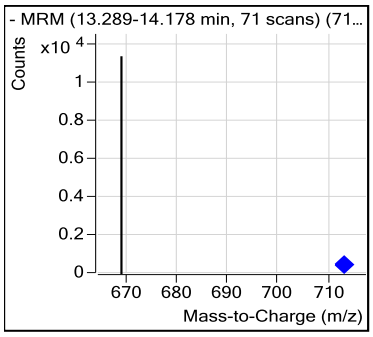




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

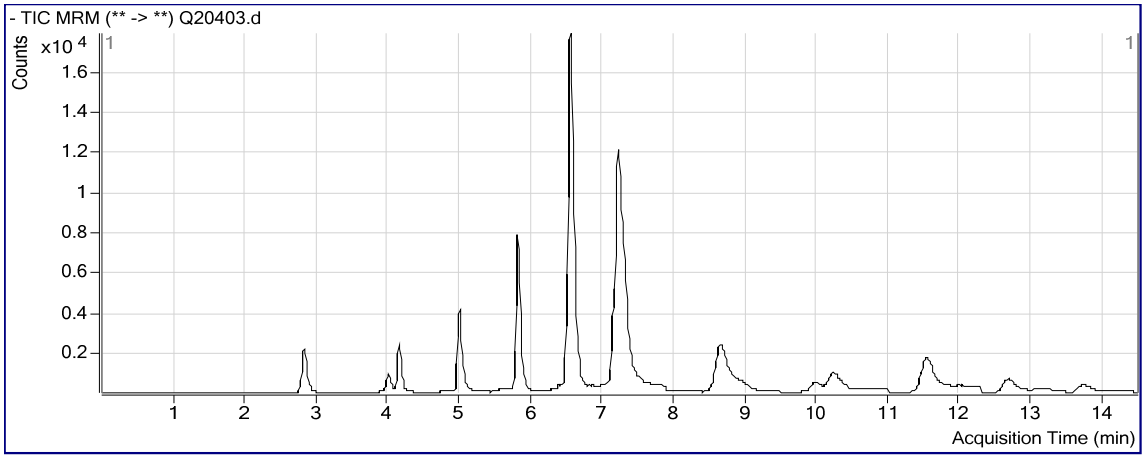
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-18 10:55
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP60102,SQ610,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ611.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
13C2-PFOA	6.576	415.0 -> 370.0	33789	20.000	µg/L	0.039
d3-MeFOSAA	7.161	573.0 -> 419.0	12351	40.000	µg/L	-0.025
13C4-PFOS	7.239	503.0 -> 80.0	19057	20.000	µg/L	0.050
13C2-PFDoDA	11.562	615.0 -> 570.0	11316	20.000	µg/L	0.250
System Monitoring Compounds						
13C2-PFHxA	5.017	315.0 -> 270.0	8417	19.35	µg/L	0.025
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 96.77%			
d5-EtFOSAA	7.283	589.0 -> 419.0	10695	44.14	µg/L	-0.013
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 110.35%			
13C2-PFDA	8.672	515.0 -> 470.0	17587	16.93	µg/L	0.175
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 84.65%			
Target Compounds						**Qvalue**
PFBA	2.840	213.0 -> 169.0	11562	22.613	µg/L	100
PFPeA	4.024	263.0 -> 219.0	3956	25.254	µg/L	100
PFBS	4.166	299.0 -> 80.0	6596	20.515	µg/L	94
PFHxA	5.021	313.0 -> 269.0	9140	21.066	µg/L	98
PFHxS	5.830	399.0 -> 80.0	10092	17.984	µg/L	85
PFHpA	5.835	363.0 -> 319.0	13650	16.930	µg/L	79
PFHpS	6.525	449.0 -> 80.0	11763	19.270	µg/L	100
PFOA	6.578	413.0 -> 369.0	33546	21.335	µg/L	83
PFOSA	6.637	498.0 -> 78.0	11813	17.566	µg/L	100
MeFOSAA	7.175	570.0 -> 419.0	12765	44.505	µg/L	100
PFOS	7.241	499.0 -> 80.0	20369	20.697	µg/L	89
EtFOSAA	7.284	584.0 -> 419.0	11262	44.030	µg/L	100
PFNA	7.331	463.0 -> 419.0	17903	23.385	µg/L	100
PFDA	8.678	513.0 -> 469.0	14700	18.080	µg/L	100
PFDS	9.998	599.0 -> 80.0	4729	18.958	µg/L	100
PFUnDA	10.255	563.0 -> 519.0	12142	21.410	µg/L	100
PFDoDA	11.569	613.0 -> 569.0	10890	16.464	µg/L	100
PFTrDA	12.701	663.0 -> 619.0	9319	20.397	µg/L	100
PFTeDA	13.764	713.0 -> 669.0	5850	20.661	µg/L	100

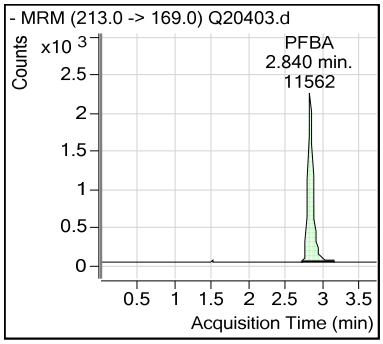
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

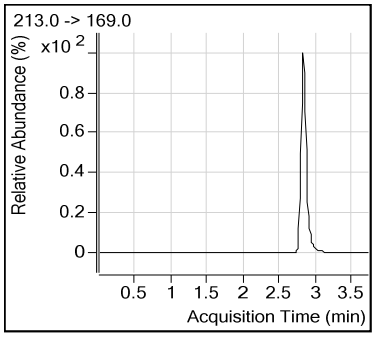
Perfluorinated Compounds by LC/MS/MS.

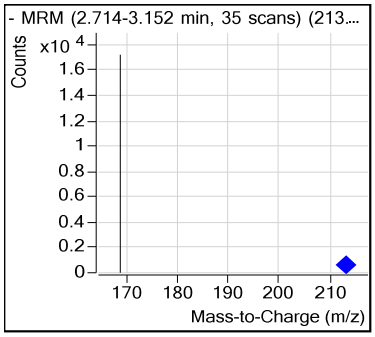
Data File	:	Q20403.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-18 10:55
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP60102,SQ610,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ611.batch.bin
Last Calib Update	:	2016-04-13 09:28



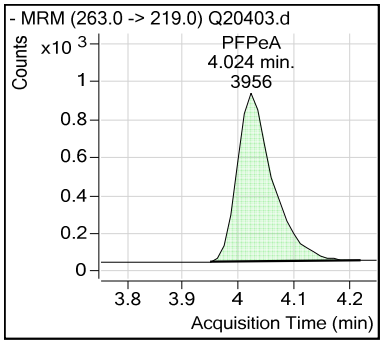
PFBA

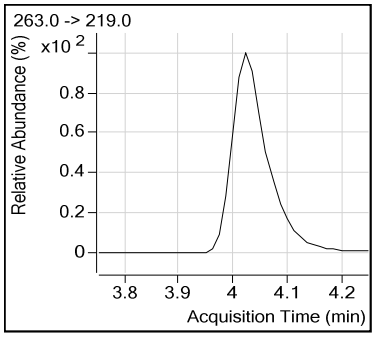


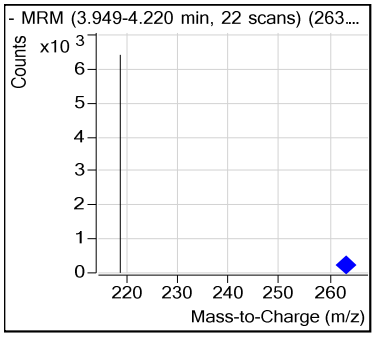




PFPeA

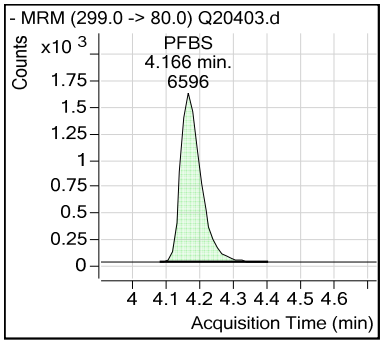


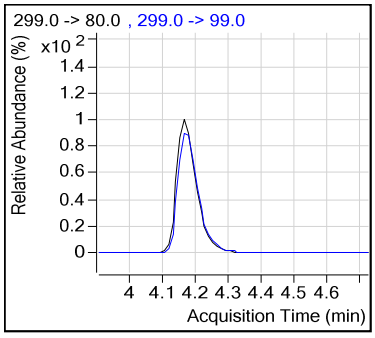


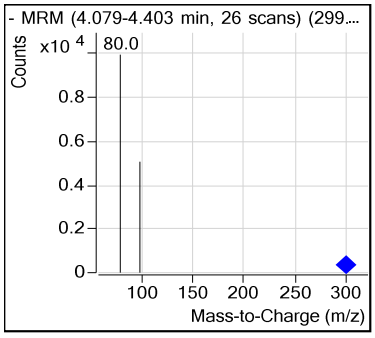


Perfluorinated Compounds by LC/MS/MS.

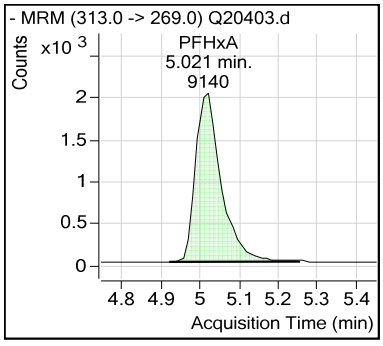
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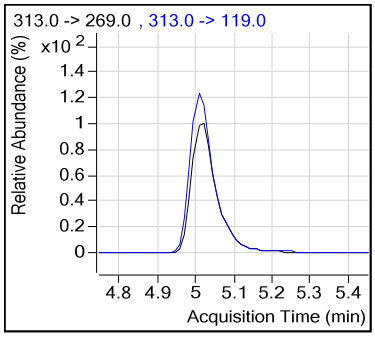


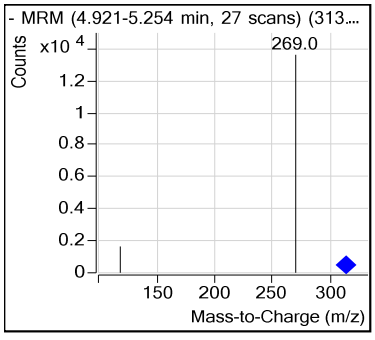




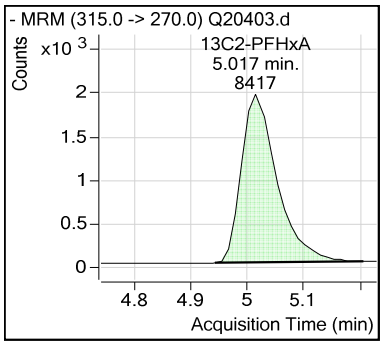
PFHxA

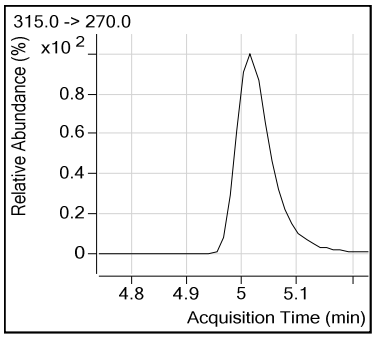


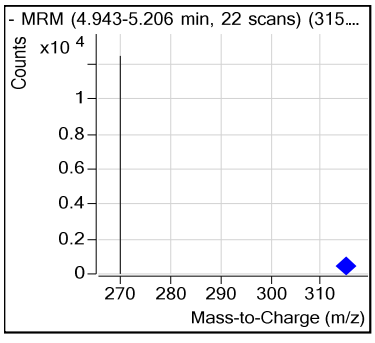




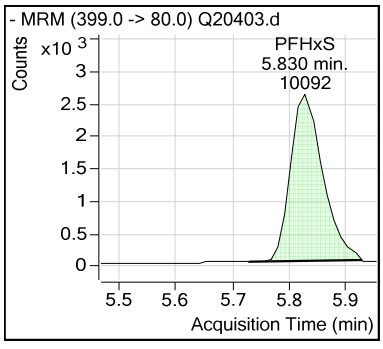
13C2-PFHxA

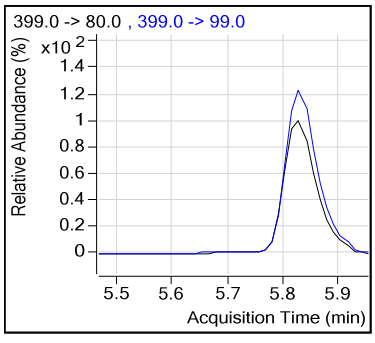


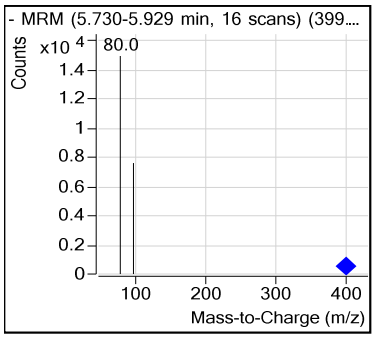




PFHxS

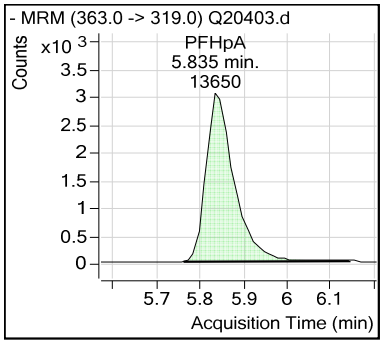


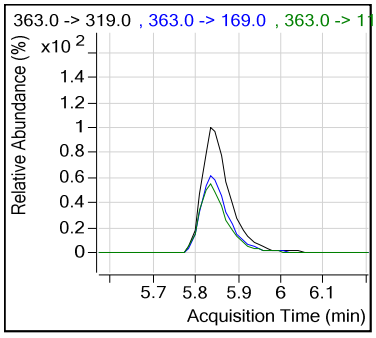


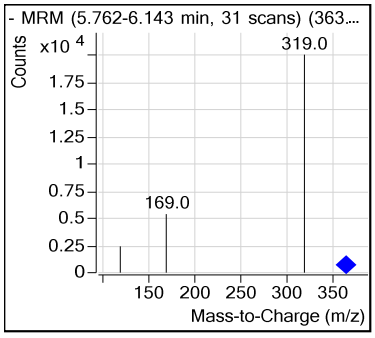


Perfluorinated Compounds by LC/MS/MS.

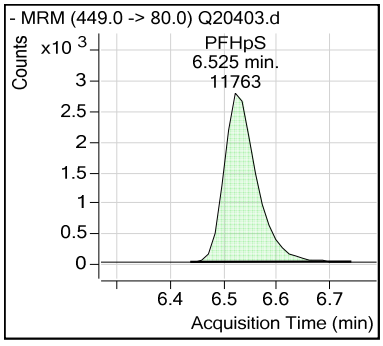
PFHpA

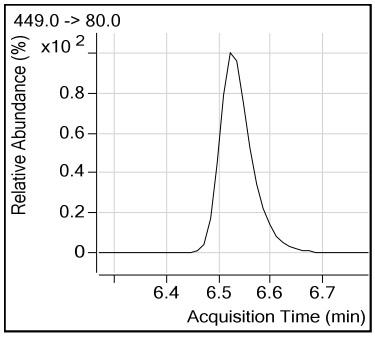


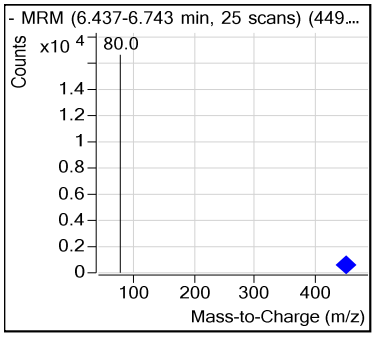




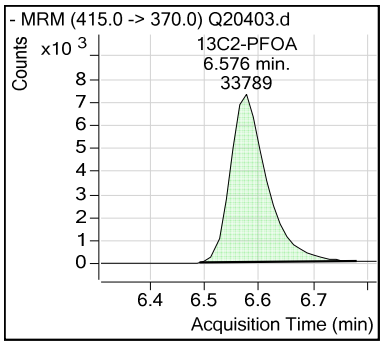
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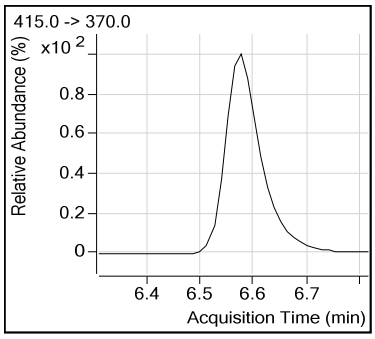


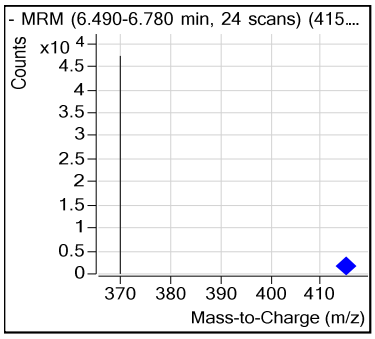




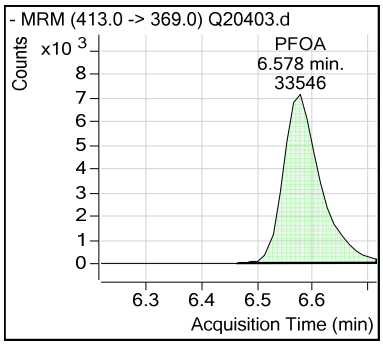
13C2-PFOA

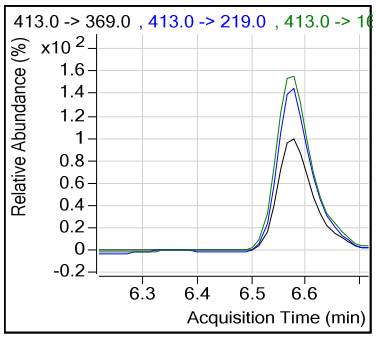


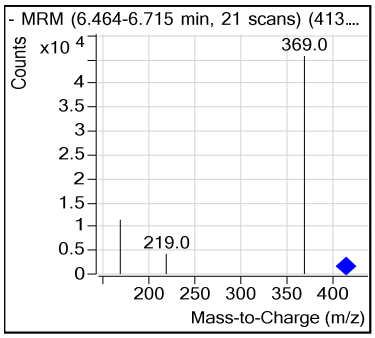




PFOA

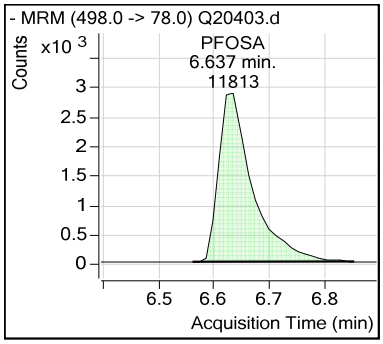


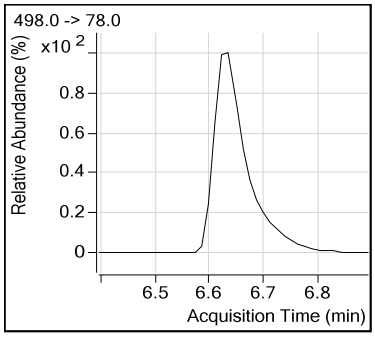


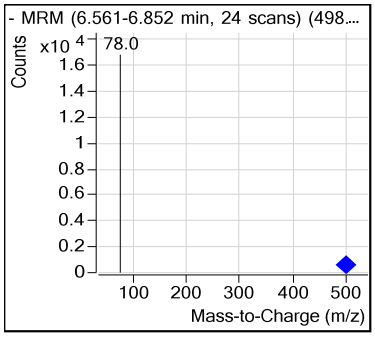


Perfluorinated Compounds by LC/MS/MS.

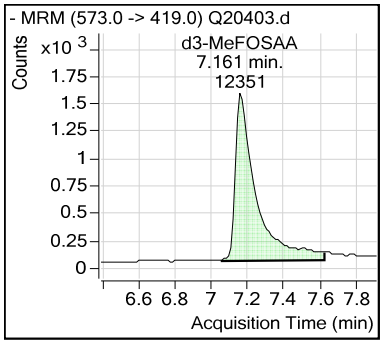
PFOSA

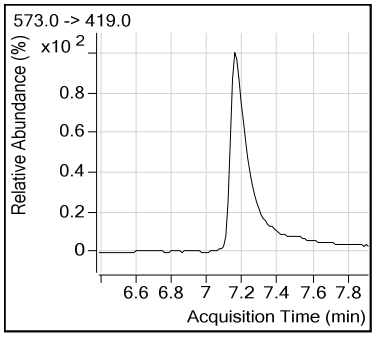


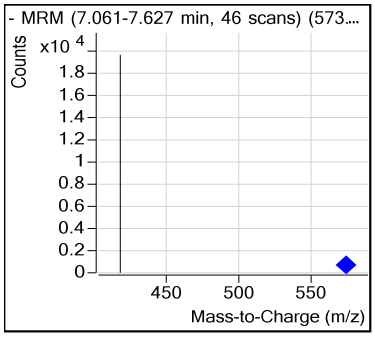




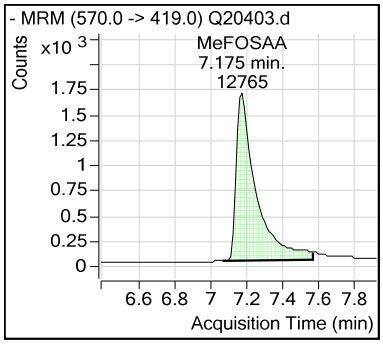
d3-MeFOSAA

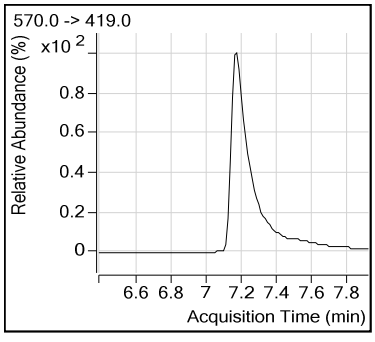


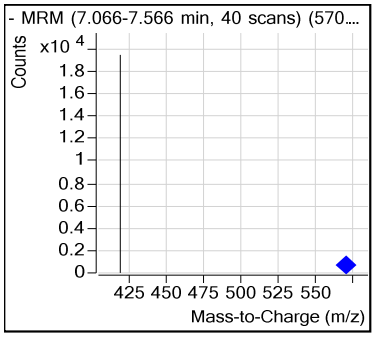




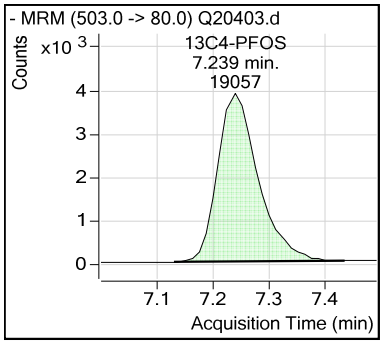
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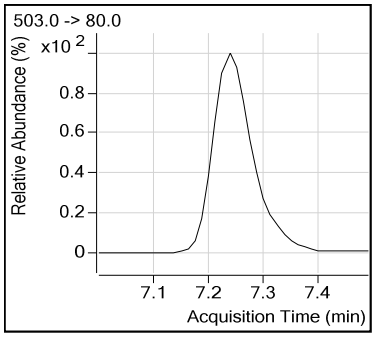


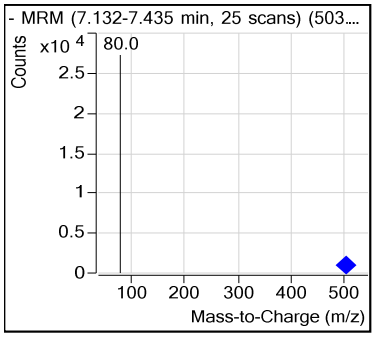




13C4-PFOS

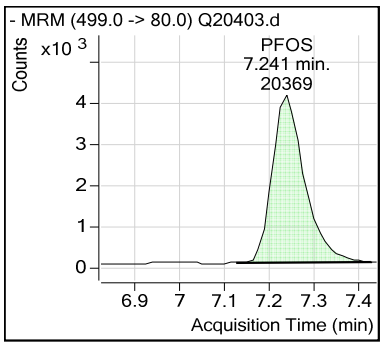


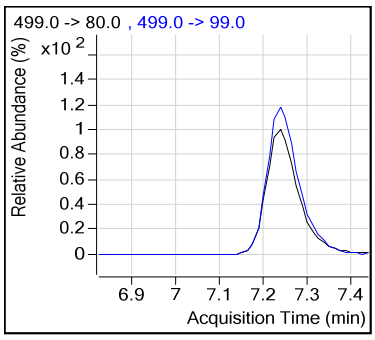


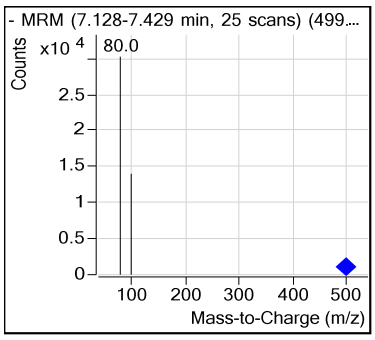


Perfluorinated Compounds by LC/MS/MS.

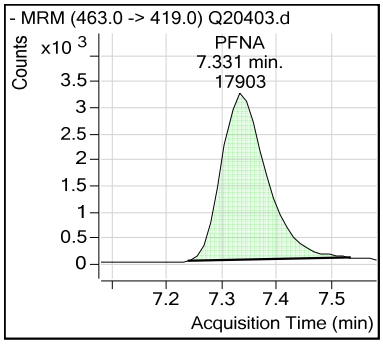
PFOS

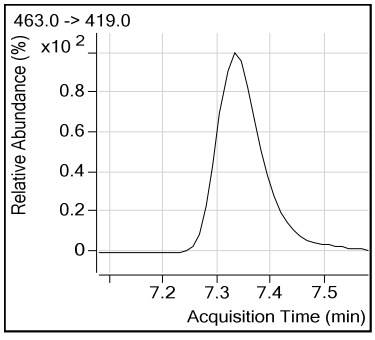


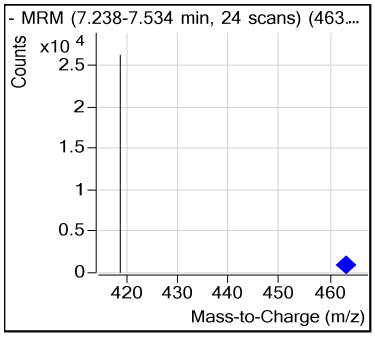




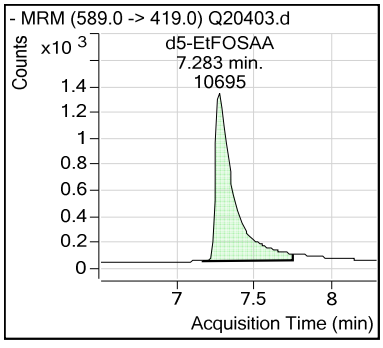
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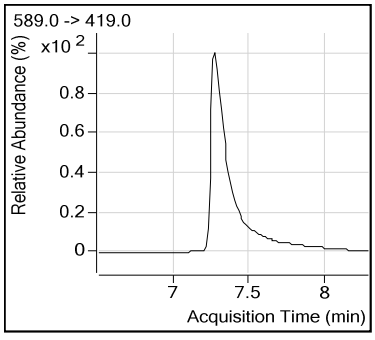


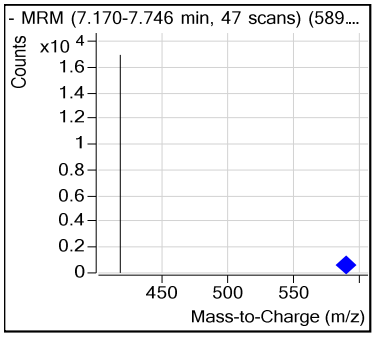




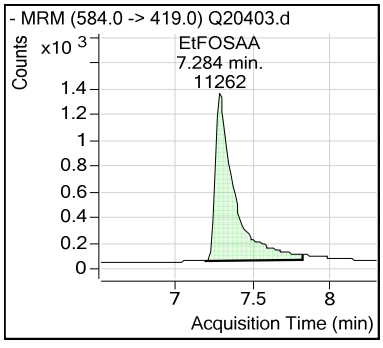
d5-EtFOSAA

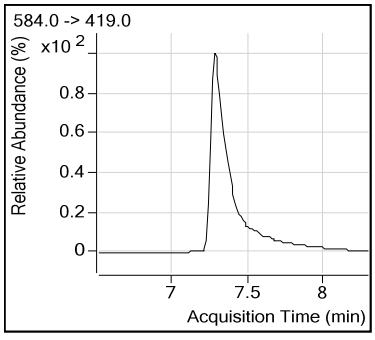


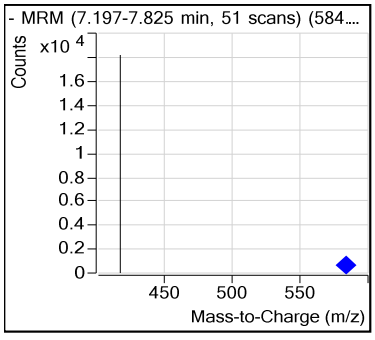




EtFOSAA

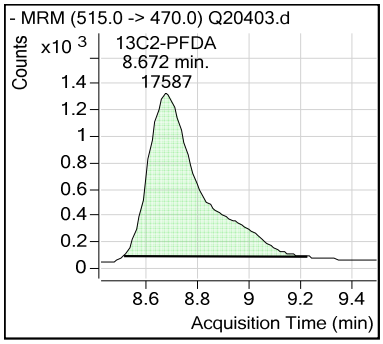


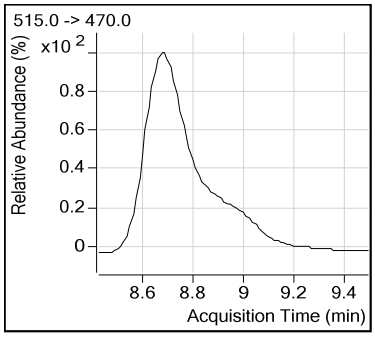


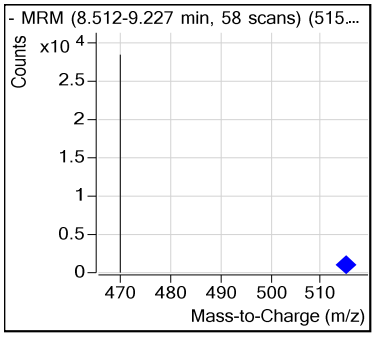


Perfluorinated Compounds by LC/MS/MS.

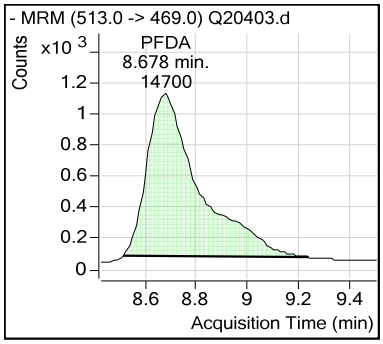
13C2-PFDA

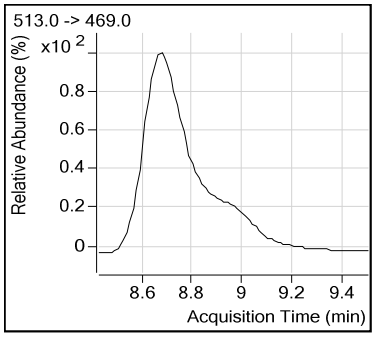


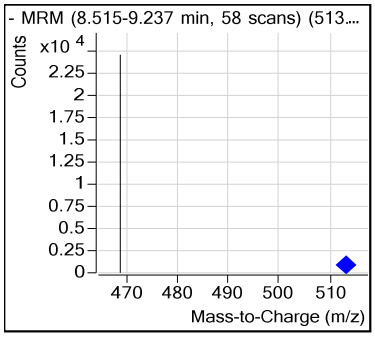




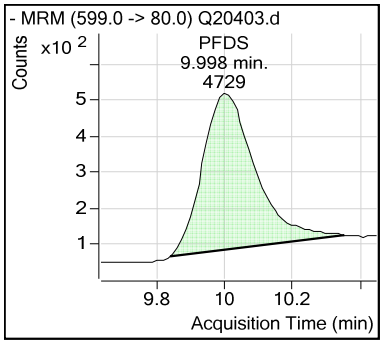
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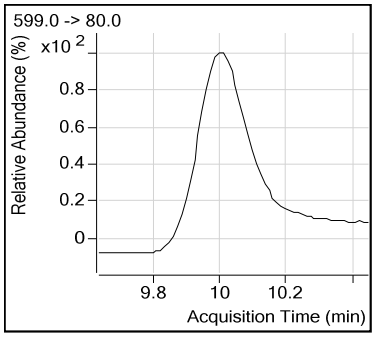


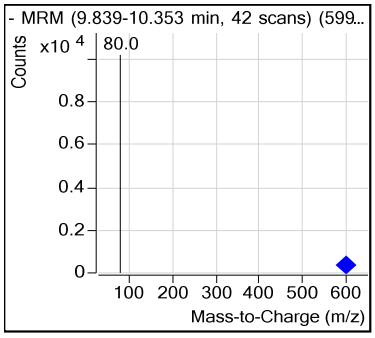




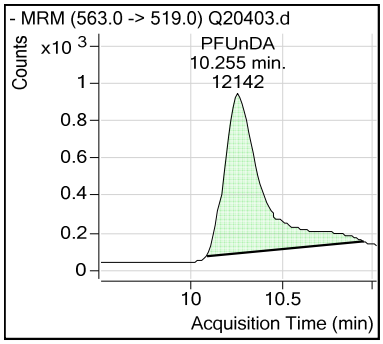
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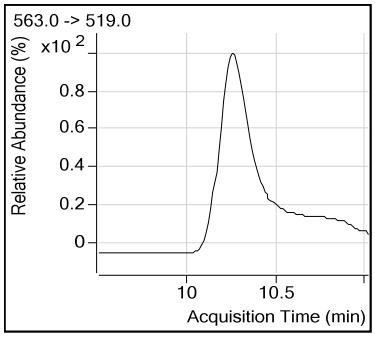


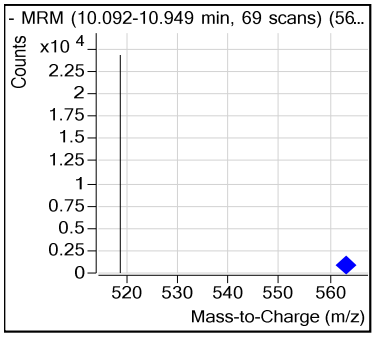




PFUnDA

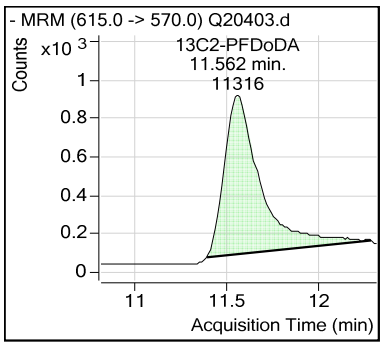


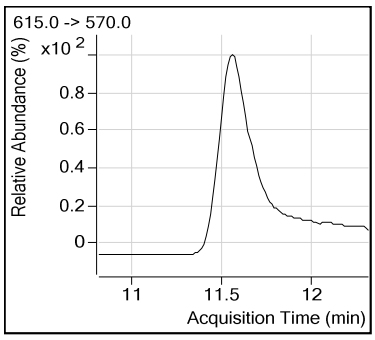


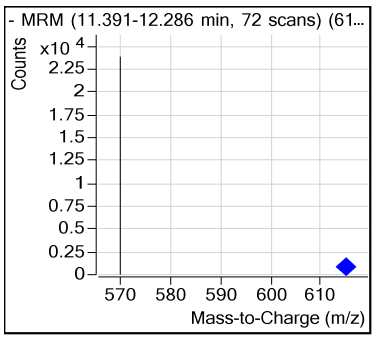


Perfluorinated Compounds by LC/MS/MS.

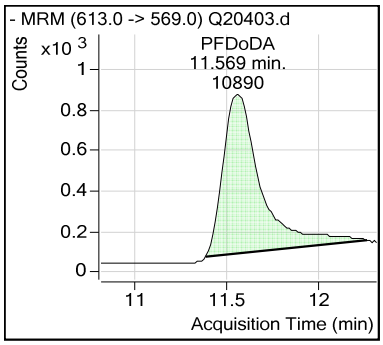
13C2-PFDoDA

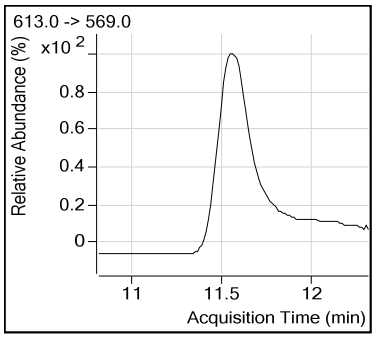


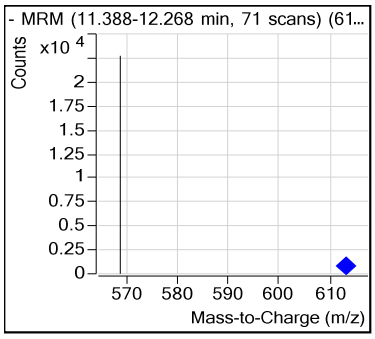




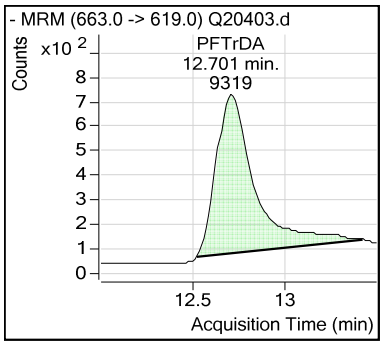
PFDoDA

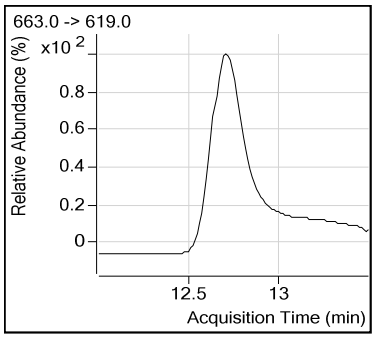


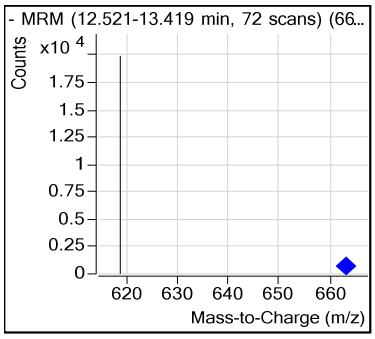




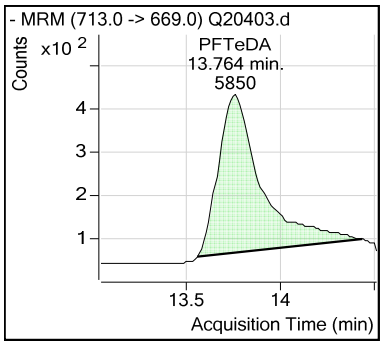
PFTrDA

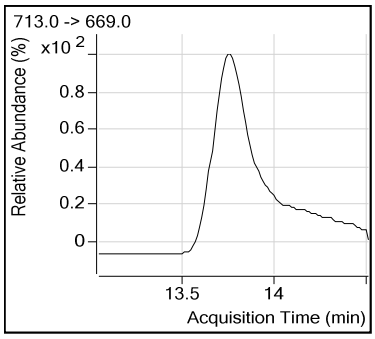


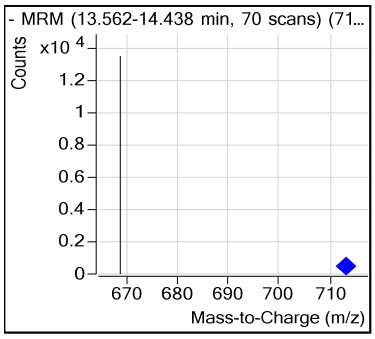




PFTeDA







Perfluorinated Compounds by LC/MS/MS.

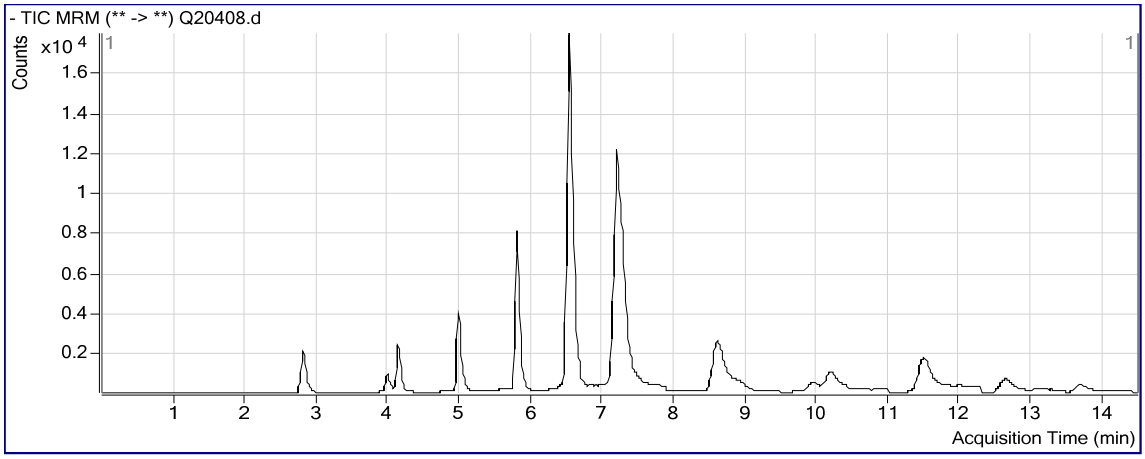
Data File	:	Q20408.d
Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-18 12:52
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP60102,SQ610,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ611.batch.bin
Last Calib Update	:	2016-04-13 09:28

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
13C2-PFOA	6.564	415.0 -> 370.0	34938	20.000	µg/L	0.026
d3-MeFOSAA	7.161	573.0 -> 419.0	13234	40.000	µg/L	-0.025
13C4-PFOS	7.227	503.0 -> 80.0	19351	20.000	µg/L	0.037
13C2-PFDoDA	11.525	615.0 -> 570.0	11752	20.000	µg/L	0.213
System Monitoring Compounds						
13C2-PFHxA	5.004	315.0 -> 270.0	8314	18.49	µg/L	0.013
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 92.45%			
d5-EtFOSAA	7.270	589.0 -> 419.0	10070	38.57	µg/L	-0.025
Spiked Amount: 40.000	Range: 0 - 0		Recovery = 96.43%			
13C2-PFDA	8.635	515.0 -> 470.0	18058	16.81	µg/L	0.137
Spiked Amount: 20.000	Range: 14 - 26		Recovery = 84.06%			
Target Compounds						**Qvalue**
PFBA	2.827	213.0 -> 169.0	10959	20.729	µg/L	100
PFPeA	4.011	263.0 -> 219.0	3664	22.619	µg/L	100
PFBS	4.153	299.0 -> 80.0	6654	20.382	µg/L	94
PFHxA	5.008	313.0 -> 269.0	8943	19.934	µg/L	99
PFHxS	5.818	399.0 -> 80.0	10748	18.863	µg/L	87
PFHpA	5.823	363.0 -> 319.0	14332	17.192	µg/L	78
PFHpS	6.511	449.0 -> 80.0	12287	19.824	µg/L	100
PFOA	6.565	413.0 -> 369.0	34175	21.020	µg/L	82
PFOSA	6.624	498.0 -> 78.0	12106	16.800	µg/L	100
MeFOSAA	7.162	570.0 -> 419.0	12407	40.235	µg/L	100
PFOS	7.228	499.0 -> 80.0	20897	20.912	µg/L	90
EtFOSAA	7.284	584.0 -> 419.0	10373	37.580	µg/L	100
PFNA	7.319	463.0 -> 419.0	17753	22.427	µg/L	100
PFDA	8.628	513.0 -> 469.0	14839	17.651	µg/L	100
PFDS	9.961	599.0 -> 80.0	4900	18.915	µg/L	100
PFUnDA	10.217	563.0 -> 519.0	12651	21.481	µg/L	100
PFDoDA	11.519	613.0 -> 569.0	11160	16.246	µg/L	100
PFTrDA	12.663	663.0 -> 619.0	9630	20.294	µg/L	100
PFTeDA	13.714	713.0 -> 669.0	5988	20.363	µg/L	100

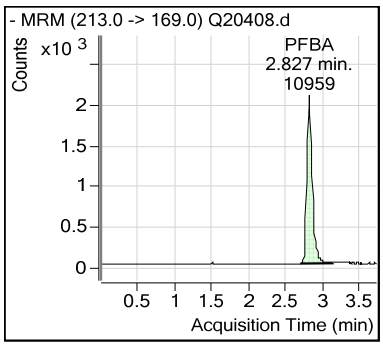
(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed

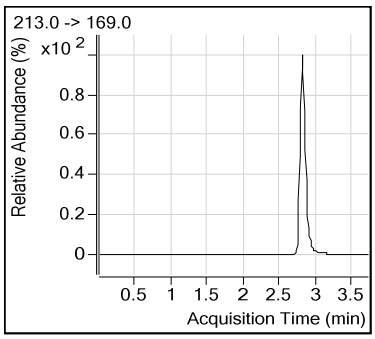
Perfluorinated Compounds by LC/MS/MS.

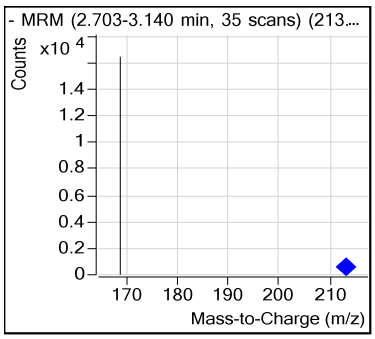
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Operator	:	NANCYF
Acq Method Name	:	dMRM_PFOA_PFOS_LIST.m
Acquisition date	:	2016-04-18 12:52
Sample Name	:	CC607-20
Vial	:	Vial 2
Sample Info	:	OP60102,SQ610,130,,,1.0,1,WATER
Quant Method	:	PFC_LIST_412_SQ607.quantmethod.xml
Quant Batch Name	:	SQ611.batch.bin
Last Calib Update	:	2016-04-13 09:28



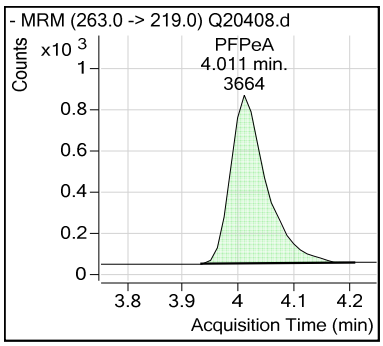
PFBA

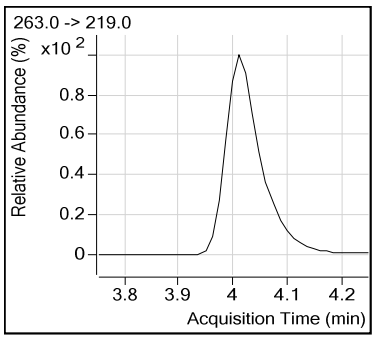


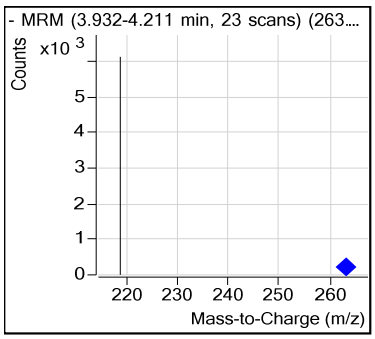




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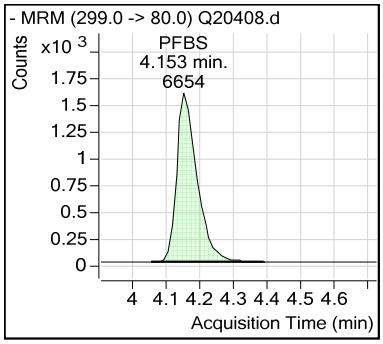


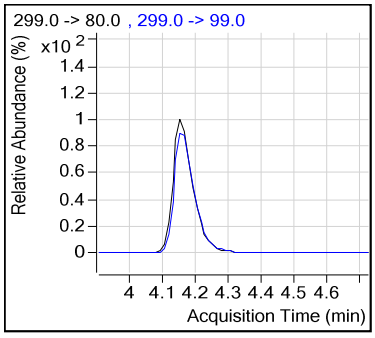


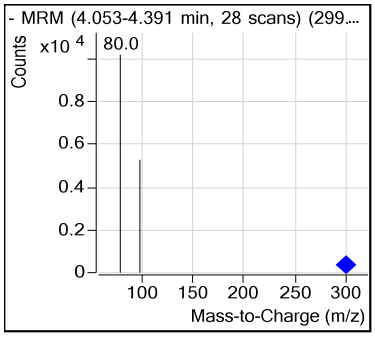


Perfluorinated Compounds by LC/MS/MS.

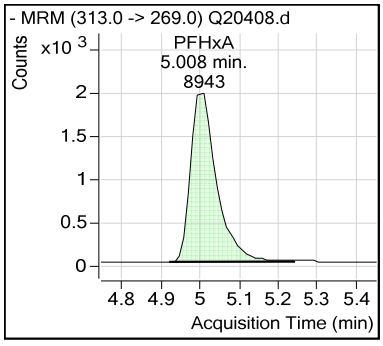
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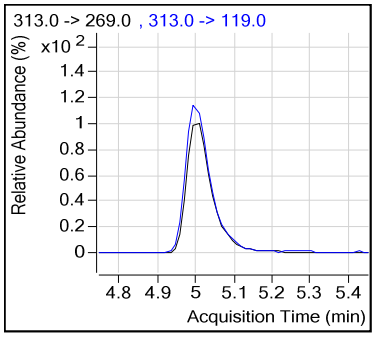


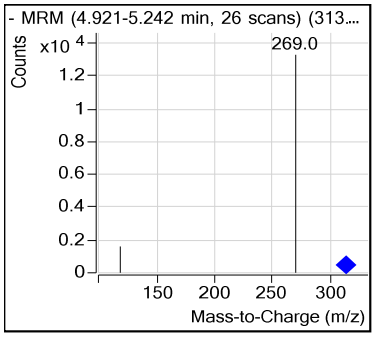




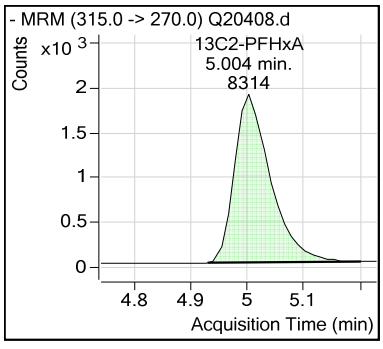
PFHxA

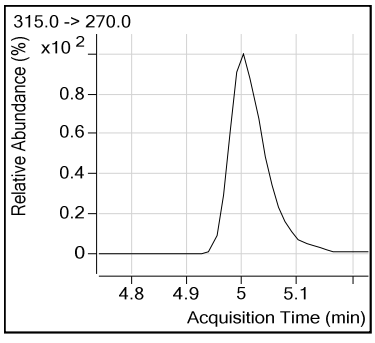


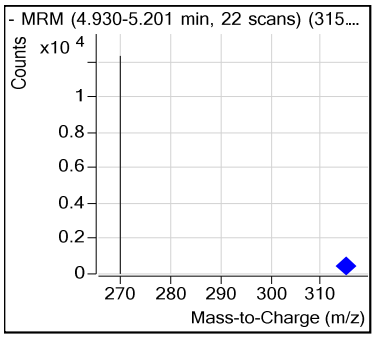




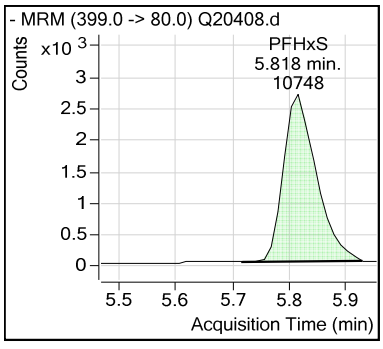
13C2-PFHxA

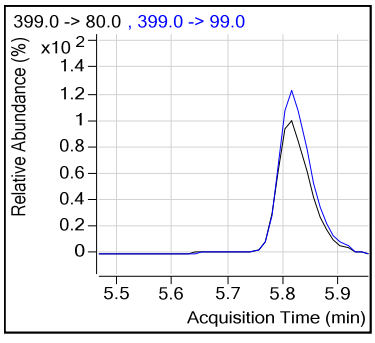


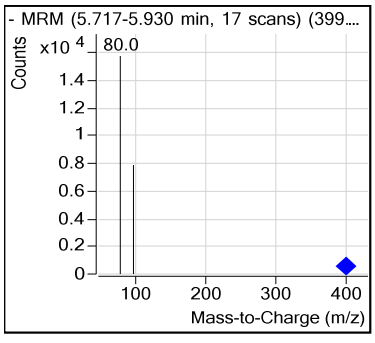




PFHxS





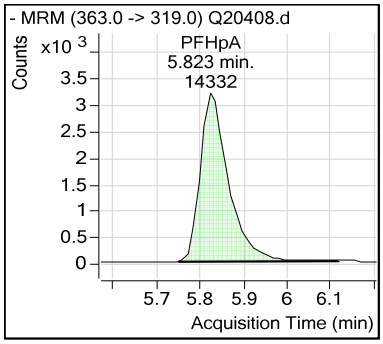


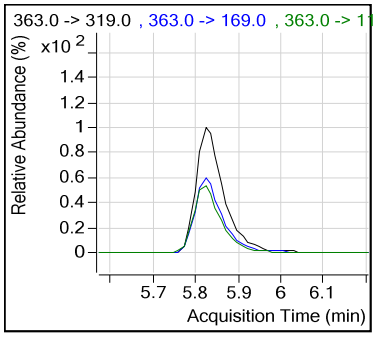
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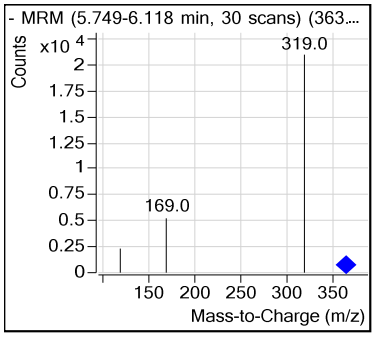
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Perfluorinated Compounds by LC/MS/MS.

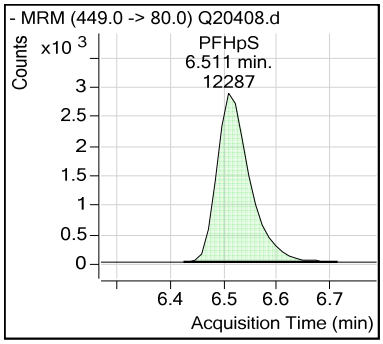
PFHpA

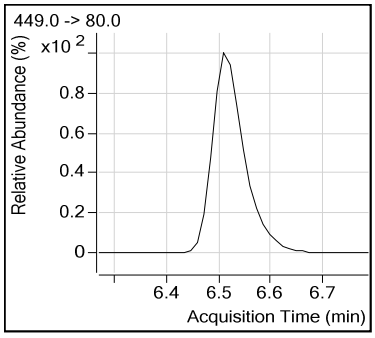


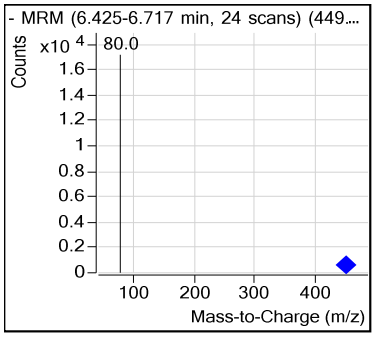




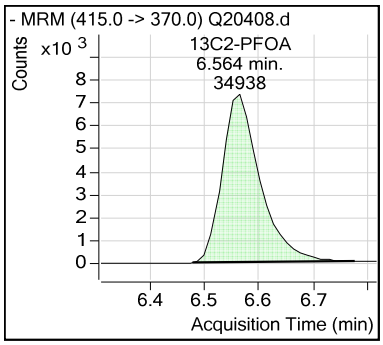
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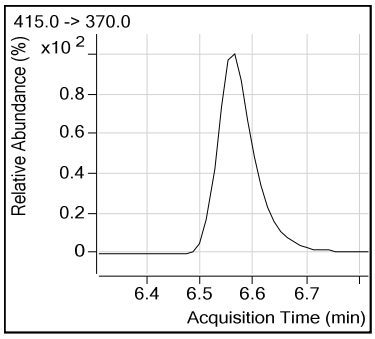


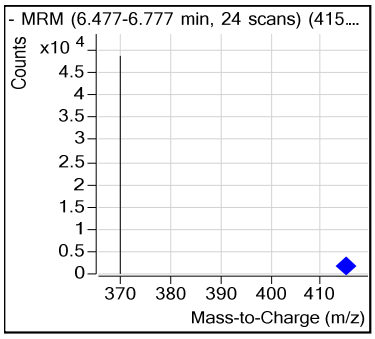




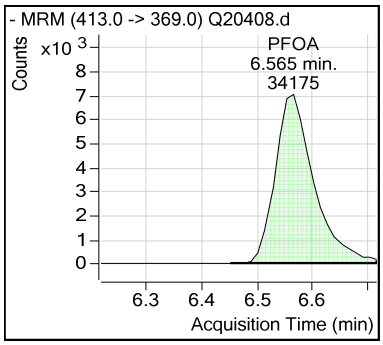
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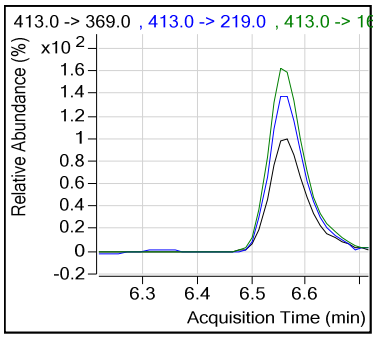


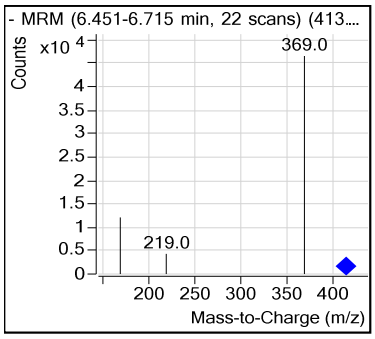




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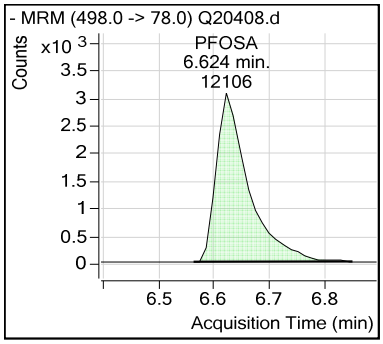


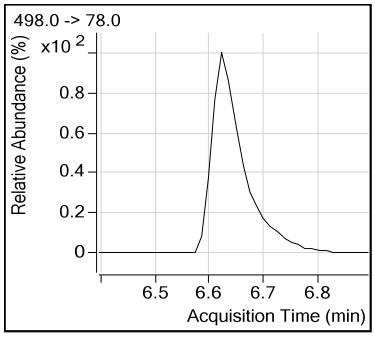


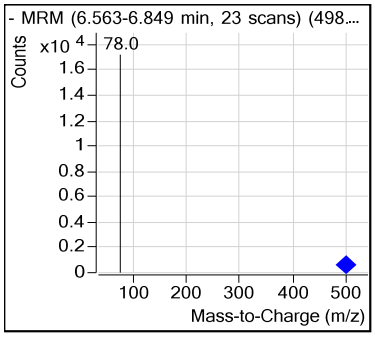


Perfluorinated Compounds by LC/MS/MS.

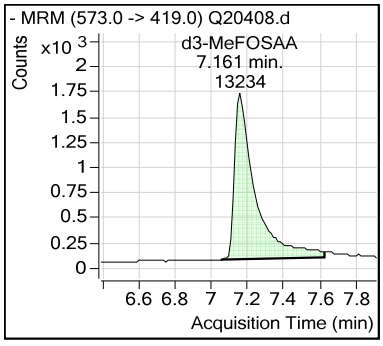
PFOSA

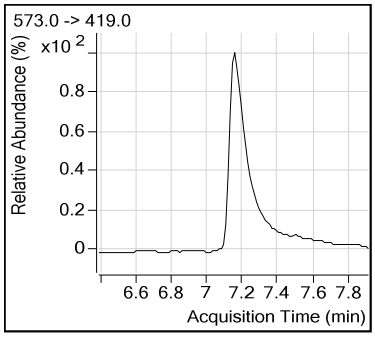


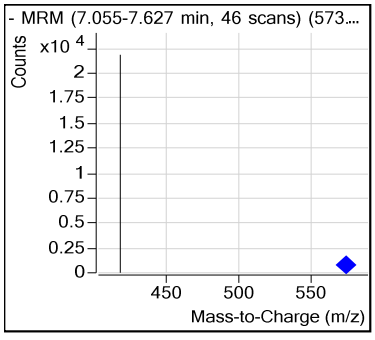




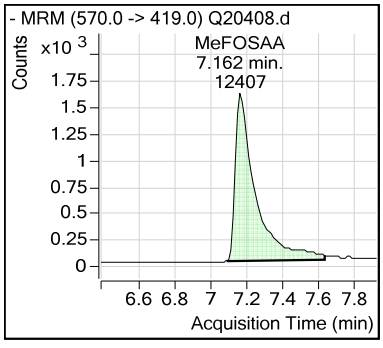
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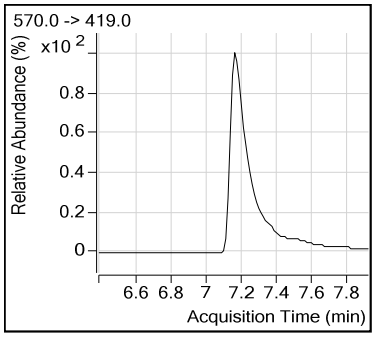


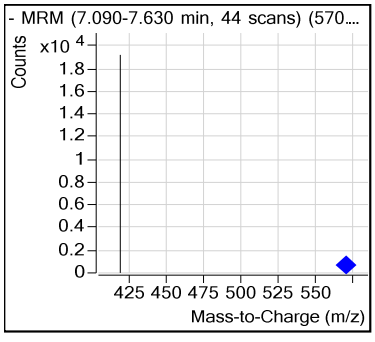




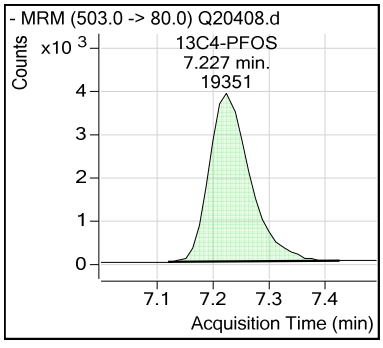
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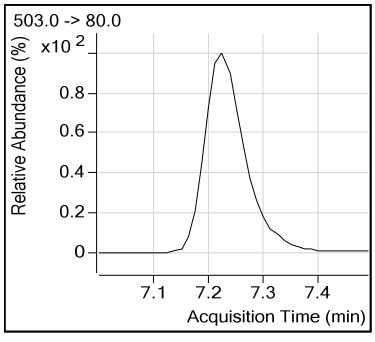


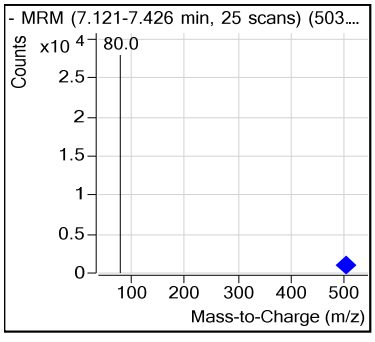




13C4-PFOS

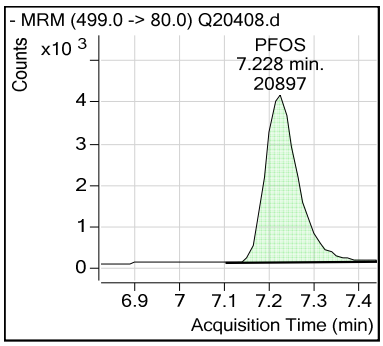


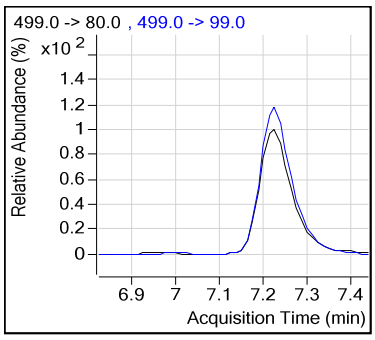


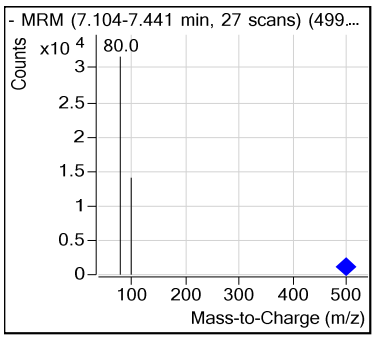


Perfluorinated Compounds by LC/MS/MS.

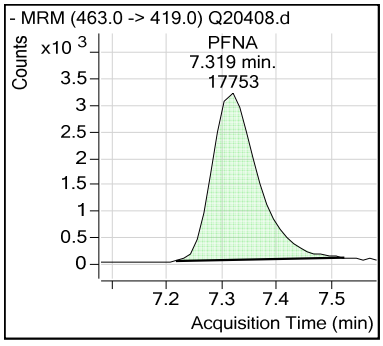
PFOS

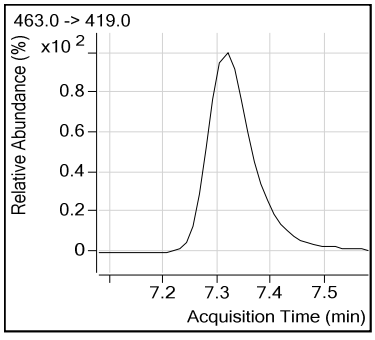


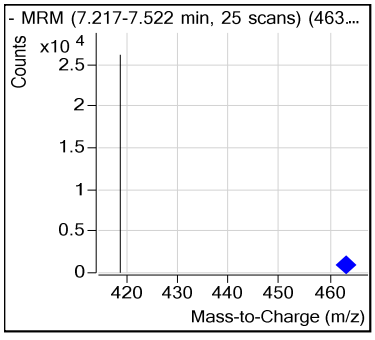




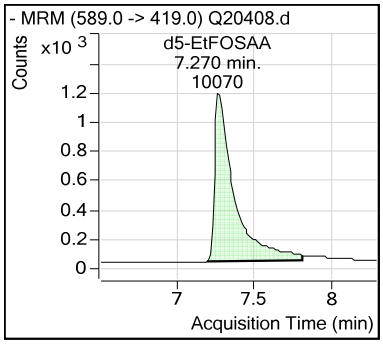
PFNA

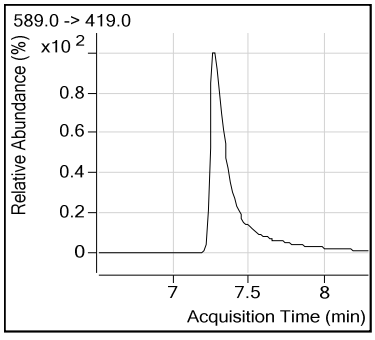


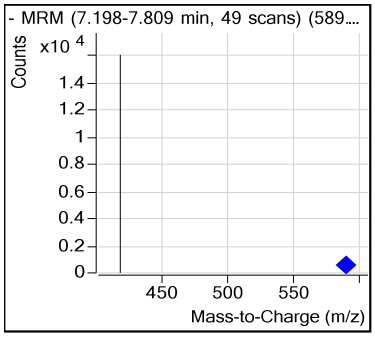




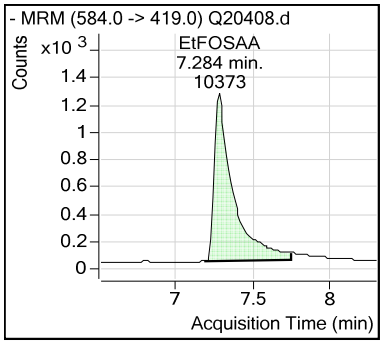
d5-EtFOSAA

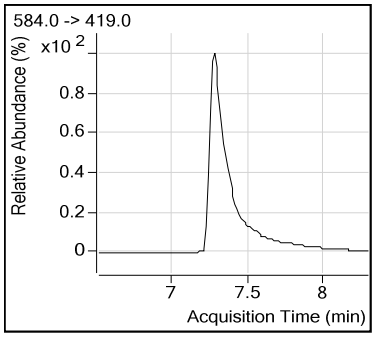


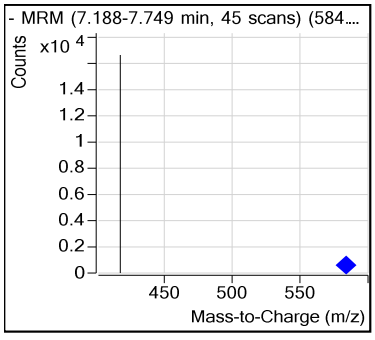




EtFOSAA



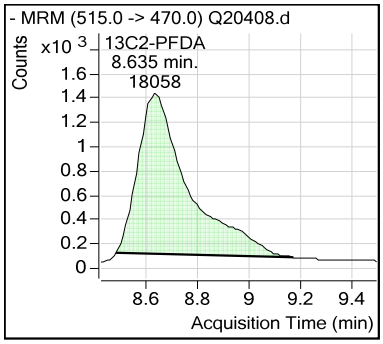


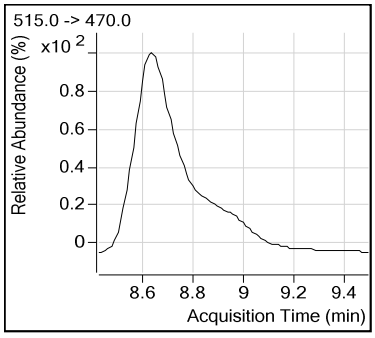


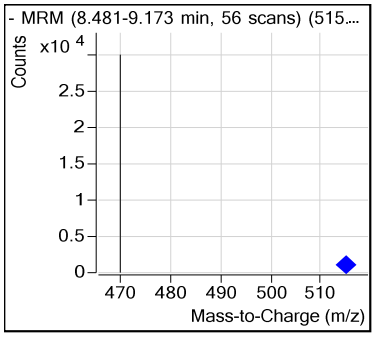
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

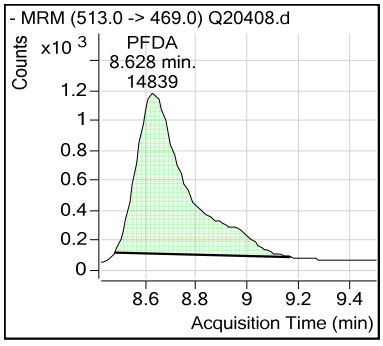
13C2-PFDA

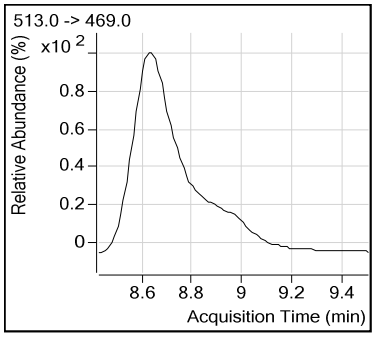


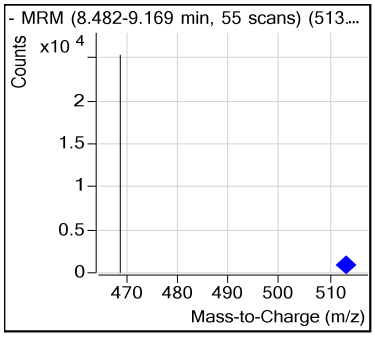




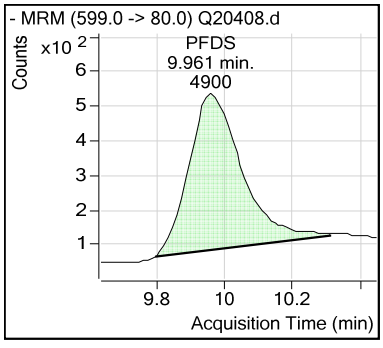
PFDA

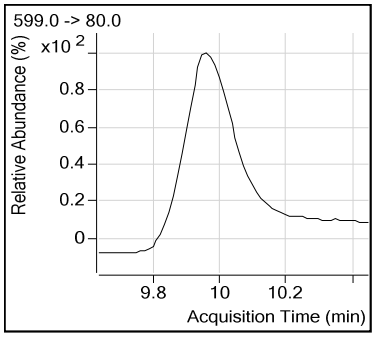


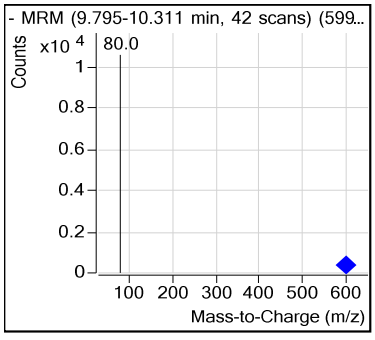




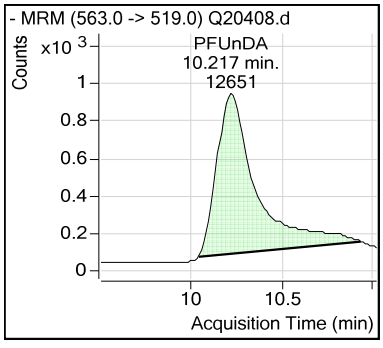
PFDS

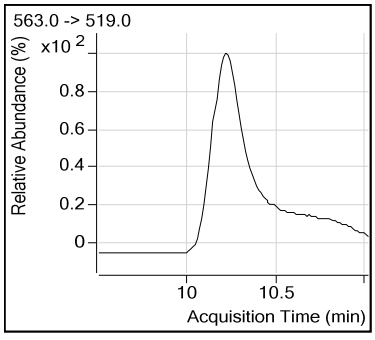


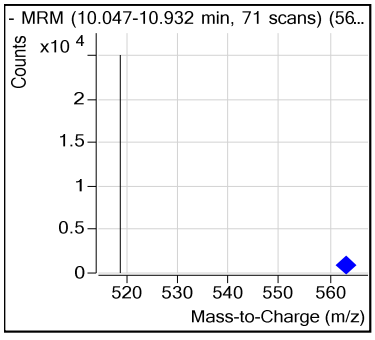




PFUnDA



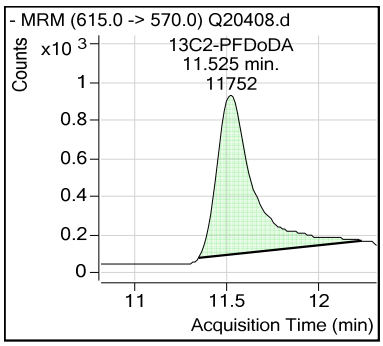


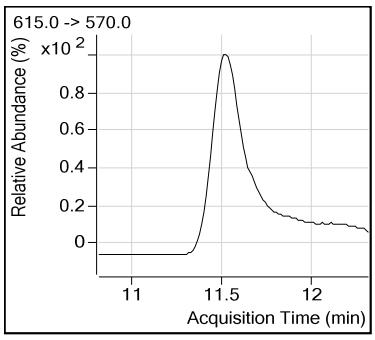


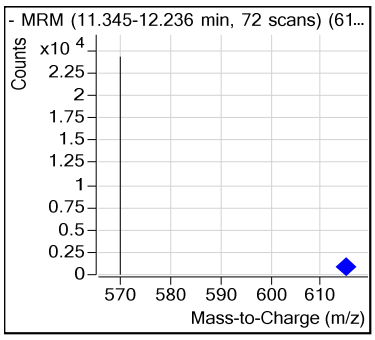
SGS ACCUTEST FA32826

Perfluorinated Compounds by LC/MS/MS.

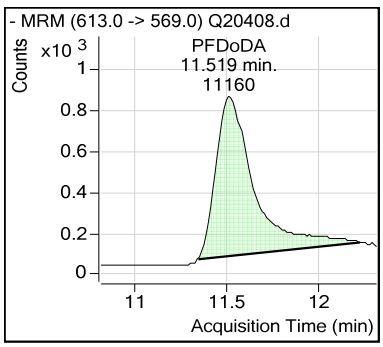
13C2-PFDoDA

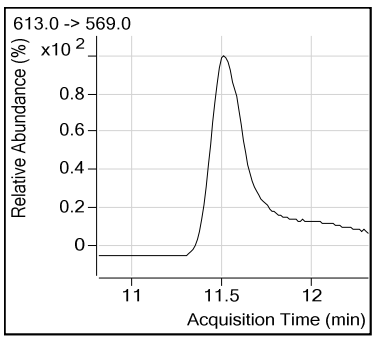


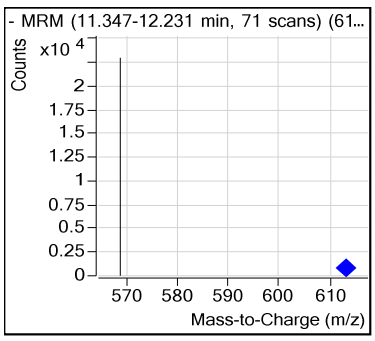




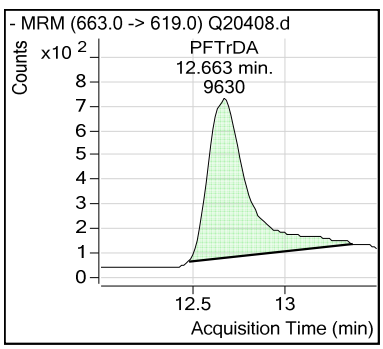
PFDoDA

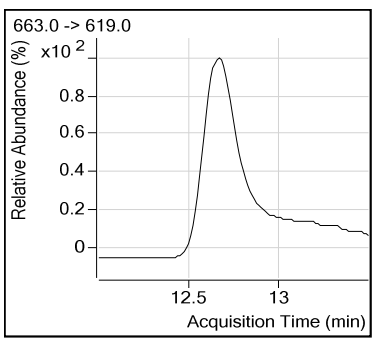


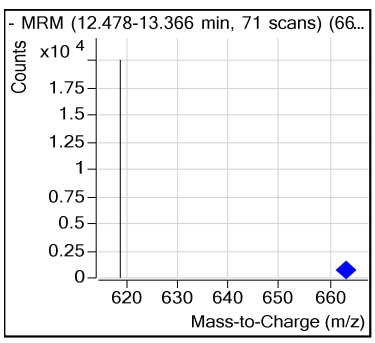




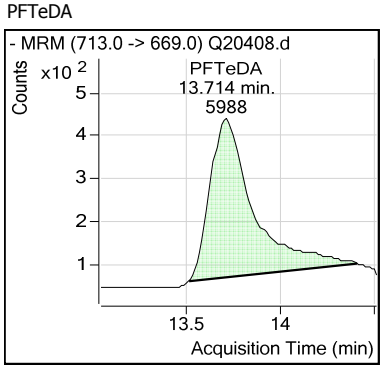
PFTrDA

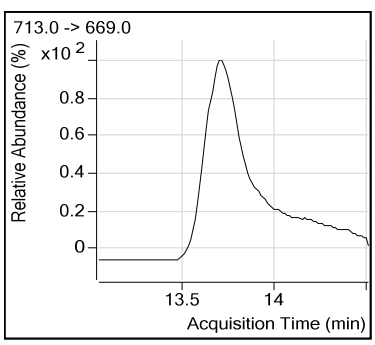


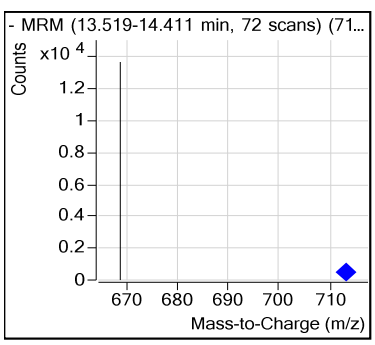




PFTeDA







ACCUTEST LABORATORIES SE

DATE:	04-12-16
COLUMN TYPE:	Poroshell KCC18
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	440

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	1mam PFOA PFOS LIN
PROC. METHOD:	PFCLIN 0412 SQ607
CALIB. DATE:	04-12-16
RUN BATCH: SQ	607

ANALYST:	NAS
SOLVENT A LOT #:	9T15 158747 / 158947
SOLVENT B LOT #:	160422
WATER LOT #:	158747
ISTD Lot #:	LC673 / LC632

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20236	1	CCB	PFL	—	—				ND
Q 37	1	CCB		—	—				ND
Q 38	5	RT		LC669 LC624	100/100 500				✓
Q 39	5	RT		↓	↓				✓
Q 40	1	CCB		—	—				ND Etime L.V.
Q 41	2	FC 607-2.5		LC669 LC624	12.5/12.5 500				RT & AR
Q 42	2	-2.5			↓				✓
Q 43	3	-5			25/25 500				✓
Q 44	4	-10			50/50 500				✓ RT & AR
Q 45	5	FCC607 -20			100/100 500				✓
Q 46	6	FC607 - 30			150/150 500				✓ ↓
Q 47	4	-10		↓	40/40 400				Start over
Q 48	1	CCB		—	—				Etime C.O
Q 49	2	FC 607-2.5		LC669 LC624	12.5/12.5 500				✓
Q 50	3	-5.0			25/25 500				✓
Q 51	4	-10			50/50 500				✓
Q 52	5	FCC607 - 20			100/100 500				✓
Q 53	6	FC 607 - 30			150/150 500				✓
Q 54	7	-40			200/200 500				✓
Q 55	8	-50		↓	250/250 500				✓

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

ACCUTEST LABORATORIES SE

DATE:	04-12-16
COLUMN TYPE:	Poroshell EC18
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	440

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	LMAM PFOA PFOS LIST
PROC. METHOD:	PFC List 0412 SQ607
CALIB. DATE:	04-12-16
RUN BATCH:	SQ 607

ANALYST:	NAS
SOLVENT A LOT #:	151F 158797 / 158947
SOLVENT B LOT #:	180422
WATER LOT #:	158797
ISTD Lot #:	LL673 / LL632

	DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q	20256	9	ICV 607-20	PFC	79334 LL629	5/100 500				PASS NO FOSA ET, ME n/SY
Q	57	10	OP60030-BS		OP60030	1X				✓
Q	58	11	-MB							✓ ET, ME
Q	59	12	FA32440-30, cfs							ND
Q	60	13	-31 cfs							ND
Q	61	14	-41 cf						SP PFOS cutoff	✓ ~~AA 20X~~ confirms 1st run
Q	62	15	-42 cf							ND
Q	63	16	FA32654-4 cfs							ND
Q	64	17	FA32819-1						SP PFOS cutoff	✓ AA PFOS Δ
Q	65	18	-2						SP	ND
Q	66	19	-3			2X			SP PFOS cutoff	AA 2X PFOS Δ
Q	67	5	CC 607-20		LL669 LL624	100/100 500				PASS ET FOSAA ↓
Q	68	1	CCB							✓
Q	69	20	FA32820-1		OP60030	1X			SP PFOS cutoff	✓ AA PFOS Δ
Q	70	21	FA32823-1	NF 041316						ND AA ET FOSAA
Q	71	22	FA32826-1						SP PFOS cutoff	✓ AA FOS
Q	NF041316 72	23	OP60030-MS						SP	✓
Q	73	24	-MSD						SP	✓ NF041316
Q	74	25	FA32826-2			2X			SP PFOS cutoff	~~✓~~ AA 5X OK for PFOA
Q	75	26	-3			20X			SP PFOS cutoff	✓ AA ~~20X~~ 50X PFOS ~~25X~~ NF041316

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
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LCMS1_Q_log.xls NF rev. 10/12

Analyst's Signature:

ACCUTEST LABORATORIES SE

DATE:	04-12-16
COLUMN TYPE:	PROGRESS II EC118
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	440

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	LMRM PFOA PFOS LIST
PROC. METHOD:	PFC LIST 6912 SA107
CALIB. DATE:	04-12-16
RUN BATCH: SQ	607

ANALYST:	NAS
SOLVENT A LOT #:	95/5 178747 / 175977
SOLVENT B LOT #:	160422
WATER LOT #:	175797
ISTD Lot #:	LL 673 / LL 632

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20276	27	FA32440-33	PFC	OP60030				SP	✓
Q 77	92	CC607-20		LL669 LL624	100/100 500				Pass
Q 78	91	CCB		—	—				✓
Q 79	28	OP59984-BS		OP59984	1+				✓
Q 80	29	-MB							NO Target
Q 81	30	FA32807-1						SP	✓ RR FOR RR 50x 10x
Q 82	31	-2						SP	x IS↓ RR 10x, 100x
Q 83	32	FA32826-10						SP NO41716	c.c. ~~AID~~ x SS↓ RR 1x
Q 84	33	-12							ND
Q 85	34	-3			↓				ND
Q 86	35	-1			10x			SP	x RR 2x
Q 87	36	-2			↓				x RR 1x
Q 88	92	CC607-LO		LL669 LL624	100/100 500				Pass ETA me low NO41716
Q 89	91	CCB		—	—				✓
Q 90	37	FA32826-4		OP59984	10x			SP	✓ RR 200x, 500x
Q 91	38	OP59984-MS						SP	x RR 200x
Q 92	39	-MSD						SP	x ↓
Q 93	40	FA32826-5						SP	✓ RR 200x, 500x
Q 94	41	-6						SP	✓ RR 200x, 500x
Q 95	42	-7						SP	✓ RR 10, 50

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
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LCMS1_Q_log.xls NF rev. 10/12

Analyst's Signature:

ACCUTEST LABORATORIES SE

DATE:	04-12-16
COLUMN TYPE:	Poroshell EC118
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	440

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	d mam PFOA PFOS LST
PROC. METHOD:	PFC LST 0412 S2607
CALIB. DATE:	04-12-16
RUN BATCH: SQ	607

ANALYST:	NAS
SOLVENT A LOT #:	9F1F 158797 / 158947
SOLVENT B LOT #:	160422
WATER LOT #:	158797
ISTD Lot #:	LC673 / LC672

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20246	43	FA32826-8	PFC	OP9964	10x				X RR 1X
Q 97	44	-9						SP PFOS int/ff	X RR 10X ~~10X~~
Q 98	45	-11						SP MD4/16	✓ RR ~~2X~~ 20J X, 100X
Q 99	46	-13						SP	X RR 2x
Q 300	92	ECC607-20		LC669 LC674	100/100 100				Poss PFBA, ET, MeL
Q 301	91	CCB		—					✓
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q						NAS 04/13/16			
Q									
Q									
Q									
Q									
Q									

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

LCMS1_Q_log.xls NF rev. 10/12

Analyst's Signature:

ACCUTEST LABORATORIES SE

DATE:	04-13-16
COLUMN TYPE:	Poroshell EC18
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	426

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	dMAM PFOA PFOS LIST
PROC. METHOD:	PFCLIST 0412 SQ607
CALIB. DATE:	04-12-16
RUN BATCH: SQ	608

ANALYST:	NMS
SOLVENT A LOT #:	AP1F 156747 / 156947
SOLVENT B LOT #:	160422
WATER LOT #:	156747
ISTD Lot #:	LC 673 / LC 674

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20302	1	CCB	PFC	—	—				ND
Q 03	1	CCB		—	—				ND
Q 04	2	RT		LC664 LC674	ND/100 500				Fix AT's
Q 05	2	RT							Fix RTs
Q 06	2	CC 607-20							Poss
Q 07	3	FCV 607-20		LC674	5/500				Poss
Q 08	4	OP 59984-BS		OP59984	1X				✓
Q 09	5	-MB							✓ SST
Q 10	6	FA32607-1			10X			SP	✓ Run 10X
Q 11	7	-1			10X			SP	✓
Q 12	8	-2			25X			SP	✓ Run 100X
Q 13	9	-2			100X			SP	✓
Q 14	10	FA32826-1			2X			SP	✓ RRT X
Q 15	11	-2			2X			SP	✓
Q 16	12	-3			1X			Vol	ND
Q 17	13	-4			200X			SP	✓ Run 100X
Q 19	12	CC 607-20		LC664 LC674	100/100 500				Poss
Q 19	1	CCB		—	—				✓
Q 20	14	FA32826-4		OP59984	500X			SP Vol	✓ Run 1000X
Q 21	15	OP 59984-MS			200X			SP	✓

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Analyst's Signature: _____

ACCUTEST LABORATORIES SE

DATE:	04-13-16
COLUMN TYPE:	Poroshell Eclipse
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	426

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	2mAM PFOA PFOS List
PROC. METHOD:	PFC List 0412 SA607
CALIB. DATE:	04-12-16
RUN BATCH: SQ	608

ANALYST:	NM
SOLVENT A LOT #:	9215 150747 / 159947
SOLVENT B LOT #:	160424
WATER LOT #:	150747
ISTD Lot #:	LC673 / LC682

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20322	16	OP59484-MS	PFC	OP59484	200X			SP	✓
Q 23	17	FA32826-5			200X			SP	✓ RR 500X
Q 24	18	-5			500X			SP	✓
Q 25	19	-6			200X			SP	✓ Rpt 500X
Q 26	20	-6			500X			SP	✓
Q 27	21	-7			10X			SP	✓ Rpt 10X
Q 29	22	-7			50X			SP	✓
Q 29	23	-8			1X				~~A~~ RTA low vial vol?
Q 30	2	CC 607-20		LC669 LC624	100/100 500				POSS PFBA low
Q 31	1	CCB							✓
Q 32	24	FA32826-9		OP59484	10X			SP	✓
Q 33	25	-9			50X				X not needed
Q 34	26	-10			1X			SP	✓ SS ↓ Re-ext
Q 35	27	-11			200X			SP	✓ Rpt 500X
Q 36	28	-11			500X			SP	✓ Rerun 1000X
Q 37	29	-12			1X				ND
Q 38	30	-13			2X			SP	✓
Q 39	92	CC 607-20		LC669 LC624	100/100 500				POSS mefosm, PFBA ↓ as E+ FOSAA ↓
Q 40	91	CCB							✓
Q 41	31	FA32819-1		OP60030	1X			SP	✓

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

ACCUTEST LABORATORIES SE

DATE:	04-13-16
COLUMN TYPE:	Acquity II BEH C18
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	426

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	4mm PFOA PFOS Ext
PROC. METHOD:	PFC Ext 0412 SA607
CALIB. DATE:	04-12-16
RUN BATCH:	SQ 608

ANALYST:	NMS
SOLVENT A LOT #:	9F1F 178747 / 178947
SOLVENT B LOT #:	~~LC~~ 160424
WATER LOT #:	10 4146 178747
ISTD Lot #:	LL 673 / LL 632

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20342	32	FH32819-3	PFC	OP60930	2x			SP	✓
Q 43	33	FH32820-1			1x			SP	✓
Q 44	34	FH32923-1			↓				ND
Q 45	35	FH32956-1			↓			SP	✓
Q 46	36	-2			5x			SP	✓
Q 47	37	-3			10x			SP J01	✓
Q 48	92	FCC607-20		LL669 LL624	100/100 100				PDBs Et,Me,d5 Et FOSSS PFBA & PFPeA
Q 49	91	CCB							✓
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									

04-14-16

NAS

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
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LCMS1_Q_log.xls NF rev. 10/12

Analyst's Signature:

ACCUTEST LABORATORIES SE

DATE:	04-14-16
COLUMN TYPE:	Phenomenex Eclipse
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	430

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	AMAM PFOA PFOS Lin+
PROC. METHOD:	PFC Lin+ 0412 SQ609
CALIB. DATE:	04-12-16
RUN BATCH:	SQ 609

ANALYST:	MB
SOLVENT A LOT #:	9+15 154747 / 158947
SOLVENT B LOT #:	160422
WATER LOT #:	154747
ISTD Lot #:	LL673 / LL632

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20350	1	CCB	PFC						✓
Q 51	1	CCB							ND
Q 52	1	CCB							ND
Q 53	2	ECC607-20		LC669 LC624	100/100 SW				Poss PFBA+ Et,Me dSFA+ ↓
Q 54	3	OP60074-BS		OP60074	1X				✓
Q 55	4	-MB							ND
Q 56	5	FA32610-1CFS							ND SS ↓
Q 57	6	OP60074-DUP						MP	ND SS ↓
Q 58	7	FA32826-1		OP 9984	5X			SP	✓
Q 59	8	FA32826-4			1000X			SP	✓
Q 60	9	-8			5X			SP Re-int?	✓ SS↓ matrix Dry 10x
Q 61	10	-11			1000X			SP	✓
Q 62	11	-9			1X			SP	✓ 4ppt w/ 10x
Q 63	12	OP 9984-BS							FOSA 10w
Q 64	2	ECC607-20		LC669 LC624	100/100 SW				Poss dSFA+, Et 10w
Q 65	1	CCB							✓ PFHxA high
Q									
Q									
Q									
Q									

04-14-16

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
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LCMS1_Q_log.xls NF rev. 10/12

Analyst's Signature: _____

ACCUTEST LABORATORIES SE

DATE:	04-18-16
COLUMN TYPE:	Poroshell EC-C18
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	4648

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA-PFOS
ACQ. METHOD:	Aman PFOA PFOS List
PROC. METHOD:	PFC List 041215467
CALIB. DATE:	04-11-16
RUN BATCH: SQ	611

ANALYST:	NMS
SOLVENT A LOT #:	9515 151947 / 151947
SOLVENT B LOT #:	160422
WATER LOT #:	151947
ISTD Lot #:	LC 673 / LC 632

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20400	1	CCB	PFC						✓
Q 01	1	CCB							ND
Q 02	2	AT		LL669 LL673	100/100 TOO				✓
Q 03	2	CC607-20		+	↓				Poor PFPeA↑
Q 04	3	OP60102-BS		OP60102	1↑				✓ PFNA↑ PFDoDA↓ Am
Q 05	4	-MB							ND
Q 06	5	FA32426-10CFS							✓
Q 07	6	-8	NA 041816	OP57984	10↑				✓ matrix
Q 08	2	CC607-20		LL669 LL673	100/100 TOO				Poss
Q NOV816 09	1	CCB							✓
Q 10	7	OP60122-BS		OP60122	1↑			SP	✓ SSL Am
Q 11	8	-MB							✓
Q 12	9	FA33145-1						SP	✓
Q 13	10	-3						SP	✓
Q 14	11	OP60122-MS						SP	✓
Q 15	12	-MSD						SP	✓
Q 16	13	FA33145-5						SP	✓
Q 17	14	-7						SP	✓
Q 18	7	OP60122-BS						SP	✓
Q 19	3	OP60102-BS	↑	OP60102 100	↑				✓ ~~PFCA-TOO~~ PFDoDA↓ NOV1916

NOV1916

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
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LCMS1_Q_log.xls NF rev. 10/12

Analyst's Signature:

ACCUTEST LABORATORIES SE

DATE:	04-18-16
COLUMN TYPE:	Poroshell EC-18
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	466

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	SMRM PFOA PFOS
PROC. METHOD:	PFC Last 0411L SB607
CALIB. DATE:	04-13-16
RUN BATCH:	SQ 611

ANALYST:	NAS
SOLVENT A LOT #:	9515 158747 / 158947
SOLVENT B LOT #:	160422
WATER LOT #:	154797
ISTD Lot #:	LC 673 / LC 672

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20420	2	CC607-20	PFC	LC669 LC675	100/100 500				PASS
Q 21	1	CCB		—	—				✓
Q 22	15	FA33145-9		0160112	1+			SP	✓
Q 23	16	-16						SP	✓
Q 24	17	-14						SP	✓
Q 25	18	-30						SP	✓
Q 26	19	-33						SP	✓
Q 27	20	-34							✓
Q 28	21	-35						SP	✓
Q 29	22	-36						SP	✓ SSV
Q 30	23	-37							✓
Q 31	24	-38							✓
Q 32	2	CC607-10		LC669 LC675	100/100 500				PASS
Q 33	1	CCB		—	—				✓
Q 34	3	OP60102-RS		BP60102	1+				NOA ↓
Q 35	3	OP60102-MS		BP60102					↓
Q 36	25	FA33145-39		BP60122					ND
Q 37	26	-40							✓
Q 38	27	-41						SP	✓ Run 10x
Q 39	28	-42						SP	✓

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
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LCMS1_Q_log.xls NF rev. 10/12

Analyst's Signature:

ACCUTEST LABORATORIES SE

DATE:	04-18-16
COLUMN TYPE:	Poroshell II EC18
AMOUNT INJECTED:	7.5 ul
INSTRUMENT:	LCMS1-Q
HEAD PRESSURE:	468

LCMS1-Q ANALYSIS LOG

METHODS:	PFOA PFOS
ACQ. METHOD:	LMAM PFOA PFOS
PROC. METHOD:	PFC_LIST 04-12 SQ607
CALIB. DATE:	04-12-16
RUN.BATCH:	SQ 611

ANALYST:	NAS
SOLVENT A LOT #:	9C15 158747 / 158947
SOLVENT B LOT #:	160422
WATER LOT #:	158747
ISTD Lot #:	LL673 / LL632

DATA FILE	ALS #	SAMPLE ID	SAMPLE METHOD	OP BATCH	DF	SCON	ION RATIO	MANUAL INTS RATIONALE, PK #	COMMENTS
Q 20440	29	FA33145-43	PCC	IPB0122	14			SP	✓
Q 41	30	-44		↓	↓				✓
Q 42	2	ECC607-20		LL609 LL625	001100 TOO				Poss
Q 43	1	CCB							
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
Q									
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Q									
Q									

NAS 04-19-16

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration
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SGS ACCUTEST - ORLANDO

SPE LIQUID SAMPLE PREP REPORT

Date/Time: 04/06/16 0900 Started {mm/dd/yy 24:00}

Date/Time: 04/06/16 1600 Finished {mm/dd/yy 24:00}

Prep Method: 3535A or Method (circle)

Analytical Method: LC 537

Batch#: OP 59984 Ext. By: MB Conc. By: AA Vialed By: MB

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP 59984 MB	X	130	6	N/A	20ul		1ml	
OP 59984 BS	X	130 MB 04/06/16	↓	↓	↓	10+10ul	↓	
FA32807-1	1	~~280~~ 360						
-2	1	260						
FA32826-1	1	130						
-2	1	130						
-3	1	120						
-4	1	120						
-5	1	125						
-6	1	130						
-7	1	130						
-8	1	125						USE 2 CARTRIDGES TO EXT.
-9	1	125						
-10	1	130						
-11	1	130						
-12	1	130						
-13	1	120						
				MB	04/06/16			
FA32826-4MS	2	130	6	N/A	20ul	10+10ul	1ml	
-4MSD	3	130	↓	↓	↓	↓	↓	
DUP								

Comments: SAMPLE FA32826-8 clogged 2 SPE CART. WHEN EXTRACTING IT.

Surr.1 ID: LC666 Conc: 1ppm Exp. Date: 04/29/16 Inj. By: MB Ver. By MU

Surr.2 ID: / Conc: / Exp. Date: / Inj. By: / Ver. By /

Spk.1 ID: LC628 Conc: ~~0.5~~ 1/4/10 ppm Exp. Date: ~~03/31/16~~ 04/30/16 Inj. By: MB Ver. By MU

Spk.2 ID: 7933A Conc: 2 ppm MB 04/06/16 Exp. Date: 03/31/17 Inj. By: MB Ver. By MU

Initial Bath Temp (Therm ID): _____ Observed Temp °C: _____ Corr. Temp °C: _____

Exchange Bath/N-Evap Temp (Therm ID): _____ Observed Temp °C: _____ Corr. Temp °C: _____

Methanol Lot # 158731 SPE Lot # 0000077828 pH Paper # 226015

Acetonitrile Lot # / SPE Lot # / Reagent # /

Water Lot# 085904 Syringe Filter Lot# / Solvent # /

Relinquished By: _____ Date: 04/06/16

Accepted By: _____ Date: 4/7/16

NF 02/16 extwater_spe 020116.xls

SGS ACCUTEST - ORLANDO

SPE LIQUID SAMPLE PREP REPORT

Date/Time: Started 04/15/16 1000 {mm/dd/yy 24:00}

Date/Time: Finished 04/15/16 1300 {mm/dd/yy 24:00}

Prep Method: 3535A or Method (circle)

Analytical Method: LC537

Batch#: OP60102 Ext. By: MB Conc. By: AA Vialed By: MB

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
OP60102 MB	X	130	6	N/A	20ml		1ml	
OP60102-BS	X	130	↓	↓	↓	10+10ml	↓	
FA32826-10MS	2	130	↓	↓	↓		↓	
					AA			
					04/15/16			
MS								
MSD								
DUP								

Comments:

Surr.1 ID: LC6666 Conc: 1ppm Exp. Date: 09/29/16 Inj. By: MB Ver. By MV

Surr.2 ID: ~~LC6628~~ Conc: — Exp. Date: — Inj. By: — Ver. By —

Spk.1 ID: LC6628 Conc: 2/4/10ppm Exp. Date: 04/20/16 Inj. By: MB Ver. By MV

Spk.2 ID: 7933A Conc: 2 ppm Exp. Date: 03/29/17 Inj. By: MB Ver. By MV

Initial Bath Temp (Therm ID): —

Observed Temp °C: — Corr. Temp °C: —

Exchange Bath/N-Evap Temp (Therm ID): N/EVAP

Observed Temp °C: — Corr. Temp °C:

Methanol Lot # 161020 SPE Lot # 0000077828 pH Paper # 226015

Acetonitrile Lot # — SPE Lot # — Reagent # —

Water Lot# OP59904 Syringe Filter Lot# — Solvent # —

Relinquished By: Date: 04/15/16

Accepted By: Date: 04/15/16

NF 02/16 extwater_spe 020116.xls

SGS ACCUTEST FA32826

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	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	ES-GW-46	Monitoring well	1379896.64	17139449.55	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	ES-46-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	ES-GW-36	Monitoring well	1379453.88	17139997.28	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	ES-36R-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	ES-GW-47	Monitoring well	1382794.47	17139386.23	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	DUP-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	MCC-GW-15	Monitoring well	1380536.07	17139100.57	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	MCC-15-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	R-GW-05	Monitoring well	1379858.98	17139050.47	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	R-5-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	ES-GW-47	Monitoring well	1382794.47	17139386.23	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	ES-47-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	R-GW-04	Monitoring well	1380543.69	17139364.32	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	R-4-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	MCC-GW-12	Monitoring well	1380669.89	17139923.02	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	MCC-12-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	R-GW-06	Monitoring well	1380193.33	17139004.02	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	R-6-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	SWMU 00001	R-GW-03	Monitoring well	1379290.35	17139671.52	N6247011D8013	JMA1	RESOLUTION CONSULTANTS	R-3-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826							N6247011D8013	JMA1	RESOLUTION CONSULTANTS	TB1-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826							N6247011D8013	JMA1	RESOLUTION CONSULTANTS	FB1-0316
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826							N6247011D8013	JMA1	RESOLUTION CONSULTANTS	EB1-0316

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	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	30-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	30-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Field duplicate	30-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	30-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	31-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	30-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	28-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	30-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	30-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826	SWMU 00001	Ground water	Normal (Regular)	28-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826		Water for QC samples	QC Sample	29-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826		Water for QC samples	QC Sample	30-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00
SOUTHEAST	CORPUS_CHRISTI_NAS	FA32826		Water for QC samples	QC Sample	31-Mar-16	537_MOD	Perfluoroalkyl Compounds	20160603125035.00