HALEY ALDRICH

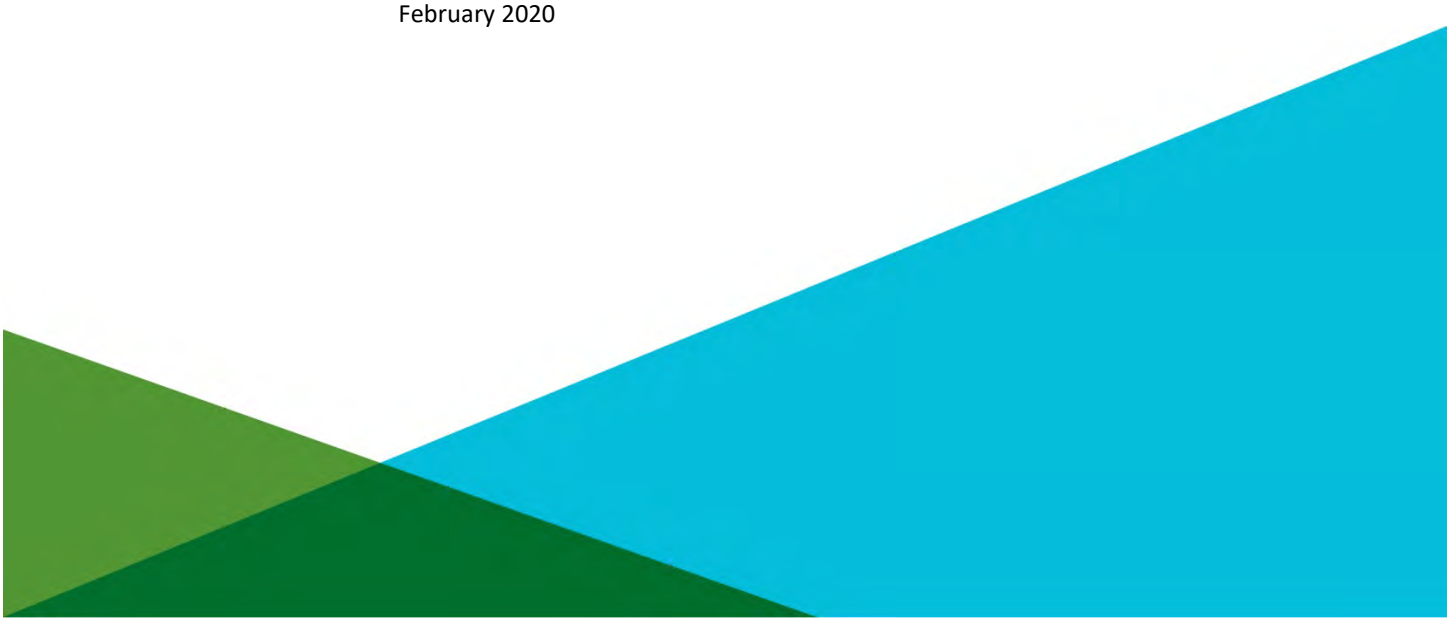
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2019 PERIODIC REVIEW REPORT
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

by
Haley & Aldrich of New York
Rochester, New York

for
Xerox Corporation
Webster, New York

File No. 129158-007
February 2020



Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623
585.359.9000

15 February 2020
File No. 129158- 007

Xerox Corporation
800 Phillips Road, 0207-01Z
Webster, New York 14580

Attention: Mr. Marcus Lathrop

Subject: 2019 Periodic Review Report
Former Xerox Building 801 Facility
Henrietta, New York
Site No: 828069

Dear Mr. Lathrop:

Haley & Aldrich of New York is pleased to provide Xerox Corporation with this annual Periodic Review Report (PRR) for the Former Xerox Building 801 Facility in Henrietta, New York. This report summarizes activities performed and presents data collected during the period 1 January 2019 through 31 December 2019 and is intended to satisfy the PRR reporting requirements described in the NYSDEC-approved Revised Site Management Plan dated 30 July 2015.

This report is being submitted to the New York State Department of Environmental Conservation (NYSDEC) in electronic (Adobe Acrobat) format conforming to the electronic document submission requirements of the NYSDEC. An additional copy of Appendix A (Annual Institutional and Engineering Controls Certification Form) is also being submitted in hard copy format to the NYSDEC as requested.

Please do not hesitate to contact us should you have any questions regarding this report.

Sincerely yours,
HALEY & ALDRICH OF NEW YORK

Jonathan M. Sanger
Environmental Specialist

Janice D. Szucs, P.E.
Senior Project Manager

Denis M. Conley
Technical Expert

c: L3Harris Technologies; Attn: Jason Scott

Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623
585.359.9000

SIGNATURE PAGE FOR

REPORT ON

2019 PERIODIC REVIEW REPORT
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

PREPARED FOR

XEROX CORPORATION
WEBSTER, NEW YORK

PREPARED BY:

Jonathan Sanger
Environmental Specialist
Haley & Aldrich, Inc.

REVIEWED AND APPROVED BY:

Janice Szucs
Senior Project Manager
Haley & Aldrich, Inc.

Denis Conley
Technical Expert
Haley & Aldrich, Inc.

Executive Summary

Haley & Aldrich of New York (Haley & Aldrich) has prepared this Periodic Review Report (PRR) for the 2019 reporting year for the Former Xerox Building 801 Facility located at 1350 Jefferson Rd, Henrietta, NY (Site). This report presents updates to current Site conditions, confirms that previously investigated and remediated Site risks are effectively managed, and summarizes activities performed and data collected during the period 1 January 2019 through 31 December 2019. This report is intended to satisfy the requirements described in the NYSDEC-approved Revised Site Management Plan (SMP) dated 30 July 2015.

During the 2019 reporting period, the engineering controls/institutional controls (EC/ICs) onsite were in place and functioned effectively. The PRR Annual Institutional and Engineering Controls Certification Form is included in Appendix A. Please note that the form was edited (as required within form instructions) to state the correct PRR period (1 January to 31 December 2019) and site acreage (85.98 acres, not 2.000).

Based on the results of the most recent groundwater sampling event, impacted groundwater remains confined within the footprint of the defined Soil and Groundwater Management Area (SGMA). The groundwater analytical results indicate that the reductive dechlorination process is progressing naturally to completion, gradually reducing residual contaminant levels and assisting with maintaining overall plume stability as intended. Overall, the data collected during the most recent monitoring event is consistent with the past monitoring events completed since active remediation was deemed complete by the NYSDEC. In general, the source area well data showed an overall decrease in concentrations of chlorinated compounds of concern, a static condition, or a condition of decreasing parent compound and increasing daughter compound concentrations, which is expected under a biologically-driven degradation scenario.

During 2019, NYSDEC required Xerox to sample Site groundwater for emerging contaminants 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS). In response to this request, a Work Plan for the Proposed Sampling for Emerging Contaminants was submitted by Xerox to the NYSDEC, and subsequently approved. Groundwater sampling of three (3) monitoring wells was completed in March 2019. PFAS was detected in each of the wells sampled, which indicated a background condition or a source other than the Former Xerox Facility operations due to the detections in the upgradient well location. Based on the total PFAS concentrations (less than the USEPA Lifetime Health Advisory Limit of 70 ng/L), there is low risk to human health and the environment from the presence of PFAS. Sampling results also detected the presence of 1,4-dioxane in source the source area. Based on the low level detection of 1,4-dioxane in the downgradient sampling location (0.067 ug/L), 1,4-dioxane does not appear to be migrating significantly beyond the residual source area.

During the reporting period, there were no recorded shutdowns of the sub-slab depressurization (SSD) system. The SSD system continues to operate effectively within the design zone of influence and is mitigating the potential for vapor impacts to indoor air within the Former Xerox Building 801, as intended.

A visual inspection of the SGMA by Haley & Aldrich and correspondence with the property owner L3Harris Technologies (formerly known as Harris Corporation and herein referred to as L3Harris) indicated that the protective cover and fencing remain in place and effective in limiting exposure to residual Site contamination within the SGMA. Under the sale agreement, property owner L3Harris is responsible for notifying NYSDEC of any planned excavations within the SGMA and reporting SGMA

activities to Xerox, which, if conducted, will be included in future PRR summary reports. Based on input received from L3Harris, there were no ground intrusive activities that took place within the SGMA in 2019.

L3Harris did not conduct any ground intrusive site improvement projects during 2019 that occurred outside of the SGMA. L3Harris notified the NYSDEC in October 2019 of a nitrogen tank pad expansion project that was planned to take place during the 2020 calendar year.

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1. Background

Haley & Aldrich of New York (Haley & Aldrich) has prepared this Periodic Review Report (PRR) for the 2019 reporting year for the Former Xerox Building 801 Facility located at 1350 Jefferson Rd, Henrietta, NY Site No. 828069 (see Figure 1). This report presents updates to current Site conditions, confirms that previously investigated and remediated Site risks are effectively managed, and summarizes activities performed and data collected during the period 1 January 2019 through 31 December 2019. This report is intended to satisfy the requirements described in the NYSDEC-approved Revised Site Management Plan (SMP) dated 30 July 2015.

Xerox implemented several remedial actions at this Site from the early 1990s through 2006, when active remediation was deemed complete by the NYSDEC. An overall summary of the Remedial Actions and site management activities performed at the Site and timeframes is as follows:

1. Groundwater pump and treat to manage plume migration (1990 to 1994).
2. Stormwater redirection around the source area (1995).
3. 2-PHASE Extraction to reduce soil and groundwater residual concentrations (1994 to 2001).
4. HRC-S (biological amendment) pilot test and larger-scale final corrective action injection to further reduce soil and groundwater residuals (2003 to 2006).
5. Installation and testing of a sub-slab depressurization (SSD) system (2006 to 2007).
6. Sale of the property to Harris Corporation (now known as L3Harris Technologies and herein referred to as L3Harris) on 15 March 2010. Xerox vacated the building in September 2010 and L3Harris started renovations to the building. As part of the renovations, modifications and expansion to the existing SSD system were performed. Renovations were substantially completed in September 2011. L3Harris currently occupies the building and property; operation of the expanded SSD system continues.

Corrective Actions for the Site were completed in August 2006 with the implementation of the final large-scale biological amendment addition to stimulate natural degradation processes over the long term. No further active remediation has been conducted, nor is contemplated based on the current site conditions.

Site activities are now governed by a SMP for long-term management of residual contamination, as required by the NYSDEC and which includes:

(1) Institutional and Engineering Controls,
(2) monitoring,
(3) operation and maintenance, and
(4) periodic reporting.

SMP activities include annual groundwater monitoring; operation, maintenance, and monitoring of a sub-slab depressurization (SSD) system; management of soil cover and adherence to management protocols for the Soil and Groundwater Management Area (SGMA) of the Site; and annual certification that prescribed Site engineering and institutional controls (EC/ICs) are still in place.

2. Site Activities

The following activities were implemented during the reporting period as stipulated by the SMP:

- An annual groundwater monitoring event was performed by ALS Environmental of Rochester, New York on 26 August 2019.
- Vacuum testing was conducted on 27 September 2019 by Haley & Aldrich to evaluate the SSD system performance.

During the 2019 reporting period, the engineering and institutional controls onsite were in place and functioned effectively. There were no ground-intrusive activities that took place within the SGMA during the reporting period.

The Institutional and Engineering Controls Certification Form documenting that site management requirements are being met is included as Appendix A of this report and is also being submitted in hard copy format to NYSDEC. Please note that the form was edited (as required within form instructions) to state the correct PRR period (1 January to 31 December 2019) and site acreage (85.98 acres, not 2.000).

3. Groundwater and Surface Water Monitoring

On 26 August 2019, groundwater samples were collected from twelve (12) onsite wells and two of the three (3) surface water locations (one location was dry at the time sampling was performed), as required by the SMP (Figure 2). The monitoring well samples were collected using passive diffusion bags (PDBs), as approved by NYSDEC in 2017. Sampling and laboratory analyses were conducted by ALS Environmental of Rochester, New York. Laboratory analytical results are summarized in Tables I and III, and in the sections below. Table III provides historical data from 2006 to present to show trends since the completion of the final larger-scale HRC-S injection in 2006 and as confirmation that analytical results reflect a stable plume condition. Data collected prior to 2006 can be found in previously submitted semi-annual reports prepared for the Site. The laboratory data report is included in Appendix B. A graphical depiction of the data is included as Appendix C.

Static groundwater levels were collected from the twelve (12) onsite wells on 26 August 2019. The data is summarized in Table II. Groundwater contours based on the data are included on Figure 4. Based on the 2019 groundwater elevation data, groundwater flows to the north-northeast, which is consistent with past monitoring results.

3.1 SOURCE AREA WELLS – HRC-S INJECTION AREA

Five wells VE-6, VE-10, VE-12, VE-15, and RW-4 are located within the final larger-scale HRC-S Injection Area, and herein referred to as the residual source area. Refer to Figure 2 for the location of the wells. The analytical data is summarized in Tables I and III. Refer to the figures in Appendix C for a graphical depiction of the data trends with time.

Volatile organic compound (VOC) data from the residual source area is consistent with historical data and indicate that the enhanced reductive dechlorination process stimulated by the injection of the HRC-S is active and continuing in the remediation area. VE-10, VE-12 and VE-15 in particular continue to show strong evidence of the reductive dechlorination pathway with overall decreasing levels of cis-1,2-dichloroethene (cis-1,2-DCE) and 1,1-dichloroethane (1,1-DCA) and corresponding increasing or higher levels of daughter products vinyl chloride and chloroethane as expected due to the reductive dechlorination process. The total VOC concentrations at VE-12 increased slightly to 18,450 ug/L compared to 17,110 ug/L in 2018. The sample at VE-12 resulted in a detection of cis-1,2-DCE (1,100 ug/L), which had not been detected in sample results since 2016. Detections of daughter products chloroethane and vinyl chloride were consistent with previous sampling events confirming the active reductive dechlorination of the parent compounds tetrachloroethene (PCE), trichloroethene (TCE), and 1,1,1-trichloroethane (1,1,1-TCA). Total VOC concentrations at VE-6 decreased significantly in 2019 (5,970 ug/L) compared to results in 2018 (17,120 ug/L). The overall decrease in VOC concentrations is largely due to the decrease of cis-1,2-DCE concentrations (13,000 ug/L to 3,900 ug/L).

Parent compounds, PCE, TCE, and 1,1,1-TCA, were not detected in any of the source area wells during the 2019 sampling event, with the exception of low concentrations of TCE in RW-4 (7.9ug/L) and 1,1,1-TCA in VE-6 (150 ug/L) and VE-12 (440 ug/L), which have exhibited a decreasing trend. Concentrations of parent compounds detected remain well below levels observed before remediation was conducted at the site. In general, the source area well data showed a significant overall decrease in chlorinated compound concentrations of concern, a static condition, or a condition of decreasing parent compound and increasing daughter compound concentrations, which is expected under the degradation scenario.

The groundwater analytical results indicate that the reductive dechlorination process is progressing naturally to completion, gradually reducing residual contaminant levels and assisting with maintaining overall plume stability as intended.

3.2 DOWNGRADIENT WELLS

The downgradient well locations are MW-2, MW-10, MW-13S, MW-16, MW-18S, and MW-19. They are primarily located outside and downgradient of the HRC-S injection area. Refer to Figure 2 for the location of these wells. The analytical data is summarized in Tables I and III, and concentration trends are depicted in Appendix C.

Parent VOC concentrations (PCE, TCE, and 1,1,1-TCA) were generally consistent with the previous sampling event and historical trends. Concentrations for total VOCs detected were generally lower or consistent with historical fluctuation in the 2019 sampling event compared to previous sampling events dating back to 2006 when remediation was deemed complete at the Site. Refer to Appendix C for a graphical depiction of the total VOC data trends with time.

Results at wells MW-13S, MW-16 and MW-18S located near the downgradient edge of the SGMA indicate that the plume remains within the SGMA (see Table I and Appendix C). Total VOC concentrations were non-detect at MW-13S for the first time since samples were collected starting in 2006, and total VOC concentrations at wells MW-16 and MW-18S, located just outside the downgradient edge of the SGMA, remain non-detect indicating that the impacted groundwater plume is stable and/or decreasing.

3.3 SURFACE WATER

Samples were collected from two of the three surface water locations, SW-34 and SW-35. SW-29, which historically has non-detectable VOC concentrations, was dry during the sampling event and therefore was not sampled. VOCs were not detected in SW-34 and SW-35 which is consistent with historical trends. Refer to Figure 2 for locations of surface water samples. Analytical results are summarized in Table III.

4. Emerging Contaminant Sampling Summary

The NYSDEC issued a letter to Xerox on 6 March 2019 requiring that sampling for emerging contaminants 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS) be performed at the Site. In response to this request, Xerox submitted a Work Plan for the Proposed Sampling for Emerging Contaminants (Work Plan), dated March 2019 to the NYSDEC, and the Work Plan was approved by the NYSDEC in March 2019. Groundwater sampling of three (3) monitoring wells, MW-24S (upgradient of source area), VE-12 (source area), and MW-13S (downgradient of source area), was completed by ALS Environmental on 10 September 2019 in accordance with the approved Work Plan. Groundwater samples were collected using dedicated high-density polyethylene (HDPE) bailers and containerized for laboratory analysis of PFAS compounds using modified (low level) EPA Method 537 and 1,4-dioxane using EPA Method 8270C in selective ion monitoring (SIM) mode. Prior to sample collection, approximately three well volumes were purged from each well or until the well purged dry. The results of the sampling are summarized in Table IV and the analytical laboratory report is included in Appendix B.

4.1 PFAS SAMPLING RESULTS

PFAS compounds were detected at concentrations above the laboratory reporting limit of 2 nanograms per liter (ng/L) in all the groundwater samples collected (Table IV). The total PFAS compound concentration ranged from 4.99 to 52.1 ng/L with the highest concentration detected at the source area well location VE-12. Total concentrations of perfluoro octane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) detected in the samples ranged from non-detect to 47.1 ng/L which is below the USEPA Lifetime Health Advisory Limit[1] (HAL) for drinking water resources of 70 ng/L (USEPA, 2016). The highest PFOA/PFOS concentration of 47.1 ng/L was detected at source area well VE-12, while upgradient well MW-24S and downgradient well MW-13S exhibited total PFOS/PFOA concentrations of 6.5 ng/L and 4.99 ng/L, respectively. Due to the detection of PFOS/PFOA in the upgradient well location, the presence of these compounds at the Site appears to be due in part to unknown sources located upgradient of the site. There is low risk to human health and the environment from the presence of PFAS since the concentrations are well below the USEPA lifetime HAL for drinking water (70 ng/L).

4.2 1,4-DIOXANE SAMPLING RESULTS

1,4-dioxane was detected above laboratory detection limits in each of the three samples collected. Concentrations in wells MW-24S (upgradient) and MW-13S (downgradient) were 0.035 to 0.067 ug/l, which were below the NYSDEC required detection limit of 0.28 ug/L. The concentration of 1,4-dioxane detected at source area well VE-12 was 590 ug/L, which exceeds the USEPA lifetime HAL of 200 ug/L (USEPA, 2017)[2]. 1,4-dioxane is known to have been historically used as a stabilizer for chlorinated hydrocarbons used in industrial applications[3] (Mohr 2001). Groundwater sampling conducted at VE-12

[1] United States Environmental Protection Agency (EPA), *Fact Sheet PFOA & PFOS Drinking Water Health Advisories*, EPA 800-F-16-003, November 2016.

[2] United States Environmental Protection Agency (EPA), *Technical Fact Sheet – 1,4-Dioxane*, Office of Land and Emergency Management, EPA 505-F-17-101, November 2017.

[3] Mohr, Thomas K.G., *Solvent Stabilizers White Paper*, Santa Clara Valley Water District, June 2001.

has identified elevated concentrations of chlorinated hydrocarbons including 1,1,1-TCA, 1,1-DCE, cis-1,2-DCE and vinyl chloride (Table IV). The presence of 1,4-dioxane at this location may be associated with the presence of these compounds. Based on the low concentration of 1,4-dioxane in downgradient well MW-13S which is below the NYSDEC detection limit, 1,4-dioxane does not appear to be migrating significantly beyond the residual source area.

5. Sub-Slab Depressurization System

5.1 SYSTEM OPERATION & MAINTENANCE SUMMARY

The SSD system continues to operate at the Site. During the 2019 reporting period, there were no noted shutdowns of the system, and observed sub-slab vacuum readings were consistent with historical levels.

5.2 SUB-SLAB VACUUM MONITORING

On 27 September 2019, sub-slab vacuum readings were collected from vacuum monitoring floor points using a calibrated handheld manometer. Vacuum measurements from the vacuum monitoring points met the SSD system design criteria of 0.002 inches of water column (see Table V). Overall, monitoring results show that the system is working effectively within the zone of influence.

In addition to vacuum monitoring at floor points, readings from suction points were collected using permanently-installed gauges. Readings from the suction points indicated that the seven SSD system fans in operation during the monitoring event are providing adequate coverage of the area where the SSD system is applied. Suction point vacuum readings are included in Table VI.

6. SGMA Activities and Site Improvements

A visual inspection by Haley & Aldrich of the SGMA was performed on 27 September 2019 and confirmed that the protective cover and fencing remain in place and effective in limiting exposure to residual Site contamination within the SGMA. During 2019, there were no ground intrusive activities that took place within the SGMA. In August 2019, L3Harris performed maintenance activities within the SGMA area to cut back trees and brush from pathways to select monitoring wells and surface water sampling points. These activities were not ground intrusive.

During the 2019 reporting period, L3Harris did not conduct any ground intrusive site improvement projects outside of the SGMA. L3Harris notified the NYSDEC in October 2019 of a nitrogen tank pad expansion project that was planned to take place during the 2020 calendar year.

7. Recommendations and Future Activities

Xerox will continue the following activities as stipulated in the SMP:

- Groundwater well monitoring and sampling;
- Monitoring of the SSDS; and
- Preparation and submittal of annual PRRs.

TABLES

TABLE I
TOTAL VOCS IN GROUNDWATER SINCE 2008
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

WELL ID	Dec-08	Jun-09	Jun-10/Jul-10	Oct-11	Aug-12	Sep-13	Jul-14	Aug-15	Aug-16	3/29/2017 Resampling	Sep-17	Aug-18	Aug-19
RW-4	4,540	1,340	1,230	10,631	940	666	1,823	747	227	NS	76	75	59
MW-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
MW-10	2,470	1,417	1,002	2,668	2,885	869	1,686	1,100	1,012	910	1,047	1,259	1,111
MW-13S	73.6	95.0	75.7	63.4	71	74	68.4	76.8	5.4	NS	6.6	20.0	ND
MW-16	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
MW-18S	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	16	ND
MW-19	107.9	725	1,410	518	1,371	997	303	606	7,953	973	393	1,269	728
MW-24S	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND
VE-6	9,770	25,380	80,970	46,000	39,300	44,400	49,500	25,900	16,530	NS	20,360	17,120	5,970
VE-10	47,650	90,400	43,800	62,000	76,600	62,900	44,100	44,600	88,000	NS	1,394	2,438	4,363
VE-12	120,300	127,500	97,000	173,800	101,700	69,400	97,800	68,400	40,900	NS	2,208	17,110	18,450
VE-15	30,250	26,100	43,800	8,207	1,592	1,248	4,909	830	530	NS	575	349	551

TABLE II
SITE WATER LEVEL DATA
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Well ID	Reference Elevation	Depth to Water	
		August 2018	August 2019
RW-4	498.84	4.36	4.43
MW-2	498.49	4.41	4.96
MW-10	498.45	4.45	4.78
MW-13S	498.35	6.33	5.65
MW-16	498.83	10.04	9.38
MW-18S	498.81	6.32	5.38
MW-19	498.53	6.91	6.88
MW-24S	503.44	4.73	4.78
VE-6	498.93	4.75	5.25
VE-10	500.04	4.44	4.87
VE-12	501.09	4.68	4.87
VE-15	499.73	4.88	5.50

Notes:

1. Elevations measured in feet above mean sea level.
2. Depth to water measured from the top of the well riser.
3. Water levels measured by ALS.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	VE-12															
Analyte or Method	12/12/2006	6/14/2007	12/18/2007	6/12/2008	12/18/2008	6/22/2009	7/1/2010	10/11/2011	8/23/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	9/27/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																
Acetone	ND (4000)	ND (4000)	ND (4000)	ND (8000)	ND (8000)	ND (4000)	ND (10000)	ND (10000)	ND (2500)	ND (2500) J	ND (2500)	ND (2500)	ND (2000)	ND (100)	ND (1000)	ND (500)
Benzene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Bromodichloromethane	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Bromoform	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Bromomethane (Methyl Bromide)	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
2-Butanone (Methyl Ethyl Ketone)	ND (2000)	ND (2000)	ND (2000)	ND (4000)	ND (4000)	ND (2000)	ND (5000)	ND (5000)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2,000)	110	ND (500)	930
Carbon Disulfide	ND (2000)	ND (2000)	ND (2000)	ND (4000)	ND (4000)	ND (2000)	ND (5000)	ND (5000)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2,000)	ND (100)	ND (1000)	ND (500)
Carbon Tetrachloride	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Chlorobenzene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND(50)	ND (500)	ND (250)
Chloroethane	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	1,400	2,700	4,800	9,200	1,400	6,400	7,800
Chloroform (Trichloromethane)	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Chloromethane (Methyl Chloride)	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Dibromochloromethane	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
1,1-Dichloroethane	14,000	9,600	11,000	7,200	18,000	8,800	11,000	12,000	17,000	16,000	16,000	15,000	4,900	330	960	1,700
1,2-Dichloroethane	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
1,1-Dichloroethene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	1,700	ND (2500)	ND (2500)	ND (1300)	ND (1300)	1,400	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
cis-1,2-Dichloroethene	4,100	23,000	19,000	40,000	57,000	73,000 D	48,000	100,000	44,000	27,000	45,000	14,000	5,800	ND(50)	ND (500)	1,100
trans-1,2-Dichloroethene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
1,2-Dichloropropane	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Cis-1,3-Dichloropropene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
trans-1,3-Dichloropropene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Ethylbenzene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
2-Hexanone	ND (2000)	ND (2000)	ND (2000)	ND (4000)	ND (4000)	ND (2000)	ND (5000)	ND (5000)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2,000)	ND (100)	ND (500)	ND (250)
Methylene Chloride	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	88	ND (500)	ND (250)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (2000)	ND (2000)	ND (2000)	ND (4000)	ND (4000)	ND (2000)	ND (5000)	ND (5000)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2,000)	ND (100)	ND (1000)	ND (500)
Styrene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300) J	ND (1300) J	ND (1300) J	ND (1300)	ND (50)	ND (500)	ND (250)
1,1,2,2-Tetrachloroethane	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Tetrachloroethene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Toluene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	650	680
1,1,1-Trichloroethane	ND (1000)	4,600	1,800	7,200	3,300	11,000	4,000	8,800	2,700	ND (1300)	4,700	1,600	ND (1,000)	ND (50)	ND (500)	440
1,1,2-Trichloroethane	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Trichloroethene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
Vinyl Chloride	30,000	37,000	44,000 D	31000	42000	33,000	34,000	53,000	38,000	25,000	28,000	33,000	21,000	280	9,100	5,800
o-Xylene	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)
m,p-Xylenes	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (2000)	ND (1000)	ND (2500)	ND (2500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1,000)	ND (50)	ND (500)	ND (250)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
J-: Estimated and biased low

1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	VE-10																				
Analyte or Method	11/23/2003	11/24/2003 DUPLICATE	12/2/2004	3/29/2005	6/23/2006	12/12/2006	6/13/2007	12/18/2007	6/12/2008	12/17/2008	6/22/2009	7/1/2010	10/11/2011	8/22/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	9/27/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																					
Acetone	ND (1000)	ND (2000)	ND (1000)	ND (1000)	ND (5000)	ND (5000)	ND (8000)	ND (5000)	ND (4000)	ND (1000)	ND (4000)	ND (5000)	ND (5000)	ND (2500)	ND (2500) J	ND (2500)	ND (2000)	ND (5,000)	ND (50)	ND (50)	ND (50)
Benzene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Bromodichloromethane	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Bromoform	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Bromomethane (Methyl Bromide)	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
2-Butanone (Methyl Ethyl Ketone)	ND (500)	ND (1000)	ND (500)	ND (500)	ND (2500)	ND (2500)	ND (4000)	ND (2500)	ND (2000)	ND (500)	ND (2000)	ND (2500)	ND (2500)	ND (2500)	ND (2500) J	ND (2500)	ND (2000)	ND (5,000)	ND (50)	ND (50)	ND (50)
Carbon Disulfide	ND (500)	ND (1000)	ND (500)	ND (500)	ND (2500)	ND (2500)	ND (4000)	ND (2500)	ND (2000)	ND (500)	ND (2000)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2000)	ND (5,000)	ND (50)	ND (50)	ND (50)
Carbon Tetrachloride	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Chlorobenzene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Chloroethane	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	1,300	2,100	1,800	2,000	2,600	2,900	2,100	4,500	5,000	670	1,500	1900 J-
Chloroform (Trichloromethane)	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Chloromethane (Methyl Chloride)	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Dibromochloromethane	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
1,1-Dichloroethane	1,200	1,200	1,100	1,300	1,600	1,600	2,600	2,700	3,000	850	1,300	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	64	120	260 J-
1,2-Dichloroethane	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
1,1-Dichloroethene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
cis-1,2-Dichloroethene	17,000 E	17,000 D	17,000 D	18,000 D	42,000	40,000	79,000	17,000	18,000	4,500	36,000	14,000	23,000	48,000	28,000	22,000	6,100	50,000	ND (25)	79	72 J-
trans-1,2-Dichloroethene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	40	73	76 J-
1,2-Dichloropropane	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Cis-1,3-Dichloropropene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
trans-1,3-Dichloropropene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Ethylbenzene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
2-Hexanone	ND (500)	ND (1000)	ND (500)	ND (500)	ND (2500)	ND (2500)	ND (4000)	ND (2500)	ND (2000)	ND (500)	ND (2000)	ND (2500)	ND (2500)	ND (2500)	ND (2500) J	ND (2500)	ND (2000)	ND (5,000)	ND (25)	ND (25)	ND (25)
Methylene Chloride	450	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	33	56	55 J-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (500)	ND (1000)	ND (500)	ND (500)	ND (2500)	ND (2500)	ND (4000)	ND (2500)	ND (2000)	ND (500)	ND (2000)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2000)	ND (5,000)	ND (50)	ND (50)	ND (50)
Styrene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300) J	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
1,1,2,2-Tetrachloroethane	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Tetrachloroethene	1,100	1,000	820	1,000	2,800	1,700	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Toluene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
1,1,1-Trichloroethane	2,000	2,000	1,600	2,000	4,000	3,200	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
1,1,2-Trichloroethane	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Trichloroethene	1,400	1,300	1,200	ND (250)	4,000	1,800	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
Vinyl Chloride	ND (250)	ND (500)	ND (250)	1,900	ND (1250)	ND (1250)	ND (2000)	24,000	33,000	41,000 D	51,000 D	28,000	37,000	26,000	32,000	20,000	34,000	33,000	620	610	2000 J-
o-Xylene	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)
m,p-Xylenes	ND (250)	ND (500)	ND (250)	ND (250)	ND (1250)	ND (1250)	ND (2000)	ND (1300)	ND (1000)	ND (250)	ND (1000)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (2,500)	ND (25)	ND (25)	ND (25)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
J-: Estimated and biased low

1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	VE-6																
Analyte or Method	6/23/2006	12/13/2006	6/13/2007	########	6/11/2008	########	6/23/2009	6/28/2010	10/12/2011	8/23/2012	9/5/2013	7/30/2014	8/26/2015	8/30/2016	9/26/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																	
Acetone	ND (4000)	ND (2000)	ND (2000)	ND (400)	ND (400)	ND (1000)	ND (2000)	ND (2000)	ND (5000)	ND (2500)	ND (2500) J	ND (2500)	ND (2000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (250)
Benzene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Bromodichloromethane	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Bromoform	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Bromomethane (Methyl Bromide)	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
2-Butanone (Methyl Ethyl Ketone)	ND (2000)	ND (1000)	ND (1000)	ND (200)	ND (200)	ND (500)	ND (1000)	ND (1000)	ND (2500)	ND (2500)	ND (2500) J	ND (2500)	ND (2000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (250)
Carbon Disulfide	ND (2000)	ND (1000)	ND (1000)	ND (200)	ND (200)	ND (500)	ND (1000)	ND (1000)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (250)
Carbon Tetrachloride	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Chlorobenzene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Chloroethane	ND (1000)	ND (500)	ND (500)	ND (100)	110	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	190 J-
Chloroform (Trichloromethane)	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Chloromethane (Methyl Chloride)	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Dibromochloromethane	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
1,1-Dichloroethane	1,100	900	1,800	120	1,800	300	980	2,400	1,700	1,900	2,100	2,200	1,200	720	980	680	300 J-
1,2-Dichloroethane	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
1,1-Dichloroethene	ND (1000)	530	820	ND (100)	ND (100)	ND (250)	ND (500)	600	1,300	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	510	520	130 J-
cis-1,2-Dichloroethene	22,000	18,000	32,000 D	2,700	8000 D	8,500	18,000	66,000 D	40,000 D	34,000	36,000	39,000	20,000	14,000	14,000	13,000	3900 J-
trans-1,2-Dichloroethene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	570	1,300	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
1,2-Dichloropropane	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Cis-1,3-Dichloropropene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
trans-1,3-Dichloropropene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Ethylbenzene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
2-Hexanone	ND (2000)	ND (1000)	ND (1000)	ND (200)	ND (200)	ND (500)	ND (1000)	ND (1000)	ND (2500)	ND (2500)	ND (2500) J	ND (2500)	ND (2000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (250)
Methylene Chloride	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (2000)	ND (1000)	ND (1000)	ND (200)	ND (200)	ND (500)	ND (1000)	ND (1000)	ND (2500)	ND (2500)	ND (2500)	ND (2500)	ND (2000)	ND (1,000)	ND (1,000)	ND (1,000)	ND (250)
Styrene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300) J	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
1,1,2,2-Tetrachloroethane	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Tetrachloroethene	11,000	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Toluene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
1,1,1-Trichloroethane	10,000	4,000	6,000	340	920	970	1,700	4,700	2,400	3,400	3,100	5,500	1,600	710	970	620	150 J-
1,1,2-Trichloroethane	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Trichloroethene	6,800	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
Vinyl Chloride	ND (1000)	ND (500)	1,400	140	8000 D	ND (250)	4,700	6,700	1,900	ND (1300)	3,200	2,800	3,100	1,100	3,900	2,300	1300 J-
o-Xylene	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)
m,p-Xylenes	ND (1000)	ND (500)	ND (500)	ND (100)	ND (100)	ND (250)	ND (500)	ND (500)	ND (1300)	ND (1300)	ND (1300)	ND (1300)	ND (1000)	ND (500)	ND (500)	ND (500)	ND (130)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
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1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	VE-15																
Analyte or Method	6/23/2006	12/13/2006	6/13/2007	########	6/11/2008	12/18/2008	6/23/2009	7/1/2010	10/11/2011	8/23/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	9/26/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																	
Acetone	ND (5000)	ND (2000)	ND (2000)	ND (2000)	ND (4000)	ND (1000)	ND (1000)	250	160	140	94 J	110	87	ND (50)	ND (50)	ND (25)	ND (25)
Benzene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Bromodichloromethane	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Bromoform	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Bromomethane (Methyl Bromide)	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
2-Butanone (Methyl Ethyl Ketone)	ND (2500)	ND (1000)	ND (1000)	ND (1000)	ND (2000)	650	ND (500)	430	300	210	140	130	82	ND (50)	ND (50)	ND (25)	ND (25)
Carbon Disulfide	ND (2500)	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (500)	ND (500)	ND (50)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (25)	ND (25)
Carbon Tetrachloride	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Chlorobenzene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Chloroethane	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	880	2,200	1,100	940	1,400	610	530	540	250	360 J-
Chloroform (Trichloromethane)	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Chloromethane (Methyl Chloride)	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Dibromochloromethane	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
1,1-Dichloroethane	2,600	940	3,100	2,300	2,400	1,900	2,000	400	650	83	41	720	51	ND (25)	25	99	170 J-
1,2-Dichloroethane	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
1,1-Dichloroethene	ND (1250)	ND (500)	500	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
cis-1,2-Dichloroethene	38,000	12,000	43,000 D	3,400 D	29,000	19,000 D	9,100	130	1,600	ND (50)	ND (25)	1,200	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
trans-1,2-Dichloroethene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	160	540	59	33	250	ND (25)	ND (25)	ND (25)	ND (13)	21 J-
1,2-Dichloropropane	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Cis-1,3-Dichloropropene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
trans-1,3-Dichloropropene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Ethylbenzene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
2-Hexanone	ND (2500)	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (500)	ND (500)	150	50	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (25)	ND (25)
Methylene Chloride	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	46	140	ND (50)	-	99	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (2500)	ND (1000)	ND (1000)	ND (1000)	ND (2000)	ND (500)	ND (500)	ND (50)	ND (50)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (25)	ND (25)
Styrene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25) J	ND (25) J	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
1,1,2,2-Tetrachloroethane	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Tetrachloroethene	4,100	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Toluene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
1,1,1-Trichloroethane	7,500	880	600	ND (500)	ND (1000)	ND (250)	ND (250)	38	67	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
1,1,2-Trichloroethane	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Trichloroethene	5,400	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
Vinyl Chloride	ND (1250)	620	2,900	3,100	5,400	8,700	15,000 D	340	2,500	ND (50)	ND (25)	1,000	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
o-Xylene	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)
m,p-Xylenes	ND (1250)	ND (500)	ND (500)	ND (500)	ND (1000)	ND (250)	ND (250)	ND (25)	ND (25)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (13)	ND (13)

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1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

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TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	RW-4																
Analyte or Method	6/16/2006	11/29/2006	6/13/2007	12/20/2007	6/11/2008	12/17/2008	6/24/2009	6/28/2010	10/11/2011	8/23/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	9/26/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																	
Acetone	ND (5000)	ND (2000)	NA	ND (500)	ND (2000)	ND (500)	ND (1000)	ND (100)	ND (100)	ND (50)	ND (50) J	ND (50)	ND (50)	ND (10)	ND (10)	ND (10)	ND (10)
Benzene	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	ND (1300)	ND (500)	ND (250)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	ND (2500)	ND (1000)	NA	ND (250)	ND (1000)	ND (250)	ND (500)	55	100	ND (50)	ND (50) J	ND (50)	ND (50)	11	ND (10)	ND (10)	ND (10)
Carbon Disulfide	ND (2500)	ND (1000)	NA	ND (250)	ND (1000)	ND (250)	ND (500)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Tetrachloride	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Chlorobenzene	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	36	760	40	43	85	37	7	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	ND (1300)	ND (500)	ND (250)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethane	7,800	1,300	560	1,500	1,500	620	390	150	390	150	75	160	100	64	27	19	16 J-
1,2-Dichloroethane	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethene	3,100	ND (500)	52	330	ND (500)	ND (130)	ND (250)	ND (25)	ND (30)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	41,000 D	14,000	3,500	24,000 D	20,000 D	3,200	690	910	5,000	620	470	1,300	500	92	ND (5)	15	14 J-
trans-1,2-Dichloroethene	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (170)	ND (25)	ND (25)	ND (25)	ND (25)	5	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Cis-1,3-Dichloropropene	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	ND (2500)	ND (1000)	NA	ND (250)	ND (1000)	ND (250)	ND (500)	ND (50)	ND (50)	ND (50)	ND (50) J	ND (50)	ND (50)	12	ND (10)	ND (10)	ND (10)
Methylene Chloride	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (31)	ND (25)	ND (25)	ND (25)	ND (25)	7	12	13	13.0
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (2500)	ND (1000)	NA	ND (250)	ND (1000)	ND (250)	ND (500)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	ND (10)	ND (10)	ND (10)	ND (10)
Styrene	ND (1300)	ND (500)	NA	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25) J	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	ND (1300)	ND (500)	ND (500)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	1,500	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	14,000	660	100	1,400	720	ND (130)	ND (250)	29	220	ND (25)	ND (25)	40	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	ND (1300)	ND (500)	ND (100)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	5,800	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	8	16	13	7.9 J-
Vinyl Chloride	3,500	1,800	570	1,900	4,300 D	720	260	50	4,200	130	78	210	110	21	21	15	9.3 J-
o-Xylene	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)
m,p-Xylenes	ND (1300)	ND (500)	ND (50)	ND (130)	ND (500)	ND (130)	ND (250)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (5)	ND (5)	ND (5)	ND (5)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
J-: Estimated and biased low

1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	MW-2															
Analyte or Method	6/16/2006	11/29/2006	6/13/2007	12/20/2007	6/11/2008	12/17/2008	6/24/2009	6/28/2010	10/11/2011	8/22/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	9/27/2017	8/28/2018
VOCs 8260B (ug/L)																
Acetone	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Disulfide	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Tetrachloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chlorobenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5.0)	ND (5.0)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cis-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Methylene Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Styrene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5.0)	ND (5.0)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
o-Xylene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
m,p-Xylenes	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

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1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	MW-10																	
Analyte or Method	6/16/2006	11/29/2006	6/13/2007	12/20/2007	6/11/2008	12/17/2008	6/24/2009	6/22/2010	10/11/2011	8/22/2012	9/5/2013	7/30/2014	8/26/2015	8/26/2015 DUPLICATE	8/31/2016	Resample 3/29/2017	9/26/2017	8/28/2018
VOCs 8260B (ug/L)																		
Acetone	ND (100)	ND (200)	ND (100)	ND (100)	ND (200)	ND (200)	ND (40)	ND (50)	ND (200)	ND (100)	ND (50) J	ND (50)	ND (50)	ND (50)	ND (50)	NA	ND (50)	ND (50)
Benzene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Bromodichloromethane	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Bromoform	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Bromomethane (Methyl Bromide)	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
2-Butanone (Methyl Ethyl Ketone)	ND (50)	ND (100)	ND (50)	ND (50)	ND (100)	ND (100)	ND (20)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	NA	ND (50)	ND (50)
Carbon Disulfide	ND (50)	ND (100)	ND (50)	ND (50)	ND (100)	ND (100)	ND (20)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	NA	ND (50)	ND (50)
Carbon Tetrachloride	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Chlorobenzene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Chloroethane	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Chloroform (Trichloromethane)	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Chloromethane (Methyl Chloride)	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Dibromochloromethane	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
1,1-Dichloroethane	97	120	73	160	180	190	100	86	200	240	88	170	110	110	99	99	110	120 J-
1,2-Dichloroethane	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
1,1-Dichloroethene	ND (25)	ND (50)	ND (25)	28	ND (50)	ND (50)	16	17	50	ND (50)	ND (25)	28	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
cis-1,2-Dichloroethene	1,000 D	1,300	660	1,300 D	1,900	1,800	1,100 D	700 D	1,900 D	2,000	610	1,100	750	780	720	640	720	690 J-
trans-1,2-Dichloroethene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	15	50	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
1,2-Dichloropropane	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Cis-1,3-Dichloropropene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
trans-1,3-Dichloropropene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Ethylbenzene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
2-Hexanone	ND (50)	ND (100)	ND (50)	ND (50)	ND (100)	ND (100)	ND (20)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	NA	ND (50)	ND (50)
Methylene Chloride	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (50)	ND (100)	ND (50)	ND (50)	ND (100)	ND (100)	ND (20)	ND (25)	ND (100)	ND (100)	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	NA	ND (50)	ND (50)
Styrene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25) J	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
1,1,2,2-Tetrachloroethane	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Tetrachloroethene	52	53	26	31	ND (100)	ND (50)	14	ND (13)	ND (54)	65	ND (25)	41	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Toluene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
1,1,1-Trichloroethane	ND (25)	62	33	67	76	88	40	27	84	110	27	70	32	34	26	28	28	39 J-
1,1,2-Trichloroethane	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
Trichloroethene	93	97	58	82	98	92	47	47	120	130	53	97	68	69	68	67	29	72 J-
Vinyl Chloride	160	160	74	180	270	300	100	110	310	340	91	180	140	150	99	76	160	190 J-
o-Xylene	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)
m,p-Xylenes	ND (25)	ND (50)	ND (25)	ND (25)	ND (50)	ND (50)	ND (10)	ND (13)	ND (50)	ND (50)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	NA	ND (25)	ND (25)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
J-: Estimated and biased low

1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	MW-13S																
Analyte or Method	6/16/2006	11/29/2006	6/13/2007	12/20/2007	6/11/2008	12/17/2008	6/24/2009	6/22/2010	10/11/2011	8/22/2012	9/5/2013	7/29/2014	8/26/2015	8/31/2016	9/26/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																	
Acetone	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10) J	ND (10) J	ND (10)	ND (10)	ND (15)	ND (5)
Benzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Disulfide	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Tetrachloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chlorobenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	97	56	34	34	26	18	21	11	9.4	13	16	14	22	5	7	5	ND (5)
trans-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cis-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Methylene Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Styrene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5.0) J	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	56	42	23	26	23	18	29	28	23	20	20	20	17	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	34	19	10	10	9.2	6.6	9	6.7	5	7.4	7	6	7	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	94	66	42	47	40	31	36	30	31	31	31	28	31	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
o-Xylene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
m,p-Xylenes	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
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R: Rejected
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1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	MW-16																		
Analyte or Method	6/16/2006	11/29/2006	6/13/2007	12/20/2007	6/11/2008	12/17/2008	6/24/2009	7/1/2010	10/11/2011	8/22/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	8/31/2016 DUPLICATE	9/26/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																		
Acetone	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10) J	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Disulfide	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Tetrachloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chlorobenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cis-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Methylene Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Styrene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
o-Xylene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
m,p-Xylenes	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

Notes & Abbreviations:

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ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
J-: Estimated and biased low

1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	MW-18S															
Analyte or Method	11/29/2006	6/13/2007	12/20/2007	6/11/2008	12/17/2008	6/24/2009	6/22/2010	10/11/2011	8/22/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	9/26/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																
Acetone	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10) J	ND (10)	ND (10)	ND (10)	16	ND (5)
Benzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Disulfide	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Tetrachloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chlorobenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cis-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Methylene Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Styrene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
o-Xylene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
m,p-Xylenes	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
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D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
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1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	MW-19																	
Analyte or Method	6/16/2006	11/29/2006	6/13/2007	12/20/2007	6/11/2008	12/17/2008	6/24/2009	6/22/2010	10/12/2011	8/22/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	Resample 3/29/2017	9/26/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																		
Acetone	ND (100)	ND (200)	ND (200)	ND (20)	ND (40)	ND (20)	ND (20)	ND (40)	ND (40)	ND (20)	ND (50) J	ND (50)	ND (10)	ND (25)	NA	ND (20)	ND (50)	ND (50)
Benzene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Bromodichloromethane	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Bromoform	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Bromomethane (Methyl Bromide)	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
2-Butanone (Methyl Ethyl Ketone)	ND (50)	ND (100)	ND (100)	ND (10)	ND (20)	ND (10)	ND (10)	ND (20)	ND (20)	ND (20)	ND (50) J	ND (50)	ND (10)	ND (25)	NA	ND (20)	ND (50)	ND (50)
Carbon Disulfide	ND (50)	ND (100)	ND (100)	ND (10)	ND (20)	ND (10)	ND (10)	ND (20)	ND (20)	ND (20)	ND (50)	ND (50)	ND (10)	ND (25)	NA	ND (20)	ND (50)	ND (50)
Carbon Tetrachloride	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Chlorobenzene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Chloroethane	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Chloroform (Trichloromethane)	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Chloromethane (Methyl Chloride)	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Dibromochloromethane	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
1,1-Dichloroethane	210	240	280	14	92	9.5	63	150	43	150	120	38	73	320	88	42	100	65
1,2-Dichloroethane	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
1,1-Dichloroethene	80	100	95	5.6	26	ND (5)	22	69	17	63	41	10	14	120	27	11	40	21
cis-1,2-Dichloroethene	1,000 D	1,400	1,600	36	240	24	330 D	910 D	260 D	580	620	170	340	3,700	550	220	590	370
trans-1,2-Dichloroethene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	18	10	ND (10)	ND (25)	ND (25)	12	63	NA	ND (10)	ND (25)	ND (25)
1,2-Dichloropropane	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Cis-1,3-Dichloropropene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
trans-1,3-Dichloropropene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Ethylbenzene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
2-Hexanone	ND (50)	ND (100)	ND (100)	ND (10)	ND (20)	ND (10)	ND (10)	ND (20)	ND (20)	ND (20)	ND (50) J	ND (50)	ND (10)	ND (25)	NA	ND (20)	ND (50)	ND (50)
Methylene Chloride	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (50)	ND (100)	ND (100)	ND (10)	ND (20)	ND (10)	ND (10)	ND (20)	ND (20)	ND (20)	ND (50)	ND (50)	ND (10)	ND (25)	NA	ND (25)	ND (25)	ND (25)
Styrene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25) J	ND (25) J	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
1,1,2,2-Tetrachloroethane	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Tetrachloroethene	38	ND (50)	ND (50)	15	22	7.4	16	ND (10)	ND (10)	13	ND (25)	ND (25)	ND (5.0)	120	NA	ND (10)	ND (25)	ND (25)
Toluene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
1,1,1-Trichloroethane	120	140	140	22	71	13	54	100	38	87	67	24	36	340	26	11	49	22
1,1,2-Trichloroethane	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
Trichloroethene	330	340	100	90	310	54	240 D	140	160	420	110	52	99	3,100	250	94	450	220
Vinyl Chloride	ND (25)	ND (50)	66	ND (5)	ND (10)	ND (5)	ND (5)	23	ND (10)	58	39	9	32	190	32	15	40	30
o-Xylene	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)
m,p-Xylenes	ND (25)	ND (50)	ND (50)	ND (5)	ND (10)	ND (5)	ND (5)	ND (10)	ND (10)	ND (10)	ND (25)	ND (25)	ND (5.0)	ND (13)	NA	ND (10)	ND (25)	ND (25)

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1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	MW-24S																
Analyte or Method	6/16/2006	11/29/2006	6/13/2007	12/20/2007	6/11/2008	12/17/2008	6/24/2009	6/28/2010	10/11/2011	8/22/2012	9/5/2013	7/30/2014	8/26/2015	8/31/2016	9/27/2017	8/28/2018	8/26/2019
VOCs 8260B (ug/L)																	
Acetone	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10) J	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Disulfide	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Tetrachloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chlorobenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cis-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Methylene Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Styrene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
o-Xylene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
m,p-Xylenes	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
J-: Estimated and biased low

1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	SW-29							SW-34														
Analyte or Method	11/29/2006	12/20/2007	6/24/2009	6/23/2010	10/11/2011	8/22/2012	7/29/2014	11/29/2006	6/13/2007	12/20/2007	6/12/2008	12/18/2008	6/24/2009	6/23/2010	10/11/2011	8/23/2012	9/5/2013	7/29/2014	8/26/2015	8/31/2016	9/26/2017	8/28/2018
VOCs 8260B (ug/L)																						
Acetone	ND (20)	ND (50)	ND (40)	ND (20)	ND (20)	ND (10)	ND (10)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	ND (10)	ND (25)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Disulfide	ND (10)	ND (25)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Tetrachloride	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chlorobenzene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloroethane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,2-Dichloroethene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cis-1,3-Dichloropropene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	ND (10)	ND (25)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Methylene Chloride	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (10)	ND (25)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Styrene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
o-Xylene	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
m,p-Xylenes	ND (5)	ND (13)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
J-: Estimated and biased low

1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE III
GROUNDWATER & SURFACE WATER MONITORING ANALYTICAL SUMMARY
FORMER XEROX BUILDING 801
HENRIETTA, NEW YORK

Sample ID	SW-35																	
Analyte or Method	6/16/2006	11/29/2006	12/20/2007	6/12/2008	12/18/2008	6/24/2009	6/23/2010	10/11/2011	8/23/2012	9/5/2013	7/29/2014	8/26/2015	8/31/2016	9/26/2017	8/28/2018	8/28/2018 Duplicate	8/26/2019	8/26/2019 Duplicate
VOCs 8260B (ug/L)																		
Acetone	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (40)	ND (20)	ND (20)	ND (10)	ND (10)	ND (10) J	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Benzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromodichloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromoform	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Bromomethane (Methyl Bromide)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Butanone (Methyl Ethyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Disulfide	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Carbon Tetrachloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chlorobenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloroform (Trichloromethane)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Chloromethane (Methyl Chloride)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Dibromochloromethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethane	ND (5)	6.3	8.6	ND (5)	15	19	ND (5)	16	ND (5)	ND (5)	14	6	ND (5)	ND (5)	6	6	ND (5)	ND (5)
1,2-Dichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
cis-1,2-Dichloroethene	20	15	86	ND (5)	140	110	ND (5)	73	11	ND (5)	76	20	ND (5)	7	19	19	ND (5)	ND (5)
trans-1,2-Dichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,2-Dichloropropane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Cis-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
trans-1,3-Dichloropropene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Ethylbenzene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
2-Hexanone	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Methylene Chloride	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (20)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
Styrene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5) J	ND (5) J	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2,2-Tetrachloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Tetrachloroethene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Toluene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,1-Trichloroethane	ND (5)	ND (5)	10	ND (5)	21	21	ND (5)	8.8	ND (5)	ND (5)	12	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,1,2-Trichloroethane	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Trichloroethene	ND (5)	ND (5)	ND (5)	ND (5)	5.1	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Vinyl Chloride	ND (5)	12	15	ND (5)	27	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
o-Xylene	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
m,p-Xylenes	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (10)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)

Notes & Abbreviations:

NA: Not Applicable/Not Sampled
ND: Not Detected

D: Diluted (Stopped flagging diluted results starting in 2012.)

R: Rejected
J: Estimated
J-: Estimated and biased low

1. For the December 2008 sampling event, mineral spirits were inadvertently sampled in VE-6 rather than RW-1.

2. Some dates are not shown because samples were not collected during that sampling period.

3. Sample results from June 2006 through the most recent event are shown. Refer to previously prepared semi-annual reports for older historical data.

TABLE IV

EMERGING CONTAMINANTS SAMPLING SUMMARY 2019

FORMER XEROX BUILDING 801

HENRIETTA, NEW YORK

		Location	MW-13S	MW-24S	MW-24S	VE-12
		Sample ID	MW-13S 2019 PFAS	MW-24S 2019 PFAS	MW-24S DUP 2019 PFA	VE-12 2019 PFAS
		Sample Date	09/10/2019	09/10/2019	09/10/2019	09/10/2019
		Lab Sample ID	R1908707-001	R1908707-003	R1908707-004	R1908707-002
		Sample Type	Primary	Primary	Duplicate	Primary
Method	**Analyte**	**Unit**				
SW8270D	1,4-Dioxane	ug/L	**0.067**	**0.035 J**	**0.038 J**	**590 J**
E537M	Fluorotelomer sulfonic acid (6:2 FTSA)	ng/L	ND (0.55)	ND (0.55)	ND (0.55)	ND (0.55)
E537M	Fluorotelomer sulfonic acid (8:2 FTSA)	ng/L	ND (0.15)	ND (0.15)	ND (0.15)	ND (0.15)
E537M	N-ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	ng/L	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50) J
E537M	N-methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	ng/L	ND (1.4)	ND (1.4)	ND (1.4)	ND (1.4) J
E537M	Perfluorobutanesulfonic Acid (PFBS)	ng/L	**1.5 J**	ND (0.28)	ND (0.28)	ND (0.28)
E537M	Perfluorobutanoic Acid (PFBA)	ng/L	**3.0 J**	**6.5**	**6.0** **5.3**	ND (0.40)
E537M	Perfluorodecane sulfonic Acid (PFDS)	ng/L	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30) J
E537M	Perfluorodecanoic acid (PFDA)	ng/L	ND (1.2)	ND (1.2)	ND (1.2)	ND (1.2)
E537M	Perfluorododecanoic acid (PFDoDA)	ng/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
E537M	Perfluoroheptane sulfonic acid (PFHpS)	ng/L	ND (0.44)	ND (0.44)	ND (0.44)	ND (0.44)
E537M	Perfluoroheptanoic acid (PFHpA)	ng/L	ND (0.63)	ND (0.63)	ND (0.63)	**2.2 J**
E537M	Perfluorohexanesulfonic acid (PFHxS)	ng/L	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
E537M	Perfluorohexanoic acid (PFHxA)	ng/L	ND (8.8)	ND (8.8)	ND (8.8)	ND (8.8) J
E537M	Perfluorononanoic Acid (PFNA)	ng/L	ND (1.1)	ND (1.1)	ND (1.1)	ND (1.1)
E537M	Perfluorooctane sulfonamide (FOSA)	ng/L	ND (0.52)	ND (0.52)	ND (0.52)	ND (0.52) J
E537M	Perfluorooctanesulfonic acid (PFOS)	ng/L	ND (1.6)	ND (1.7)	ND (0.44)	**5.1 J+**
E537M	Perfluorooctanoic Acid (PFOA)	ng/L	**0.49 J**	ND (0.35)	ND (0.35)	**42**
E537M	Perfluoropentanoic Acid (PFPeA)	ng/L	ND (1.7)	ND (1.7)	ND (1.7)	**2.8 J**
E537M	Perfluorotetradecanoic acid (PFTeDA)	ng/L	ND (2.0) J	ND (2.0)	ND (2.0)	ND (2.0) J
E537M	Perfluorotridecanoic acid (PFTrDA)	ng/L	ND (1.3) J	ND (1.3)	ND (1.3)	ND (1.3) J
E537M	Perfluoroundecanoic acid (PFUnA)	ng/L	ND (1.5)	ND (1.5)	ND (1.5)	ND (1.5)
E537M	Total PFOA/PFOS	ng/L	**0.49 J**	ND (0.35)	ND (0.35)	**47.1**
E537M	Total PFAS	ng/L	**4.99 J**	**6.5**	**6.0**	**52.1**

Notes:

Non-detects (ND) were reported to the laboratory method detection limit (MDL).

Detections are shown in **bold.**

"J" indicates the result was found between the MDL and the reporting limit (RL) and was estimated.

"J+" indicates estimated, biased high.

Perfluorobutanoic Acid (PFBA) was reanalyzed for the duplicate to confirm the concentration. Both results were reported.

TABLE V
SSD SYSTEM FLOOR POINT VACUUM READINGS
FORMER XEROX B801 FACILITY
HENRIETTA, NEW YORK

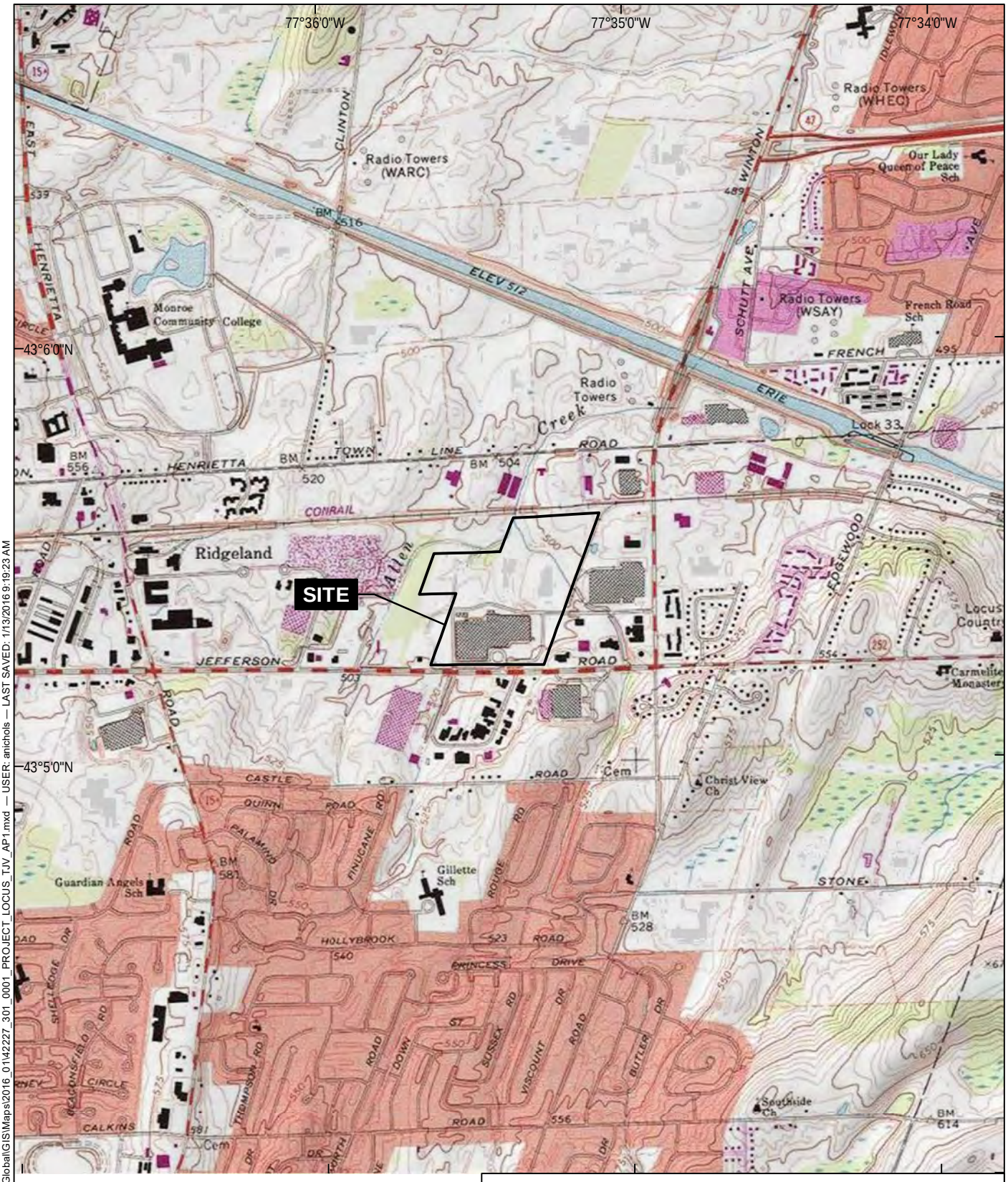
Location ID	5/20/2010 Vacuum Measurement (in. w.c.)	9/19/2011 Vacuum Measurement (in. w.c.)	9/26/2012 Vacuum Measurement (in. w.c.)	9/27/2013 Vacuum Measurement (in. w.c.)	10/21/2014 Vacuum Measurement (in. w.c.)	9/3/2015 Vacuum Measurement (in. w.c.)	9/8/2016 Vacuum Measurement (in. w.c.)	9/27/2017 Vacuum Measurement (in. w.c.)	10/10/2018 Vacuum Measurement (in. w.c.)	11/19/2018 Vacuum Measurement (in. w.c.)	9/27/2019 Vacuum Measurement (in. w.c.)
T-1	0.054	0.048	0.030	0.021	0.022	0.330	0.029	0.050	0.053		0.052
T-3	0.787	0.741	0.663	0.223	0.215	0.247	0.241	0.304	0.3		0.256
T-4	0.048	0.056	0.063	0.031	0.029	0.043	0.04	0.045	0.045		0.051
T-7	0.115	Inaccessible	0.109	0.066	0.055	0.064	0.06	0.057	0.061		0.064
T-11	0.026	0.089	0.082	0.046	0.008	0.014	0.014	0.016	0.028		0.050
T-14	0.012	0.016	0.016	0.016	0.016	0.014	0.014	0.015	0.014	0.022	0.020
T-17	0.003	0.009	0.016	0.009	0.011	0.010	0.008	0.008	0.010	0.010	0.007
T-18	0.002	0.002	0.002	0.003	0.003	0.003	0.004	0.005	**0.000**	0.003	0.003
T-20	0.002	0.006	0.004	0.004	0.004	0.004	0.005	0.004	0.003	0.005	0.004
T-21	0.004	0.003	0.002	0.002	**0.001**	**0.002**	0.003	0.003	0.003		0.006
T-22	0.002	0.094	0.166	0.123	0.081	0.008	0.099	0.136	0.153		0.040
T-25	**0.000**	0.015	0.026	0.031	0.026	0.036	0.029	0.051	0.07		0.037
T-26	**0.001**	0.009	0.012	0.010	0.007	0.006	0.006	0.018	0.023		0.010
T-28	**0.001**	0.002	0.019	0.010	0.004	0.005	0.003	0.010	0.013		0.007
T-29		0.010	0.009	0.010	0.009	0.010	0.004	0.006	0.009		0.005
T-30		0.010	0.014	0.017	0.01	0.019	0.036	0.033	0.036		0.025
T-31		0.008	0.011	0.009	0.007	0.009	0.014	0.015	0.012		0.005
T-32		0.059	0.086	0.077	0.054	0.07	0.074	0.081	0.083		0.040
T-33		0.026	0.058	0.013	0.007	0.012	0.005	0.029	0.039		0.016
T-34		0.017	0.014	0.007	0.009	0.008	0.008	0.013	0.016		0.013

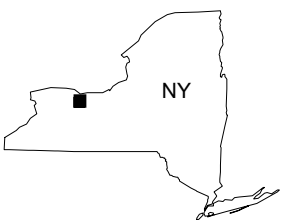
Notes:
1. NR = Not able to get a reading
2. Values in bold represent readings below the 0.002 inches of water column design criteria.
3. T-2, T-8, T-9, T-10, T-12, T-13, T-15, T-16, T-19, T-23, T-24, and T-27 were decommissioned in 2014 and 2015.

TABLE VI
SSD SYSTEM FAN VACUUM READINGS
FORMER XEROX B801 FACILITY
HENRIETTA, NEW YORK

		10/21/2014	9/3/2015	9/8/2016	9/27/2017	10/10/2018	11/19/2018	9/27/2019
Suction Point Location ID	**Fan System**	**Vacuum Measurement (in. w.c.)**	**Vacuum Measurement (in. w.c.)**	**Vacuum Measurement (in. w.c.)**	**Vacuum Measurement (in. w.c.)**	**Vacuum Measurement (in. w.c.)**	**Vacuum Measurement (in. w.c.)**	**Vacuum Measurement (in. w.c.)**
S-1	F-1	23.0	24.0	24.0	25.0	24.0		25.0
S-2		23.0	23.0	24.0	25.0	24.0		25.0
S-3		22.0	23.0	23.0	25.0	24.0		24.0
S-4	F-2	40.0	40.0	40.0	40.0	40.0		40.0
S-5		37.0	37.0	36.0	36.0	36.0		36.0
S-6	F-3	>2.0	>2.0	>2.0	>2.0	>2.0	>2.0	1.1
S-7		0.86	0.96	0.72	1.00	1.00	0.95	0.24
S-8		0.65	0.75	0.75	2.00	2.00	1.60	1.99
S-9	F-4	0.60	0.66	0.60	0.54	0.64		0.84
S-10		0.75	0.80	0.75	0.65	0.80		1.00
S-11	F-5	0.16	0.15	0.18	0.18	0.19		0.20
S-12		0.25	0.25	0.25	0.25	0.25		0.25
S-13	F-6	10.0	10.0	9.0	10.0	11.0		9.0
S-14		9.0	9.5	9.0	10.0	10.0		8.0
S-15	F-7	10.0	9.0	10.0	10.0	12.0		10.0
S-16		9.0	9.0	10.0	10.0	10.5		9.0
S-17		8.0	8.5	9.0	10.0	10.0		8.5

FIGURES







MAP SOURCE: USGS
USGS QUAD: PITTSFORD, NEW YORK
SITE COORDINATES: 43°5'25"N, 77°35'28"W

HALEY ALDRICH

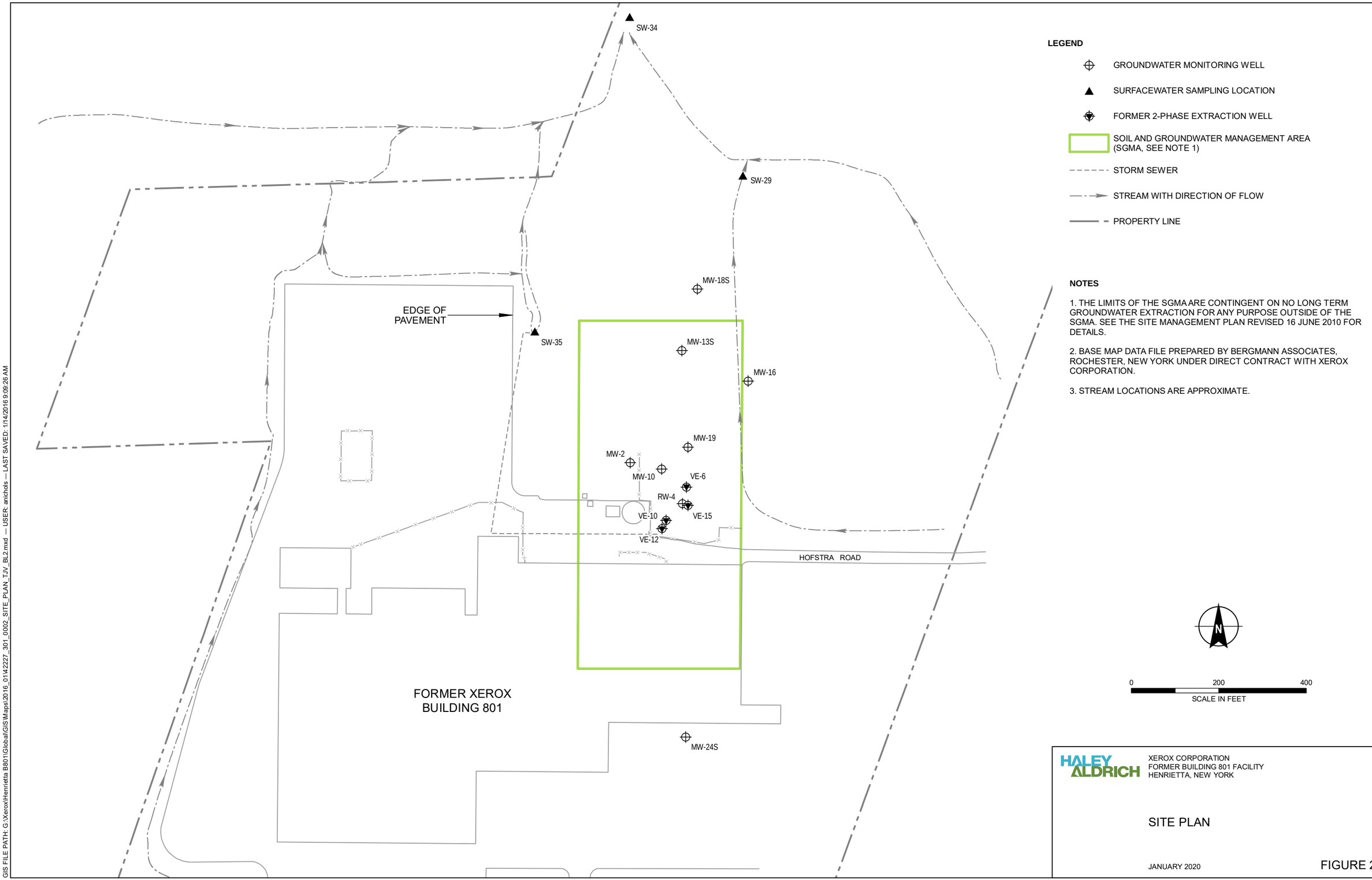
XEROX CORPORATION
FORMER BUILDING 801 FACILITY
HENRIETTA, NEW YORK

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
JANUARY 2020

FIGURE 1

GIS FILE PATH: G:\Xerox\Henrietta B801\Global\GIS\Maps\2016_01142227_301_0001_PROJECT_LOCUS_TJV_AP1.mxd — USER: anichols — LAST SAVED: 1/13/2016 9:19:23 AM



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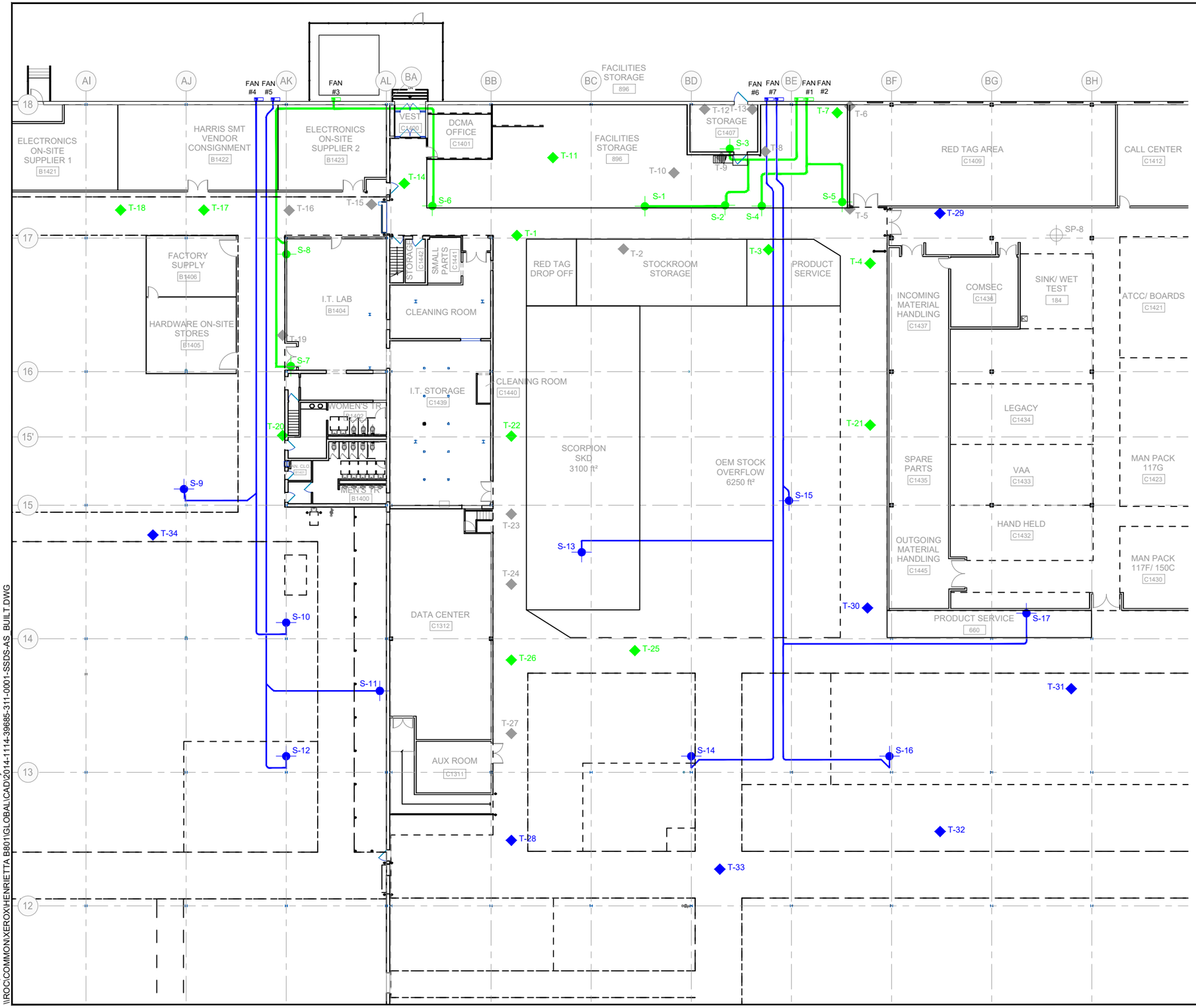
HALEY ALDRICH

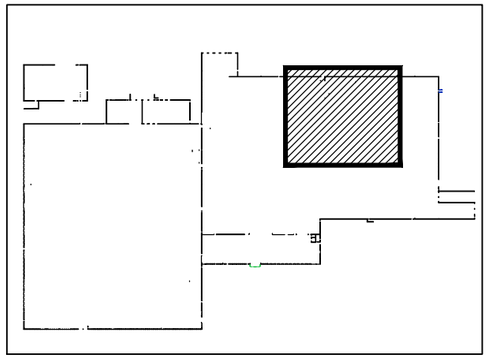
XEROX CORPORATION
FORMER BUILDING 801 FACILITY
HENRIETTA, NEW YORK

SITE PLAN

JANUARY 2020

FIGURE 2





SITE KEY
NOT TO SCALE

LEGEND

- SSDS PIPING SYSTEM (XEROX)
- SSDS PIPING SYSTEM (HARRIS)
- T-2 VACUUM TEST LOCATION (XEROX)
- T-29 VACUUM TEST LOCATION (HARRIS)
- S-1 SUCTION LOCATION (XEROX)
- S-10 SUCTION LOCATION (HARRIS)
- DECOMMISSIONED LOCATIONS

NOTES

1. BASE PLAN PROVIDED BY HARRIS CORPORATION, 27 OCTOBER 2014.
2. SSDS PIPING, SUCTION, AND VACUUM TEST LOCATIONS FOR THE HARRIS SYSTEM WERE PROVIDED BY ERM, 31 MARCH 2011.

N

0 30 60
SCALE IN FEET

HALEY ALDRICH

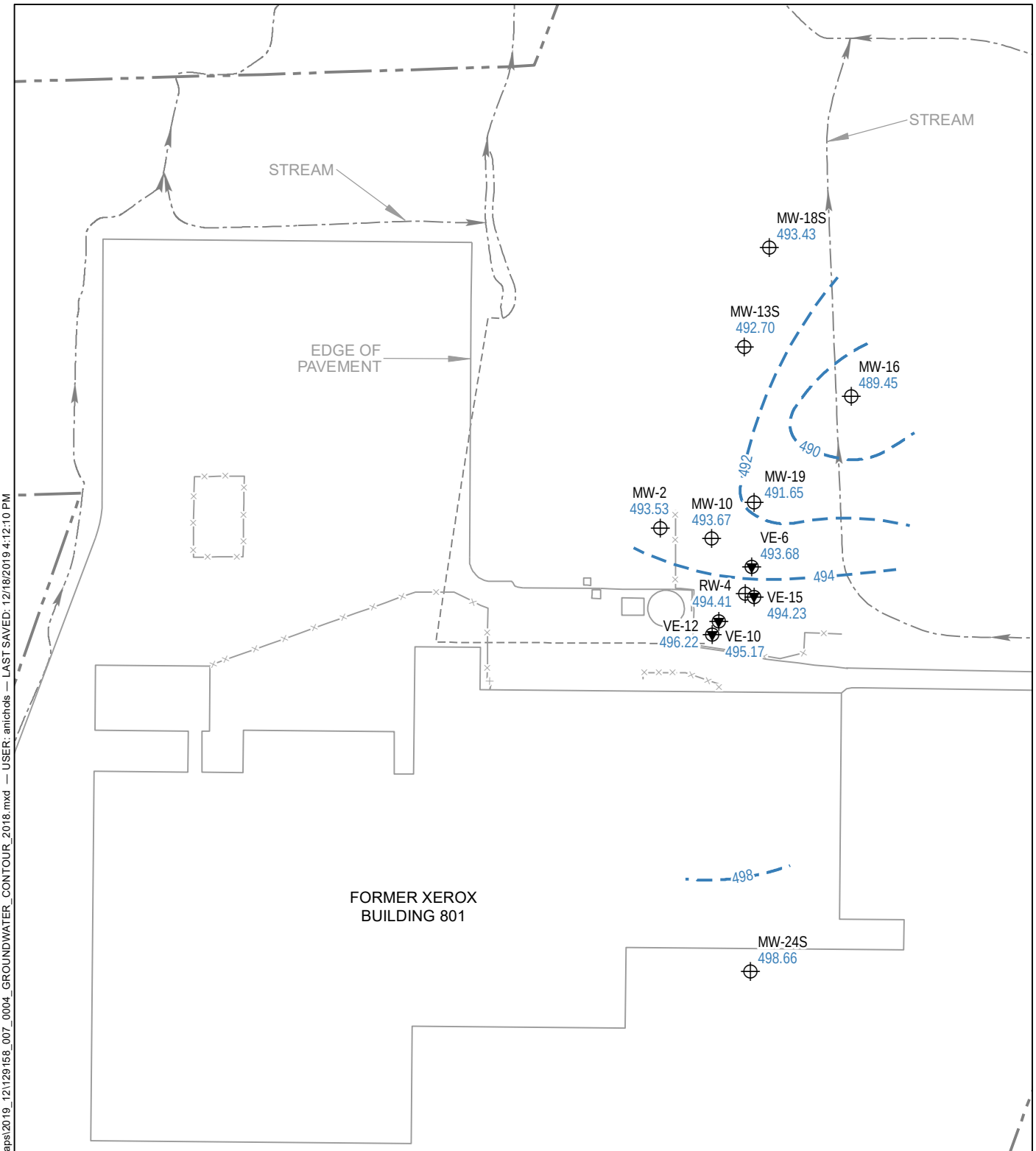
XEROX CORPORATION
FORMER BUILDING 801
HENRIETTA, NEW YORK

SUB-SLAB DEPRESSURIZATION SYSTEM PLAN - AS BUILT

SCALE: AS SHOWN
FEBRUARY 2020

FIGURE 3

LIBBY, PAT
\\ROCCOMMON\XEROX\HENRIETTA B801\GLOBAL\CAD\2014-114-39685-311-0001-SSDS-AS_BUILT.DWG
Printed: 1/13/2016 10:27 AM Layout: FIG 3



LEGEND

- GROUNDWATER MONITORING WELL WITH GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- FORMER 2-PHASE EXTRACTION WELL AND GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- INFERRED GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)

NOTES

1. GROUNDWATER LEVELS MEASURED IN AUGUST 2019.
2. GROUNDWATER ELEVATION DATA FROM WELL VE-10 WAS NOT USED TO GENERATE GROUNDWATER CONTOURS.

N

0 100 200

SCALE IN FEET

HALEY ALDRICH

XEROX CORPORATION
FORMER BUILDING 801 FACILITY
HENRIETTA, NEW YORK

UPPER AQUIFER GROUNDWATER CONTOURS THIRD QUARTER - 2019

DECEMBER 2019

FIGURE 4

GIS FILE PATH: G:\Xerox\Henrietta B801\Global\GIS\Maps\2019_12\129158_007_0004_GROUNDWATER_CONTOUR_2018.mxd — USER: anichols — LAST SAVED: 12/18/2019 4:12:10 PM

APPENDIX A

Annual Engineering and Institutional Controls Certification Form

HALEY ALDRICH

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **828069**

Site Name Xerox - Henrietta Facility

Site Address: 1350 Jefferson Road Zip Code: 14623
City/Town: Henrietta
County: Monroe
Site Acreage: ~~2.000~~ 85.98

Reporting Period: ~~January 15, 2019 to January 15, 2020~~
January 1, 2019 to December 31, 2019

	YES	NO
1. Is the information above correct?	☐	☑
If NO, include handwritten above or on a separate sheet. Site acreage and PRR period has been corrected above.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☑
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☑

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☑	☐
7. Are all ICs/ECs in place and functioning as designed?	☑	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 828069 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
162-08.1-2	Harris Corporation Remedial Party - Xerox Corporation	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

Continued groundwater monitoring;

Establishment of a soil and groundwater management area;

A deed restriction which restricts site use;

Compliance with the site management plan dated 6/16/10 and revised on 7/30/15 which addresses continued management of residual contamination in the soil and groundwater management area, to address continued O&M of all engineering controls, and provide for periodic certification.

162.07-1-3	Harris Corporation Remedial Party - Xerox Corporation	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

Continued groundwater monitoring;

Continued operation and monitoring of the sub-slab depressurization system;

Establishment of a soil and groundwater management area;

A deed restriction which restricts site use;

Compliance with the site management plan dated 6/16/10 and revised on 7/30/15 which addresses continued management of residual contamination in the soil and groundwater management area, to address continued O&M of all engineering controls, and provide for periodic certification.

162.08-1-1	Harris Corporation Remedial Party - Xerox Corporation	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

Continued groundwater monitoring;

Establishment of a soil and groundwater management area;

A deed restriction which restricts site use;

Compliance with the site management plan dated 6/16/10 and revised on 7/30/15 which addresses continued management of residual contamination in the soil and groundwater management area, to address continued O&M of all engineering controls, and provide for periodic certification.

162.08-1-30	Harris Corporation Remedial Party - Xerox Corporation	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan

Continued groundwater monitoring;

Continued operation and monitoring of the sub-slab depressurization system;

A deed restriction which restricts site use;

Compliance with the site management plan dated 6/16/10 and revised on 7/30/15 which addresses

continued management of residual contamination in the soil and groundwater management area, to address continued O&M of all engineering controls, and provide for periodic certification.

162.08-1-31 Harris Corporation

Remedial Party - Xerox Corporation

Landuse Restriction
Ground Water Use Restriction
Monitoring Plan
Site Management Plan

Continued groundwater monitoring;

A deed restriction which restricts site use;

Compliance with the site management plan dated 6/16/10 and revised on 7/30/15 which addresses continued management of residual contamination in the soil and groundwater management area, to address continued O&M of all engineering controls, and provide for periodic certification.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
162.07-1-3	Vapor Mitigation
162.08-1-30	Vapor Mitigation

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☑	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

There is no financial assurance requirement for this site.

YES	NO
☑	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 828069

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Marcus Lathrop (print name) at 800 Phillips Rd, Webster NY 14580 (print business address)

am certifying as Manager, Assessments + Environmental Ops. (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

2/13/20
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Janice Szucs (print name) at Haley & Aldrich of New York, 200 Town Centre Dr., Suite 2, Rochester, NY 14623 (print business address),

am certifying as a Professional Engineer for the Remedial Party (Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

2/14/20
Date

APPENDIX B

Laboratory Analytical Data Report

HALEY ALDRICH

September 13, 2019 Service Request No:R1908160

Missy Bessey
Xerox Corporation USA
800 Phillips Road
Bldg #205-99F
Webster, NY 14580

Laboratory Results for: Bldg 801 Annual Wells

Dear Missy,

Enclosed are the results of the sample(s) submitted to our laboratory August 26, 2019
For your reference, these analyses have been assigned our service request number **R1908160.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental



Janice Jaeger
Project Manager

CC: Janice Szucs

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells
Sample Matrix: Water

Service Request: R1908160
Date Received: 08/26/2019 - 09/10/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Seventeen water samples were received for analysis at ALS Environmental on 08/26/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.
Sampling was performed by ALS personnel in accordance with ALS Field Sampling SOPs or by client specifications.
When the PDB for MW-16 was retrieved the PDB was flat and could not be sampled. A new PDB was placed in the well and was sampled 9/10/19.

Volatiles by GC/MS:

Method 8260C, 09/06/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.
Method 8260C, 09/09/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 09/09/2019: The Method Blank contained a low level of the following analytes above the Reporting Limit: acetone. All associated sample results less than ten times the level found in the Method Blank are flagged. The samples were not reprepared/reanalyzed because of contaminated vials.

Approved by _____ Date 09/13/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: VE-6			Lab ID: R1908160-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Chloroethane	190			130	ug/L	8260C
1,1-Dichloroethane	300			130	ug/L	8260C
1,1-Dichloroethene	130			130	ug/L	8260C
cis-1,2-Dichloroethene	3900			130	ug/L	8260C
1,1,1-Trichloroethane	150			130	ug/L	8260C
Vinyl Chloride	1300			130	ug/L	8260C

CLIENT ID: VE-10			Lab ID: R1908160-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Chloroethane	1900	D		100	ug/L	8260C
1,1-Dichloroethane	260			50	ug/L	8260C
cis-1,2-Dichloroethene	72			50	ug/L	8260C
trans-1,2-Dichloroethene	76			50	ug/L	8260C
Methylene Chloride	55			50	ug/L	8260C
Vinyl Chloride	2000			50	ug/L	8260C

CLIENT ID: VE-12			Lab ID: R1908160-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	930			500	ug/L	8260C
Chloroethane	7800			250	ug/L	8260C
1,1-Dichloroethane	1700			250	ug/L	8260C
cis-1,2-Dichloroethene	1100			250	ug/L	8260C
Toluene	680			250	ug/L	8260C
1,1,1-Trichloroethane	440			250	ug/L	8260C
Vinyl Chloride	5800			250	ug/L	8260C

CLIENT ID: VE-15			Lab ID: R1908160-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Chloroethane	360			13	ug/L	8260C
1,1-Dichloroethane	170			13	ug/L	8260C
trans-1,2-Dichloroethene	21			13	ug/L	8260C

CLIENT ID: RW-4			Lab ID: R1908160-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,1-Dichloroethane	16			5.0	ug/L	8260C
cis-1,2-Dichloroethene	14			5.0	ug/L	8260C
Trichloroethene	7.9			5.0	ug/L	8260C
Vinyl Chloride	9.3			5.0	ug/L	8260C

CLIENT ID: MW-2			Lab ID: R1908160-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	15			10	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-10			Lab ID: R1908160-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,1-Dichloroethane	120			25	ug/L	8260C
cis-1,2-Dichloroethene	690			25	ug/L	8260C
1,1,1-Trichloroethane	39			25	ug/L	8260C
Trichloroethene	72			25	ug/L	8260C
Vinyl Chloride	190			25	ug/L	8260C

CLIENT ID: MW-13S			Lab ID: R1908160-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	11			10	ug/L	8260C

CLIENT ID: MW-18S			Lab ID: R1908160-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	12			10	ug/L	8260C

CLIENT ID: MW-19			Lab ID: R1908160-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,1-Dichloroethane	65			13	ug/L	8260C
1,1-Dichloroethene	21			13	ug/L	8260C
cis-1,2-Dichloroethene	370			13	ug/L	8260C
1,1,1-Trichloroethane	22			13	ug/L	8260C
Trichloroethene	220			13	ug/L	8260C
Vinyl Chloride	30			13	ug/L	8260C

CLIENT ID: SW-35			Lab ID: R1908160-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	13			10	ug/L	8260C

CLIENT ID: SW-35 DUP			Lab ID: R1908160-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	10			10	ug/L	8260C

CLIENT ID: Trip Blank			Lab ID: R1908160-018			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Acetone	11			10	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Xerox Corporation USA **Service Request:**R1908160
Project: Bldg 801 Annual Wells

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1908160-001	VE-6	8/26/2019	1005
R1908160-002	VE-10	8/26/2019	1048
R1908160-003	VE-12	8/26/2019	1100
R1908160-004	VE-15	8/26/2019	1020
R1908160-005	RW-4	8/26/2019	1035
R1908160-006	MW-2	8/26/2019	0945
R1908160-007	MW-10	8/26/2019	1110
R1908160-008	MW-13S	8/26/2019	1120
R1908160-009	MW-16	9/10/2019	1210
R1908160-010	MW-18S	8/26/2019	1145
R1908160-011	MW-19	8/26/2019	1205
R1908160-012	MW-24S	8/26/2019	0920
R1908160-014	SW-34	8/26/2019	1300
R1908160-015	SW-35	8/26/2019	1330
R1908160-016	SW-35 DUP	8/26/2019	1330
R1908160-018	Trip Blank	8/26/2019	0830

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 57436

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name	Project Number
801 Wells	
Project Manager	**Report CC**
Company/Address	
Xerox	
Phone #	**Email**
Sampler's Signature	**Sampler's Printed Name**
Bob Lucian	Bob Lucian

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ○ 8260 ○ 624 ○ CLP | GC/MS SVOAs ○ 8270 ○ 625 | GC VOAs ○ 8021 ○ 601/602 | PESTICIDES ○ 8081 ○ 608 | PCBs ○ 8082 ○ 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below) | REMARKS/ ALTERNATE DESCRIPTION

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
MW-24S	-012	8/29/19	0920	W		X							
MW-2	-006		0945										
VE-6	-001		1005										
VE-15	-004		1020										
RW-4	-005		1035										
VE-10	-002		1048										
VE-12	-003		1100										
MW-10	-007		1110										
MW-13S	-008		1120										
MW-18S	-010		1145										
MW-19	-011		1205										

SPECIAL INSTRUCTIONS/COMMENTS
Metals
Samples collected 8/26/19 JMW 8/28/19

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Bob Lucian	Signature: John Ortel	Signature	Signature	Signature	Signature
Printed Name: Bob Lucian	Printed Name: Daniel Ward	Printed Name	Printed Name	Printed Name	
Firm: ALS	Firm: ALS	Firm	Firm	Firm	
Date/Time: 8/29/19	Date/Time: 8/26/19 / 1410	Date/Time	Date/Time	Date/Time	

R1908160 5
Xerox Corporation USA
Bldg 801 Annual Wells

Distribution: White - Lab Copy; Yellow - Return to Originator

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 57435

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Project Name: 801 WELLS	Project Number:
Project Manager:	Report CC:
Company/Address: XEROX	
Phone #:	Email:
Sampler's Signature:	Sampler's Printed Name: BOB LUCIAN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
SW-34	-014	8/29/19	1300	W									
SW-35	-015 | -016		1330										DUP
T.B.	-018		0830	↓									
SW-29			—	—									DUP

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
_____ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: BOB LUCIAN	Printed Name: DANIEL NAGLE	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: AGS	Firm: ALS	Firm:	Firm:	Firm:	Firm:
Date/Time: 8/29/19	Date/Time: 8/30/19 1400	Date/Time:	Date/Time:	Date/Time:	Date/Time:

R1908160 5
Xerox Corporation USA
Bldg 801 Annual Wells

Distribution: White - Lab Copy; Yellow - Return to Originator

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R1908160 5
Xerox Corporation USA
Bldg 801 Annual Wells

Cooler Receipt and Preservation Check Form

Project/Client Xerox Folder Number

Cooler received on 8/20/19 by: DH

COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **Wet Ice** **Dry Ice** **Gel packs** present?	Y (N)

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	(Y) (N) NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 8/20/19 Time: 1415 ID: IR#7 (IR#10) From: Temp Blank Sample Bottle

Observed Temp (°C)	24.4						
Correction Factor (°C)	+0.0						
Corrected Temp (°C)	24.4						
Temp from:Type of bottle	40mL vial						
Within 0-6°C?	Y (N)	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by DH on 8/20/19 at 1415
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 8/21/19 Time: 1110 by: [illegible]

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES (NO) dlut/tsmi
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**	411810					

Bottle lot numbers: 9-093-001

Explain all Discrepancies/ Other Comments:

Headspace: VE-10 (3) RW-10 (3)
VE-6 (3) MW-13S (1)
VE15 (3) MW-19 (1)
RW-4 (3) MW-24S (3)
MW-2 (3)

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
(ALS)	REV

Labels secondary reviewed by: [illegible]
PC Secondary Review: MW 8/28/19

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 58571

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name	Project Number
801 Annual Wells	
Project Manager	**Report CC**
Company/Address	
Xerox	
Phone #	**Email**
Sampler's Signature	**Sampler's Printed Name**
	Bob Curran

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
MW-16	-009	9/10/19	12:10	W			X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
_____ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____Yes _____No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name Bob Curran	Printed Name Daniel Ward	Printed Name	Printed Name	Printed Name	Printed Name
Firm ALS	Firm ALS	Firm	Firm	Firm	
Date/Time 9/10/19	Date/Time 9/10/19 1430	Date/Time	Date/Time	Date/Time	

Distribution: White - Lab Copy; Yellow - Return to Originator

R1908160 5
Xerox Corporation USA
Bldg 801 Annual Wells

R190[illegible]

Cooler Receipt and Preservation Check Form

R1908160 5
Xerox Corporation USA
Bldg 901 Annual Wells

Project/Client Xerox Folder Number

Cooler received on 9/10/19 by: dw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y N
2	**Custody papers** properly completed (ink, signed)?	Y N
3	Did all bottles arrive in good **condition** (unbroken)?	Y N
4	Circle: **Wet Ice Dry Ice Gel packs** present?	Y N

5a	**Perchlorate** samples have required headspace?	Y N NA
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N NA dw 9/10/19
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set NA

8. Temperature Readings Date: 9/10/19 Time: 1440 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	3.2						
Correction Factor (°C)	+0.0						
Corrected Temp (°C)	3.2						
Temp from:Type of bottle							
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-107 by dw on 9/10/19 at 1440
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 9/10/19 Time: 2215 by: dw

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	411810					

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 9-093002

Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: dw
PC Secondary Review: JMM 9/13/19 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

FIELD MONITORING REPORT

PROJECT Xenox 801 LAB ID

SAMPLE POINT ID MW-24S

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 0920 SWL 4.78

Recharge Time Recharge Rate

Appearance Clear

Weather Conditions Sunny 64 48 hr. P. Cloudy 70

Sampling Technician (Print) Bob Urban Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID

SAMPLE POINT ID MW-2

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 0945 SWL 4.96

Recharge Time Recharge Rate

Appearance Clear

Weather Conditions Sunny 65 48 hr. P. Cloudy 70

Sampling Technician (Print) Bob Urban Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ___/___/___ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID

SAMPLE POINT ID VE-6

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1005 SWL 5.25

Recharge Time Recharge Rate

Appearance CLEAR

Weather Conditions SUNNY 65 48 hr. P. CLOUDY 70

Sampling Technician (Print) BOB CUBAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT XEROX 801 WELLS LAB ID _____

SAMPLE POINT ID VE-15

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1020 SWL 5.50

Recharge Time — Recharge Rate —

Appearance CLEAR

Weather Conditions SUNNY 65 48 hr. P. CLOUDY 70

Sampling Technician (Print) BOB CUBAN Signature [signature]

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID

SAMPLE POINT ID RW-4

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1035 SWL 4.43

Recharge Time Recharge Rate

Appearance CLEAR

Weather Conditions SUNNY 70 48 hr. PT CLOUDY 70

Sampling Technician (Print) BOB CRAIN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ___/___/___ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID

SAMPLE POINT ID VE-10

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1048 SWL 4.87

Recharge Time Recharge Rate

Appearance CLEAR

Weather Conditions SUNNY 70 48 hr. P. CLOUDY 70

Sampling Technician (Print) BOB URBAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID

SAMPLE POINT ID VE-12

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1100 SWL 4.87

Recharge Time Recharge Rate

Appearance Clear

Weather Conditions Sunny 70 48 hr. R Cloudy 75

Sampling Technician (Print) Bob Urban Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID

SAMPLE POINT ID MW-10

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1110 SWL 4.78

Recharge Time Recharge Rate

Appearance Clear

Weather Conditions Sunny 72 48 hr. P. Cloudy 70

Sampling Technician (Print) Bob Urban Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xenox 801 LAB ID

SAMPLE POINT ID MW-13S

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1120 SWL 5.65

Recharge Time ✓ Recharge Rate ✓

Appearance CLEAR

Weather Conditions Sunny 72 48 hr. P. Cloudy 70

Sampling Technician (Print) Bob Logan Signature Bob Logan

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ___/___/___ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID

SAMPLE POINT ID MW-18s

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1145 SWL 5.38

Recharge Time Recharge Rate

Appearance CLEAR

Weather Conditions SUNNY 72 48 hr. PT CLOUDY 70

Sampling Technician (Print) BOB URBAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xenox 801 LAB ID

SAMPLE POINT ID MW-19

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 8/26/19 Time 1205 SWL 6.88

Recharge Time Recharge Rate

Appearance CLEAR

Weather Conditions SUNNY 75 48 hr. PtCloudy 70

Sampling Technician (Print) BOB LINEHAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ___/___/___ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID

SAMPLE POINT ID SW-~~35~~34 RW

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method GRAB

Date 8/26/19 Time 1300 SWL

Recharge Time Recharge Rate

Appearance LT TAN TINT

Weather Conditions SUNNY 75 48 hr. P. CLOUDY 70

Sampling Technician (Print) BOB URBAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2	
MYRON	pH	unit	7.96	7.95	
	Conductivity	µmhos/cm	1798	1797	
↓	Temperature	Degrees Celsius	~~68.1~~	68.2	20.3/20.2

Calibration Date/Time 8/26/19 0900 pH 7.00 11.00 10.00 SC 1413 Ser 1413

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xenox 801 LAB ID DUP

SAMPLE POINT ID SW-35

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ ~~Volume Purged gal.~~ _____ ~~# casings~~ _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method GRAB

Date 8/26/19 Time 1330 SWL ✓

Recharge Time ✓ Recharge Rate ✓

Appearance CLEAR

Weather Conditions SUNNY 75 48 hr. P. CLOUDY 70

Sampling Technician (Print) BOB URBAN Signature Bob Urban

Meter	Parameter	Unit	Replicate 1	Replicate 2
MYRON	pH	unit	7.50	7.50
↓	Conductivity	µmhos/cm	2014	2012
	Temperature	Degrees Celsius	20.4	20.5

Calibration Date/Time 8/26/19 0900

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xerox 801 LAB ID _____

SAMPLE POINT ID SW-29

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____ _____

SAMPLING INFORMATION

Sample Method _____

Date _____ Time _____ SWL _____

Recharge Time _____ Recharge Rate _____

Appearance _____

Weather Conditions _____ 48 hr. _____

Sampling Technician (Print) _____ Signature _____

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

DRY NO SAMPLE

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xenox 801 Annual LAB ID

SAMPLE POINT ID MW-16

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method PDB

Date 9/10/19 Time 1210 SWL 9.38

Recharge Time Recharge Rate

Appearance Clear

Weather Conditions Sunny 70 48 hr. P. Cloudy 70

Sampling Technician (Print) Bob Cuban Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells/

Service Request: R1908160

Sample Name: VE-6
Lab Code: R1908160-001
Sample Matrix: Water

Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: VE-10
Lab Code: R1908160-002
Sample Matrix: Water

Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: VE-10
Lab Code: R1908160-002.R01
Sample Matrix: Water

Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: VE-12
Lab Code: R1908160-003
Sample Matrix: Water

Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

Sample Name: VE-15
Lab Code: R1908160-004
Sample Matrix: Water

Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells/
Service Request: R1908160

Sample Name: RW-4
Lab Code: R1908160-005
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-2
Lab Code: R1908160-006
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-10
Lab Code: R1908160-007
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-13S
Lab Code: R1908160-008
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-16
Lab Code: R1908160-009
Sample Matrix: Water
Date Collected: 09/10/19
Date Received: 09/10/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells/
Service Request: R1908160

Sample Name: MW-18S
Lab Code: R1908160-010
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-19
Lab Code: R1908160-011
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: MW-24S
Lab Code: R1908160-012
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: SW-34
Lab Code: R1908160-014
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name: SW-35
Lab Code: R1908160-015
Sample Matrix: Water
Date Collected: 08/26/19
Date Received: 08/26/19

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells/		

Sample Name:	SW-35 DUP	**Date Collected:**	08/26/19
Lab Code:	R1908160-016	**Date Received:**	08/26/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	Trip Blank	**Date Collected:**	08/26/19
Lab Code:	R1908160-018	**Date Received:**	08/26/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 10:05
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	VE-6	**Units:**	ug/L
Lab Code:	R1908160-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Acetone	250	U	250	25	09/09/19 16:03	
Benzene	130	U	130	25	09/09/19 16:03	
Bromodichloromethane	130	U	130	25	09/09/19 16:03	
Bromoform	130	U	130	25	09/09/19 16:03	
Bromomethane	130	U	130	25	09/09/19 16:03	
2-Butanone (MEK)	250	U	250	25	09/09/19 16:03	
Carbon Disulfide	250	U	250	25	09/09/19 16:03	
Carbon Tetrachloride	130	U	130	25	09/09/19 16:03	
Chlorobenzene	130	U	130	25	09/09/19 16:03	
Chloroethane	**190**		130	25	09/09/19 16:03	
Chloroform	130	U	130	25	09/09/19 16:03	
Chloromethane	130	U	130	25	09/09/19 16:03	
Dibromochloromethane	130	U	130	25	09/09/19 16:03	
1,1-Dichloroethane	**300**		130	25	09/09/19 16:03	
1,2-Dichloroethane	130	U	130	25	09/09/19 16:03	
1,1-Dichloroethene	**130**		130	25	09/09/19 16:03	
cis-1,2-Dichloroethene	**3900**		130	25	09/09/19 16:03	
trans-1,2-Dichloroethene	130	U	130	25	09/09/19 16:03	
1,2-Dichloropropane	130	U	130	25	09/09/19 16:03	
cis-1,3-Dichloropropene	130	U	130	25	09/09/19 16:03	
trans-1,3-Dichloropropene	130	U	130	25	09/09/19 16:03	
Ethylbenzene	130	U	130	25	09/09/19 16:03	
2-Hexanone	250	U	250	25	09/09/19 16:03	
Methylene Chloride	130	U	130	25	09/09/19 16:03	
4-Methyl-2-pentanone (MIBK)	250	U	250	25	09/09/19 16:03	
Styrene	130	U	130	25	09/09/19 16:03	
1,1,2,2-Tetrachloroethane	130	U	130	25	09/09/19 16:03	
Tetrachloroethene	130	U	130	25	09/09/19 16:03	
Toluene	130	U	130	25	09/09/19 16:03	
1,1,1-Trichloroethane	**150**		130	25	09/09/19 16:03	
1,1,2-Trichloroethane	130	U	130	25	09/09/19 16:03	
Trichloroethene	130	U	130	25	09/09/19 16:03	
Vinyl Chloride	**1300**		130	25	09/09/19 16:03	
o-Xylene	130	U	130	25	09/09/19 16:03	
m,p-Xylenes	130	U	130	25	09/09/19 16:03	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 10:05
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	VE-6	**Units:**	ug/L
Lab Code:	R1908160-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/09/19 16:03	
Toluene-d8	100	87 - 121	09/09/19 16:03	
Dibromofluoromethane	103	89 - 119	09/09/19 16:03	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 10:48
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	VE-10	**Units:**	ug/L
Lab Code:	R1908160-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Acetone	100	U	100	10	09/06/19 16:00	
Benzene	50	U	50	10	09/06/19 16:00	
Bromodichloromethane	50	U	50	10	09/06/19 16:00	
Bromoform	50	U	50	10	09/06/19 16:00	
Bromomethane	50	U	50	10	09/06/19 16:00	
2-Butanone (MEK)	100	U	100	10	09/06/19 16:00	
Carbon Disulfide	100	U	100	10	09/06/19 16:00	
Carbon Tetrachloride	50	U	50	10	09/06/19 16:00	
Chlorobenzene	50	U	50	10	09/06/19 16:00	
Chloroethane	**1900**	**D**	100	20	09/06/19 20:44	
Chloroform	50	U	50	10	09/06/19 16:00	
Chloromethane	50	U	50	10	09/06/19 16:00	
Dibromochloromethane	50	U	50	10	09/06/19 16:00	
1,1-Dichloroethane	**260**		50	10	09/06/19 16:00	
1,2-Dichloroethane	50	U	50	10	09/06/19 16:00	
1,1-Dichloroethene	50	U	50	10	09/06/19 16:00	
cis-1,2-Dichloroethene	**72**		50	10	09/06/19 16:00	
trans-1,2-Dichloroethene	**76**		50	10	09/06/19 16:00	
1,2-Dichloropropane	50	U	50	10	09/06/19 16:00	
cis-1,3-Dichloropropene	50	U	50	10	09/06/19 16:00	
trans-1,3-Dichloropropene	50	U	50	10	09/06/19 16:00	
Ethylbenzene	50	U	50	10	09/06/19 16:00	
2-Hexanone	100	U	100	10	09/06/19 16:00	
Methylene Chloride	**55**		50	10	09/06/19 16:00	
4-Methyl-2-pentanone (MIBK)	100	U	100	10	09/06/19 16:00	
Styrene	50	U	50	10	09/06/19 16:00	
1,1,2,2-Tetrachloroethane	50	U	50	10	09/06/19 16:00	
Tetrachloroethene	50	U	50	10	09/06/19 16:00	
Toluene	50	U	50	10	09/06/19 16:00	
1,1,1-Trichloroethane	50	U	50	10	09/06/19 16:00	
1,1,2-Trichloroethane	50	U	50	10	09/06/19 16:00	
Trichloroethene	50	U	50	10	09/06/19 16:00	
Vinyl Chloride	**2000**		50	10	09/06/19 16:00	
o-Xylene	50	U	50	10	09/06/19 16:00	
m,p-Xylenes	50	U	50	10	09/06/19 16:00	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 10:48
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	VE-10	**Units:**	ug/L
Lab Code:	R1908160-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/06/19 16:00	
Toluene-d8	98	87 - 121	09/06/19 16:00	
Dibromofluoromethane	91	89 - 119	09/06/19 16:00	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 11:00
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	VE-12	**Units:**	ug/L
Lab Code:	R1908160-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Acetone	500	U	500	50	09/09/19 15:41	
Benzene	250	U	250	50	09/09/19 15:41	
Bromodichloromethane	250	U	250	50	09/09/19 15:41	
Bromoform	250	U	250	50	09/09/19 15:41	
Bromomethane	250	U	250	50	09/09/19 15:41	
2-Butanone (MEK)	**930**		500	50	09/09/19 15:41	
Carbon Disulfide	500	U	500	50	09/09/19 15:41	
Carbon Tetrachloride	250	U	250	50	09/09/19 15:41	
Chlorobenzene	250	U	250	50	09/09/19 15:41	
Chloroethane	**7800**		250	50	09/09/19 15:41	
Chloroform	250	U	250	50	09/09/19 15:41	
Chloromethane	250	U	250	50	09/09/19 15:41	
Dibromochloromethane	250	U	250	50	09/09/19 15:41	
1,1-Dichloroethane	**1700**		250	50	09/09/19 15:41	
1,2-Dichloroethane	250	U	250	50	09/09/19 15:41	
1,1-Dichloroethene	250	U	250	50	09/09/19 15:41	
cis-1,2-Dichloroethene	**1100**		250	50	09/09/19 15:41	
trans-1,2-Dichloroethene	250	U	250	50	09/09/19 15:41	
1,2-Dichloropropane	250	U	250	50	09/09/19 15:41	
cis-1,3-Dichloropropene	250	U	250	50	09/09/19 15:41	
trans-1,3-Dichloropropene	250	U	250	50	09/09/19 15:41	
Ethylbenzene	250	U	250	50	09/09/19 15:41	
2-Hexanone	500	U	500	50	09/09/19 15:41	
Methylene Chloride	250	U	250	50	09/09/19 15:41	
4-Methyl-2-pentanone (MIBK)	500	U	500	50	09/09/19 15:41	
Styrene	250	U	250	50	09/09/19 15:41	
1,1,2,2-Tetrachloroethane	250	U	250	50	09/09/19 15:41	
Tetrachloroethene	250	U	250	50	09/09/19 15:41	
Toluene	**680**		250	50	09/09/19 15:41	
1,1,1-Trichloroethane	**440**		250	50	09/09/19 15:41	
1,1,2-Trichloroethane	250	U	250	50	09/09/19 15:41	
Trichloroethene	250	U	250	50	09/09/19 15:41	
Vinyl Chloride	**5800**		250	50	09/09/19 15:41	
o-Xylene	250	U	250	50	09/09/19 15:41	
m,p-Xylenes	250	U	250	50	09/09/19 15:41	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 11:00
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	VE-12	**Units:**	ug/L
Lab Code:	R1908160-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/09/19 15:41	
Toluene-d8	101	87 - 121	09/09/19 15:41	
Dibromofluoromethane	104	89 - 119	09/09/19 15:41	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 10:20
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	VE-15	**Units:**	ug/L
Lab Code:	R1908160-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Acetone	25	U	25	2.5	09/06/19 14:54	
Benzene	13	U	13	2.5	09/06/19 14:54	
Bromodichloromethane	13	U	13	2.5	09/06/19 14:54	
Bromoform	13	U	13	2.5	09/06/19 14:54	
Bromomethane	13	U	13	2.5	09/06/19 14:54	
2-Butanone (MEK)	25	U	25	2.5	09/06/19 14:54	
Carbon Disulfide	25	U	25	2.5	09/06/19 14:54	
Carbon Tetrachloride	13	U	13	2.5	09/06/19 14:54	
Chlorobenzene	13	U	13	2.5	09/06/19 14:54	
Chloroethane	**360**		13	2.5	09/06/19 14:54	
Chloroform	13	U	13	2.5	09/06/19 14:54	
Chloromethane	13	U	13	2.5	09/06/19 14:54	
Dibromochloromethane	13	U	13	2.5	09/06/19 14:54	
1,1-Dichloroethane	**170**		13	2.5	09/06/19 14:54	
1,2-Dichloroethane	13	U	13	2.5	09/06/19 14:54	
1,1-Dichloroethene	13	U	13	2.5	09/06/19 14:54	
cis-1,2-Dichloroethene	13	U	13	2.5	09/06/19 14:54	
trans-1,2-Dichloroethene	**21**		13	2.5	09/06/19 14:54	
1,2-Dichloropropane	13	U	13	2.5	09/06/19 14:54	
cis-1,3-Dichloropropene	13	U	13	2.5	09/06/19 14:54	
trans-1,3-Dichloropropene	13	U	13	2.5	09/06/19 14:54	
Ethylbenzene	13	U	13	2.5	09/06/19 14:54	
2-Hexanone	25	U	25	2.5	09/06/19 14:54	
Methylene Chloride	13	U	13	2.5	09/06/19 14:54	
4-Methyl-2-pentanone (MIBK)	25	U	25	2.5	09/06/19 14:54	
Styrene	13	U	13	2.5	09/06/19 14:54	
1,1,2,2-Tetrachloroethane	13	U	13	2.5	09/06/19 14:54	
Tetrachloroethene	13	U	13	2.5	09/06/19 14:54	
Toluene	13	U	13	2.5	09/06/19 14:54	
1,1,1-Trichloroethane	13	U	13	2.5	09/06/19 14:54	
1,1,2-Trichloroethane	13	U	13	2.5	09/06/19 14:54	
Trichloroethene	13	U	13	2.5	09/06/19 14:54	
Vinyl Chloride	13	U	13	2.5	09/06/19 14:54	
o-Xylene	13	U	13	2.5	09/06/19 14:54	
m,p-Xylenes	13	U	13	2.5	09/06/19 14:54	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 10:20
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	VE-15	**Units:**	ug/L
Lab Code:	R1908160-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	09/06/19 14:54	
Toluene-d8	101	87 - 121	09/06/19 14:54	
Dibromofluoromethane	92	89 - 119	09/06/19 14:54	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 10:35
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	RW-4	**Units:**	ug/L
Lab Code:	R1908160-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	09/06/19 17:27	
Benzene	5.0 U	5.0	1	09/06/19 17:27	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 17:27	
Bromoform	5.0 U	5.0	1	09/06/19 17:27	
Bromomethane	5.0 U	5.0	1	09/06/19 17:27	
2-Butanone (MEK)	10 U	10	1	09/06/19 17:27	
Carbon Disulfide	10 U	10	1	09/06/19 17:27	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 17:27	
Chlorobenzene	5.0 U	5.0	1	09/06/19 17:27	
Chloroethane	5.0 U	5.0	1	09/06/19 17:27	
Chloroform	5.0 U	5.0	1	09/06/19 17:27	
Chloromethane	5.0 U	5.0	1	09/06/19 17:27	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 17:27	
1,1-Dichloroethane	**16**	5.0	1	09/06/19 17:27	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 17:27	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 17:27	
cis-1,2-Dichloroethene	**14**	5.0	1	09/06/19 17:27	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 17:27	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 17:27	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 17:27	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 17:27	
Ethylbenzene	5.0 U	5.0	1	09/06/19 17:27	
2-Hexanone	10 U	10	1	09/06/19 17:27	
Methylene Chloride	5.0 U	5.0	1	09/06/19 17:27	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 17:27	
Styrene	5.0 U	5.0	1	09/06/19 17:27	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 17:27	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 17:27	
Toluene	5.0 U	5.0	1	09/06/19 17:27	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 17:27	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 17:27	
Trichloroethene	**7.9**	5.0	1	09/06/19 17:27	
Vinyl Chloride	**9.3**	5.0	1	09/06/19 17:27	
o-Xylene	5.0 U	5.0	1	09/06/19 17:27	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 17:27	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 10:35
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	RW-4	**Units:**	ug/L
Lab Code:	R1908160-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/06/19 17:27	
Toluene-d8	98	87 - 121	09/06/19 17:27	
Dibromofluoromethane	91	89 - 119	09/06/19 17:27	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 09:45
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R1908160-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	**15**	10	1	09/06/19 17:49	
Benzene	5.0 U	5.0	1	09/06/19 17:49	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 17:49	
Bromoform	5.0 U	5.0	1	09/06/19 17:49	
Bromomethane	5.0 U	5.0	1	09/06/19 17:49	
2-Butanone (MEK)	10 U	10	1	09/06/19 17:49	
Carbon Disulfide	10 U	10	1	09/06/19 17:49	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 17:49	
Chlorobenzene	5.0 U	5.0	1	09/06/19 17:49	
Chloroethane	5.0 U	5.0	1	09/06/19 17:49	
Chloroform	5.0 U	5.0	1	09/06/19 17:49	
Chloromethane	5.0 U	5.0	1	09/06/19 17:49	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 17:49	
1,1-Dichloroethane	5.0 U	5.0	1	09/06/19 17:49	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 17:49	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 17:49	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 17:49	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 17:49	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 17:49	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 17:49	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 17:49	
Ethylbenzene	5.0 U	5.0	1	09/06/19 17:49	
2-Hexanone	10 U	10	1	09/06/19 17:49	
Methylene Chloride	5.0 U	5.0	1	09/06/19 17:49	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 17:49	
Styrene	5.0 U	5.0	1	09/06/19 17:49	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 17:49	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 17:49	
Toluene	5.0 U	5.0	1	09/06/19 17:49	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 17:49	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 17:49	
Trichloroethene	5.0 U	5.0	1	09/06/19 17:49	
Vinyl Chloride	5.0 U	5.0	1	09/06/19 17:49	
o-Xylene	5.0 U	5.0	1	09/06/19 17:49	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 17:49	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 09:45
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R1908160-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/06/19 17:49	
Toluene-d8	99	87 - 121	09/06/19 17:49	
Dibromofluoromethane	92	89 - 119	09/06/19 17:49	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 11:10
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R1908160-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	50 U	50	5	09/06/19 15:16	
Benzene	25 U	25	5	09/06/19 15:16	
Bromodichloromethane	25 U	25	5	09/06/19 15:16	
Bromoform	25 U	25	5	09/06/19 15:16	
Bromomethane	25 U	25	5	09/06/19 15:16	
2-Butanone (MEK)	50 U	50	5	09/06/19 15:16	
Carbon Disulfide	50 U	50	5	09/06/19 15:16	
Carbon Tetrachloride	25 U	25	5	09/06/19 15:16	
Chlorobenzene	25 U	25	5	09/06/19 15:16	
Chloroethane	25 U	25	5	09/06/19 15:16	
Chloroform	25 U	25	5	09/06/19 15:16	
Chloromethane	25 U	25	5	09/06/19 15:16	
Dibromochloromethane	25 U	25	5	09/06/19 15:16	
1,1-Dichloroethane	**120**	25	5	09/06/19 15:16	
1,2-Dichloroethane	25 U	25	5	09/06/19 15:16	
1,1-Dichloroethene	25 U	25	5	09/06/19 15:16	
cis-1,2-Dichloroethene	**690**	25	5	09/06/19 15:16	
trans-1,2-Dichloroethene	25 U	25	5	09/06/19 15:16	
1,2-Dichloropropane	25 U	25	5	09/06/19 15:16	
cis-1,3-Dichloropropene	25 U	25	5	09/06/19 15:16	
trans-1,3-Dichloropropene	25 U	25	5	09/06/19 15:16	
Ethylbenzene	25 U	25	5	09/06/19 15:16	
2-Hexanone	50 U	50	5	09/06/19 15:16	
Methylene Chloride	25 U	25	5	09/06/19 15:16	
4-Methyl-2-pentanone (MIBK)	50 U	50	5	09/06/19 15:16	
Styrene	25 U	25	5	09/06/19 15:16	
1,1,2,2-Tetrachloroethane	25 U	25	5	09/06/19 15:16	
Tetrachloroethene	25 U	25	5	09/06/19 15:16	
Toluene	25 U	25	5	09/06/19 15:16	
1,1,1-Trichloroethane	**39**	25	5	09/06/19 15:16	
1,1,2-Trichloroethane	25 U	25	5	09/06/19 15:16	
Trichloroethene	**72**	25	5	09/06/19 15:16	
Vinyl Chloride	**190**	25	5	09/06/19 15:16	
o-Xylene	25 U	25	5	09/06/19 15:16	
m,p-Xylenes	25 U	25	5	09/06/19 15:16	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 11:10
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R1908160-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	09/06/19 15:16	
Toluene-d8	99	87 - 121	09/06/19 15:16	
Dibromofluoromethane	92	89 - 119	09/06/19 15:16	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 11:20
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-13S	**Units:**	ug/L
Lab Code:	R1908160-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	**11**	10	1	09/06/19 18:11	
Benzene	5.0 U	5.0	1	09/06/19 18:11	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 18:11	
Bromoform	5.0 U	5.0	1	09/06/19 18:11	
Bromomethane	5.0 U	5.0	1	09/06/19 18:11	
2-Butanone (MEK)	10 U	10	1	09/06/19 18:11	
Carbon Disulfide	10 U	10	1	09/06/19 18:11	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 18:11	
Chlorobenzene	5.0 U	5.0	1	09/06/19 18:11	
Chloroethane	5.0 U	5.0	1	09/06/19 18:11	
Chloroform	5.0 U	5.0	1	09/06/19 18:11	
Chloromethane	5.0 U	5.0	1	09/06/19 18:11	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 18:11	
1,1-Dichloroethane	5.0 U	5.0	1	09/06/19 18:11	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 18:11	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 18:11	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 18:11	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 18:11	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 18:11	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 18:11	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 18:11	
Ethylbenzene	5.0 U	5.0	1	09/06/19 18:11	
2-Hexanone	10 U	10	1	09/06/19 18:11	
Methylene Chloride	5.0 U	5.0	1	09/06/19 18:11	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 18:11	
Styrene	5.0 U	5.0	1	09/06/19 18:11	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 18:11	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 18:11	
Toluene	5.0 U	5.0	1	09/06/19 18:11	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 18:11	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 18:11	
Trichloroethene	5.0 U	5.0	1	09/06/19 18:11	
Vinyl Chloride	5.0 U	5.0	1	09/06/19 18:11	
o-Xylene	5.0 U	5.0	1	09/06/19 18:11	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 18:11	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 11:20
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-13S	**Units:**	ug/L
Lab Code:	R1908160-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	09/06/19 18:11	
Toluene-d8	98	87 - 121	09/06/19 18:11	
Dibromofluoromethane	90	89 - 119	09/06/19 18:11	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	09/10/19 12:10
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R1908160-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	09/12/19 17:33	
Benzene	5.0 U	5.0	1	09/12/19 17:33	
Bromodichloromethane	5.0 U	5.0	1	09/12/19 17:33	
Bromoform	5.0 U	5.0	1	09/12/19 17:33	
Bromomethane	5.0 U	5.0	1	09/12/19 17:33	
2-Butanone (MEK)	10 U	10	1	09/12/19 17:33	
Carbon Disulfide	10 U	10	1	09/12/19 17:33	
Carbon Tetrachloride	5.0 U	5.0	1	09/12/19 17:33	
Chlorobenzene	5.0 U	5.0	1	09/12/19 17:33	
Chloroethane	5.0 U	5.0	1	09/12/19 17:33	
Chloroform	5.0 U	5.0	1	09/12/19 17:33	
Chloromethane	5.0 U	5.0	1	09/12/19 17:33	
Dibromochloromethane	5.0 U	5.0	1	09/12/19 17:33	
1,1-Dichloroethane	5.0 U	5.0	1	09/12/19 17:33	
1,2-Dichloroethane	5.0 U	5.0	1	09/12/19 17:33	
1,1-Dichloroethene	5.0 U	5.0	1	09/12/19 17:33	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/12/19 17:33	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/12/19 17:33	
1,2-Dichloropropane	5.0 U	5.0	1	09/12/19 17:33	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/12/19 17:33	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/12/19 17:33	
Ethylbenzene	5.0 U	5.0	1	09/12/19 17:33	
2-Hexanone	10 U	10	1	09/12/19 17:33	
Methylene Chloride	5.0 U	5.0	1	09/12/19 17:33	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/12/19 17:33	
Styrene	5.0 U	5.0	1	09/12/19 17:33	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/12/19 17:33	
Tetrachloroethene	5.0 U	5.0	1	09/12/19 17:33	
Toluene	5.0 U	5.0	1	09/12/19 17:33	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/12/19 17:33	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/12/19 17:33	
Trichloroethene	5.0 U	5.0	1	09/12/19 17:33	
Vinyl Chloride	5.0 U	5.0	1	09/12/19 17:33	
o-Xylene	5.0 U	5.0	1	09/12/19 17:33	
m,p-Xylenes	5.0 U	5.0	1	09/12/19 17:33	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	09/10/19 12:10
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-16	**Units:**	ug/L
Lab Code:	R1908160-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/12/19 17:33	
Toluene-d8	99	87 - 121	09/12/19 17:33	
Dibromofluoromethane	95	89 - 119	09/12/19 17:33	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 11:45
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-18S	**Units:**	ug/L
Lab Code:	R1908160-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	**12**	10	1	09/06/19 18:33	
Benzene	5.0 U	5.0	1	09/06/19 18:33	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 18:33	
Bromoform	5.0 U	5.0	1	09/06/19 18:33	
Bromomethane	5.0 U	5.0	1	09/06/19 18:33	
2-Butanone (MEK)	10 U	10	1	09/06/19 18:33	
Carbon Disulfide	10 U	10	1	09/06/19 18:33	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 18:33	
Chlorobenzene	5.0 U	5.0	1	09/06/19 18:33	
Chloroethane	5.0 U	5.0	1	09/06/19 18:33	
Chloroform	5.0 U	5.0	1	09/06/19 18:33	
Chloromethane	5.0 U	5.0	1	09/06/19 18:33	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 18:33	
1,1-Dichloroethane	5.0 U	5.0	1	09/06/19 18:33	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 18:33	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 18:33	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 18:33	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 18:33	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 18:33	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 18:33	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 18:33	
Ethylbenzene	5.0 U	5.0	1	09/06/19 18:33	
2-Hexanone	10 U	10	1	09/06/19 18:33	
Methylene Chloride	5.0 U	5.0	1	09/06/19 18:33	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 18:33	
Styrene	5.0 U	5.0	1	09/06/19 18:33	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 18:33	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 18:33	
Toluene	5.0 U	5.0	1	09/06/19 18:33	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 18:33	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 18:33	
Trichloroethene	5.0 U	5.0	1	09/06/19 18:33	
Vinyl Chloride	5.0 U	5.0	1	09/06/19 18:33	
o-Xylene	5.0 U	5.0	1	09/06/19 18:33	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 18:33	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 11:45
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-18S	**Units:**	ug/L
Lab Code:	R1908160-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/06/19 18:33	
Toluene-d8	100	87 - 121	09/06/19 18:33	
Dibromofluoromethane	89	89 - 119	09/06/19 18:33	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 12:05
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-19	**Units:**	ug/L
Lab Code:	R1908160-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	25 U	25	2.5	09/06/19 20:22	
Benzene	13 U	13	2.5	09/06/19 20:22	
Bromodichloromethane	13 U	13	2.5	09/06/19 20:22	
Bromoform	13 U	13	2.5	09/06/19 20:22	
Bromomethane	13 U	13	2.5	09/06/19 20:22	
2-Butanone (MEK)	25 U	25	2.5	09/06/19 20:22	
Carbon Disulfide	25 U	25	2.5	09/06/19 20:22	
Carbon Tetrachloride	13 U	13	2.5	09/06/19 20:22	
Chlorobenzene	13 U	13	2.5	09/06/19 20:22	
Chloroethane	13 U	13	2.5	09/06/19 20:22	
Chloroform	13 U	13	2.5	09/06/19 20:22	
Chloromethane	13 U	13	2.5	09/06/19 20:22	
Dibromochloromethane	13 U	13	2.5	09/06/19 20:22	
1,1-Dichloroethane	**65**	13	2.5	09/06/19 20:22	
1,2-Dichloroethane	13 U	13	2.5	09/06/19 20:22	
1,1-Dichloroethene	**21**	13	2.5	09/06/19 20:22	
cis-1,2-Dichloroethene	**370**	13	2.5	09/06/19 20:22	
trans-1,2-Dichloroethene	13 U	13	2.5	09/06/19 20:22	
1,2-Dichloropropane	13 U	13	2.5	09/06/19 20:22	
cis-1,3-Dichloropropene	13 U	13	2.5	09/06/19 20:22	
trans-1,3-Dichloropropene	13 U	13	2.5	09/06/19 20:22	
Ethylbenzene	13 U	13	2.5	09/06/19 20:22	
2-Hexanone	25 U	25	2.5	09/06/19 20:22	
Methylene Chloride	13 U	13	2.5	09/06/19 20:22	
4-Methyl-2-pentanone (MIBK)	25 U	25	2.5	09/06/19 20:22	
Styrene	13 U	13	2.5	09/06/19 20:22	
1,1,2,2-Tetrachloroethane	13 U	13	2.5	09/06/19 20:22	
Tetrachloroethene	13 U	13	2.5	09/06/19 20:22	
Toluene	13 U	13	2.5	09/06/19 20:22	
1,1,1-Trichloroethane	**22**	13	2.5	09/06/19 20:22	
1,1,2-Trichloroethane	13 U	13	2.5	09/06/19 20:22	
Trichloroethene	**220**	13	2.5	09/06/19 20:22	
Vinyl Chloride	**30**	13	2.5	09/06/19 20:22	
o-Xylene	13 U	13	2.5	09/06/19 20:22	
m,p-Xylenes	13 U	13	2.5	09/06/19 20:22	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 12:05
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-19	**Units:**	ug/L
Lab Code:	R1908160-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/06/19 20:22	
Toluene-d8	98	87 - 121	09/06/19 20:22	
Dibromofluoromethane	91	89 - 119	09/06/19 20:22	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 09:20
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-24S	**Units:**	ug/L
Lab Code:	R1908160-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	09/06/19 18:54	
Benzene	5.0 U	5.0	1	09/06/19 18:54	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 18:54	
Bromoform	5.0 U	5.0	1	09/06/19 18:54	
Bromomethane	5.0 U	5.0	1	09/06/19 18:54	
2-Butanone (MEK)	10 U	10	1	09/06/19 18:54	
Carbon Disulfide	10 U	10	1	09/06/19 18:54	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 18:54	
Chlorobenzene	5.0 U	5.0	1	09/06/19 18:54	
Chloroethane	5.0 U	5.0	1	09/06/19 18:54	
Chloroform	5.0 U	5.0	1	09/06/19 18:54	
Chloromethane	5.0 U	5.0	1	09/06/19 18:54	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 18:54	
1,1-Dichloroethane	5.0 U	5.0	1	09/06/19 18:54	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 18:54	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 18:54	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 18:54	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 18:54	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 18:54	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 18:54	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 18:54	
Ethylbenzene	5.0 U	5.0	1	09/06/19 18:54	
2-Hexanone	10 U	10	1	09/06/19 18:54	
Methylene Chloride	5.0 U	5.0	1	09/06/19 18:54	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 18:54	
Styrene	5.0 U	5.0	1	09/06/19 18:54	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 18:54	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 18:54	
Toluene	5.0 U	5.0	1	09/06/19 18:54	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 18:54	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 18:54	
Trichloroethene	5.0 U	5.0	1	09/06/19 18:54	
Vinyl Chloride	5.0 U	5.0	1	09/06/19 18:54	
o-Xylene	5.0 U	5.0	1	09/06/19 18:54	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 18:54	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 09:20
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	MW-24S	**Units:**	ug/L
Lab Code:	R1908160-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/06/19 18:54	
Toluene-d8	98	87 - 121	09/06/19 18:54	
Dibromofluoromethane	90	89 - 119	09/06/19 18:54	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 13:00
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	SW-34	**Units:**	ug/L
Lab Code:	R1908160-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	10 U	10	1	09/06/19 19:16	
Benzene	5.0 U	5.0	1	09/06/19 19:16	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 19:16	
Bromoform	5.0 U	5.0	1	09/06/19 19:16	
Bromomethane	5.0 U	5.0	1	09/06/19 19:16	
2-Butanone (MEK)	10 U	10	1	09/06/19 19:16	
Carbon Disulfide	10 U	10	1	09/06/19 19:16	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 19:16	
Chlorobenzene	5.0 U	5.0	1	09/06/19 19:16	
Chloroethane	5.0 U	5.0	1	09/06/19 19:16	
Chloroform	5.0 U	5.0	1	09/06/19 19:16	
Chloromethane	5.0 U	5.0	1	09/06/19 19:16	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 19:16	
1,1-Dichloroethane	5.0 U	5.0	1	09/06/19 19:16	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 19:16	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 19:16	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 19:16	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 19:16	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 19:16	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 19:16	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 19:16	
Ethylbenzene	5.0 U	5.0	1	09/06/19 19:16	
2-Hexanone	10 U	10	1	09/06/19 19:16	
Methylene Chloride	5.0 U	5.0	1	09/06/19 19:16	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 19:16	
Styrene	5.0 U	5.0	1	09/06/19 19:16	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 19:16	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 19:16	
Toluene	5.0 U	5.0	1	09/06/19 19:16	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 19:16	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 19:16	
Trichloroethene	5.0 U	5.0	1	09/06/19 19:16	
Vinyl Chloride	5.0 U	5.0	1	09/06/19 19:16	
o-Xylene	5.0 U	5.0	1	09/06/19 19:16	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 19:16	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 13:00
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	SW-34	**Units:**	ug/L
Lab Code:	R1908160-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	09/06/19 19:16	
Toluene-d8	98	87 - 121	09/06/19 19:16	
Dibromofluoromethane	89	89 - 119	09/06/19 19:16	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 13:30
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	SW-35	**Units:**	ug/L
Lab Code:	R1908160-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	**13**	10	1	09/06/19 19:38	
Benzene	5.0 U	5.0	1	09/06/19 19:38	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 19:38	
Bromoform	5.0 U	5.0	1	09/06/19 19:38	
Bromomethane	5.0 U	5.0	1	09/06/19 19:38	
2-Butanone (MEK)	10 U	10	1	09/06/19 19:38	
Carbon Disulfide	10 U	10	1	09/06/19 19:38	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 19:38	
Chlorobenzene	5.0 U	5.0	1	09/06/19 19:38	
Chloroethane	5.0 U	5.0	1	09/06/19 19:38	
Chloroform	5.0 U	5.0	1	09/06/19 19:38	
Chloromethane	5.0 U	5.0	1	09/06/19 19:38	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 19:38	
1,1-Dichloroethane	5.0 U	5.0	1	09/06/19 19:38	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 19:38	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 19:38	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 19:38	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 19:38	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 19:38	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 19:38	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 19:38	
Ethylbenzene	5.0 U	5.0	1	09/06/19 19:38	
2-Hexanone	10 U	10	1	09/06/19 19:38	
Methylene Chloride	5.0 U	5.0	1	09/06/19 19:38	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 19:38	
Styrene	5.0 U	5.0	1	09/06/19 19:38	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 19:38	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 19:38	
Toluene	5.0 U	5.0	1	09/06/19 19:38	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 19:38	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 19:38	
Trichloroethene	5.0 U	5.0	1	09/06/19 19:38	
Vinyl Chloride	5.0 U	5.0	1	09/06/19 19:38	
o-Xylene	5.0 U	5.0	1	09/06/19 19:38	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 19:38	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 13:30
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	SW-35	**Units:**	ug/L
Lab Code:	R1908160-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	09/06/19 19:38	
Toluene-d8	97	87 - 121	09/06/19 19:38	
Dibromofluoromethane	90	89 - 119	09/06/19 19:38	

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 13:30
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	SW-35 DUP	**Units:**	ug/L
Lab Code:	R1908160-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	**10**	10	1	09/06/19 20:00	
Benzene	5.0 U	5.0	1	09/06/19 20:00	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 20:00	
Bromoform	5.0 U	5.0	1	09/06/19 20:00	
Bromomethane	5.0 U	5.0	1	09/06/19 20:00	
2-Butanone (MEK)	10 U	10	1	09/06/19 20:00	
Carbon Disulfide	10 U	10	1	09/06/19 20:00	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 20:00	
Chlorobenzene	5.0 U	5.0	1	09/06/19 20:00	
Chloroethane	5.0 U	5.0	1	09/06/19 20:00	
Chloroform	5.0 U	5.0	1	09/06/19 20:00	
Chloromethane	5.0 U	5.0	1	09/06/19 20:00	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 20:00	
1,1-Dichloroethane	5.0 U	5.0	1	09/06/19 20:00	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 20:00	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 20:00	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 20:00	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 20:00	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 20:00	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 20:00	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 20:00	
Ethylbenzene	5.0 U	5.0	1	09/06/19 20:00	
2-Hexanone	10 U	10	1	09/06/19 20:00	
Methylene Chloride	5.0 U	5.0	1	09/06/19 20:00	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 20:00	
Styrene	5.0 U	5.0	1	09/06/19 20:00	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 20:00	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 20:00	
Toluene	5.0 U	5.0	1	09/06/19 20:00	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 20:00	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 20:00	
Trichloroethene	5.0 U	5.0	1	09/06/19 20:00	
Vinyl Chloride	5.0 U	5.0	1	09/06/19 20:00	
o-Xylene	5.0 U	5.0	1	09/06/19 20:00	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 20:00	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 13:30
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	SW-35 DUP	**Units:**	ug/L
Lab Code:	R1908160-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/06/19 20:00	
Toluene-d8	97	87 - 121	09/06/19 20:00	
Dibromofluoromethane	91	89 - 119	09/06/19 20:00	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 08:30
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1908160-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	**11**	10	1	09/06/19 14:33	
Benzene	5.0 U	5.0	1	09/06/19 14:33	
Bromodichloromethane	5.0 U	5.0	1	09/06/19 14:33	
Bromoform	5.0 U	5.0	1	09/06/19 14:33	
Bromomethane	5.0 U	5.0	1	09/06/19 14:33	
2-Butanone (MEK)	10 U	10	1	09/06/19 14:33	
Carbon Disulfide	10 U	10	1	09/06/19 14:33	
Carbon Tetrachloride	5.0 U	5.0	1	09/06/19 14:33	
Chlorobenzene	5.0 U	5.0	1	09/06/19 14:33	
Chloroethane	5.0 U	5.0	1	09/06/19 14:33	
Chloroform	5.0 U	5.0	1	09/06/19 14:33	
Chloromethane	5.0 U	5.0	1	09/06/19 14:33	
Dibromochloromethane	5.0 U	5.0	1	09/06/19 14:33	
1,1-Dichloroethane	5.0 U	5.0	1	09/06/19 14:33	
1,2-Dichloroethane	5.0 U	5.0	1	09/06/19 14:33	
1,1-Dichloroethene	5.0 U	5.0	1	09/06/19 14:33	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 14:33	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/06/19 14:33	
1,2-Dichloropropane	5.0 U	5.0	1	09/06/19 14:33	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 14:33	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/06/19 14:33	
Ethylbenzene	5.0 U	5.0	1	09/06/19 14:33	
2-Hexanone	10 U	10	1	09/06/19 14:33	
Methylene Chloride	5.0 U	5.0	1	09/06/19 14:33	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/06/19 14:33	
Styrene	5.0 U	5.0	1	09/06/19 14:33	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/06/19 14:33	
Tetrachloroethene	5.0 U	5.0	1	09/06/19 14:33	
Toluene	5.0 U	5.0	1	09/06/19 14:33	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/06/19 14:33	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/06/19 14:33	
Trichloroethene	5.0 U	5.0	1	09/06/19 14:33	
Vinyl Chloride	5.0 U	5.0	1	09/06/19 14:33	
o-Xylene	5.0 U	5.0	1	09/06/19 14:33	
m,p-Xylenes	5.0 U	5.0	1	09/06/19 14:33	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	08/26/19 08:30
Sample Matrix:	Water	**Date Received:**	08/26/19 14:10
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R1908160-018	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	09/06/19 14:33	
Toluene-d8	99	87 - 121	09/06/19 14:33	
Dibromofluoromethane	92	89 - 119	09/06/19 14:33	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Xerox Corporation USA **Service Request:** R1908160
Project: Bldg 801 Annual Wells
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Toluene-d8 87-121	Dibromofluoromethane 89-119
VE-6	R1908160-001	98	100	103
VE-10	R1908160-002	94	98	91
VE-12	R1908160-003	96	101	104
VE-15	R1908160-004	98	101	92
RW-4	R1908160-005	95	98	91
MW-2	R1908160-006	96	99	92
MW-10	R1908160-007	96	99	92
MW-13S	R1908160-008	93	98	90
MW-16	R1908160-009	94	99	95
MW-18S	R1908160-010	95	100	89
MW-19	R1908160-011	95	98	91
MW-24S	R1908160-012	94	98	90
SW-34	R1908160-014	93	98	89
SW-35	R1908160-015	92	97	90
SW-35 DUP	R1908160-016	95	97	91
Trip Blank	R1908160-018	94	99	92
Method Blank	RQ1909910-04	97	99	91
Method Blank	RQ1910002-04	97	101	103
Method Blank	RQ1910208-06	95	99	94
Lab Control Sample	RQ1909910-03	99	100	96
Lab Control Sample	RQ1910002-03	97	99	103
Lab Control Sample	RQ1910208-04	98	102	100

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1909910-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Acetone	10	U	10	1	09/06/19 12:58	
Benzene	5.0	U	5.0	1	09/06/19 12:58	
Bromodichloromethane	5.0	U	5.0	1	09/06/19 12:58	
Bromoform	5.0	U	5.0	1	09/06/19 12:58	
Bromomethane	5.0	U	5.0	1	09/06/19 12:58	
2-Butanone (MEK)	10	U	10	1	09/06/19 12:58	
Carbon Disulfide	10	U	10	1	09/06/19 12:58	
Carbon Tetrachloride	5.0	U	5.0	1	09/06/19 12:58	
Chlorobenzene	5.0	U	5.0	1	09/06/19 12:58	
Chloroethane	5.0	U	5.0	1	09/06/19 12:58	
Chloroform	5.0	U	5.0	1	09/06/19 12:58	
Chloromethane	5.0	U	5.0	1	09/06/19 12:58	
Dibromochloromethane	5.0	U	5.0	1	09/06/19 12:58	
1,1-Dichloroethane	5.0	U	5.0	1	09/06/19 12:58	
1,2-Dichloroethane	5.0	U	5.0	1	09/06/19 12:58	
1,1-Dichloroethene	5.0	U	5.0	1	09/06/19 12:58	
cis-1,2-Dichloroethene	5.0	U	5.0	1	09/06/19 12:58	
trans-1,2-Dichloroethene	5.0	U	5.0	1	09/06/19 12:58	
1,2-Dichloropropane	5.0	U	5.0	1	09/06/19 12:58	
cis-1,3-Dichloropropene	5.0	U	5.0	1	09/06/19 12:58	
trans-1,3-Dichloropropene	5.0	U	5.0	1	09/06/19 12:58	
Ethylbenzene	5.0	U	5.0	1	09/06/19 12:58	
2-Hexanone	10	U	10	1	09/06/19 12:58	
Methylene Chloride	5.0	U	5.0	1	09/06/19 12:58	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	09/06/19 12:58	
Styrene	5.0	U	5.0	1	09/06/19 12:58	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	09/06/19 12:58	
Tetrachloroethene	5.0	U	5.0	1	09/06/19 12:58	
Toluene	5.0	U	5.0	1	09/06/19 12:58	
1,1,1-Trichloroethane	5.0	U	5.0	1	09/06/19 12:58	
1,1,2-Trichloroethane	5.0	U	5.0	1	09/06/19 12:58	
Trichloroethene	5.0	U	5.0	1	09/06/19 12:58	
Vinyl Chloride	5.0	U	5.0	1	09/06/19 12:58	
o-Xylene	5.0	U	5.0	1	09/06/19 12:58	
m,p-Xylenes	5.0	U	5.0	1	09/06/19 12:58	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1909910-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/06/19 12:58	
Toluene-d8	99	87 - 121	09/06/19 12:58	
Dibromofluoromethane	91	89 - 119	09/06/19 12:58	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1910002-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Acetone	**16**	10	1	09/09/19 13:05	
Benzene	5.0 U	5.0	1	09/09/19 13:05	
Bromodichloromethane	5.0 U	5.0	1	09/09/19 13:05	
Bromoform	5.0 U	5.0	1	09/09/19 13:05	
Bromomethane	5.0 U	5.0	1	09/09/19 13:05	
2-Butanone (MEK)	10 U	10	1	09/09/19 13:05	
Carbon Disulfide	10 U	10	1	09/09/19 13:05	
Carbon Tetrachloride	5.0 U	5.0	1	09/09/19 13:05	
Chlorobenzene	5.0 U	5.0	1	09/09/19 13:05	
Chloroethane	5.0 U	5.0	1	09/09/19 13:05	
Chloroform	5.0 U	5.0	1	09/09/19 13:05	
Chloromethane	5.0 U	5.0	1	09/09/19 13:05	
Dibromochloromethane	5.0 U	5.0	1	09/09/19 13:05	
1,1-Dichloroethane	5.0 U	5.0	1	09/09/19 13:05	
1,2-Dichloroethane	5.0 U	5.0	1	09/09/19 13:05	
1,1-Dichloroethene	5.0 U	5.0	1	09/09/19 13:05	
cis-1,2-Dichloroethene	5.0 U	5.0	1	09/09/19 13:05	
trans-1,2-Dichloroethene	5.0 U	5.0	1	09/09/19 13:05	
1,2-Dichloropropane	5.0 U	5.0	1	09/09/19 13:05	
cis-1,3-Dichloropropene	5.0 U	5.0	1	09/09/19 13:05	
trans-1,3-Dichloropropene	5.0 U	5.0	1	09/09/19 13:05	
Ethylbenzene	5.0 U	5.0	1	09/09/19 13:05	
2-Hexanone	10 U	10	1	09/09/19 13:05	
Methylene Chloride	5.0 U	5.0	1	09/09/19 13:05	
4-Methyl-2-pentanone (MIBK)	10 U	10	1	09/09/19 13:05	
Styrene	5.0 U	5.0	1	09/09/19 13:05	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1	09/09/19 13:05	
Tetrachloroethene	5.0 U	5.0	1	09/09/19 13:05	
Toluene	5.0 U	5.0	1	09/09/19 13:05	
1,1,1-Trichloroethane	5.0 U	5.0	1	09/09/19 13:05	
1,1,2-Trichloroethane	5.0 U	5.0	1	09/09/19 13:05	
Trichloroethene	5.0 U	5.0	1	09/09/19 13:05	
Vinyl Chloride	5.0 U	5.0	1	09/09/19 13:05	
o-Xylene	5.0 U	5.0	1	09/09/19 13:05	
m,p-Xylenes	5.0 U	5.0	1	09/09/19 13:05	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1910002-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	09/09/19 13:05	
Toluene-d8	101	87 - 121	09/09/19 13:05	
Dibromofluoromethane	103	89 - 119	09/09/19 13:05	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1910208-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	Dil.	Date Analyzed	Q
Acetone	10	U	10	1	09/12/19 11:59	
Benzene	5.0	U	5.0	1	09/12/19 11:59	
Bromodichloromethane	5.0	U	5.0	1	09/12/19 11:59	
Bromoform	5.0	U	5.0	1	09/12/19 11:59	
Bromomethane	5.0	U	5.0	1	09/12/19 11:59	
2-Butanone (MEK)	10	U	10	1	09/12/19 11:59	
Carbon Disulfide	10	U	10	1	09/12/19 11:59	
Carbon Tetrachloride	5.0	U	5.0	1	09/12/19 11:59	
Chlorobenzene	5.0	U	5.0	1	09/12/19 11:59	
Chloroethane	5.0	U	5.0	1	09/12/19 11:59	
Chloroform	5.0	U	5.0	1	09/12/19 11:59	
Chloromethane	5.0	U	5.0	1	09/12/19 11:59	
Dibromochloromethane	5.0	U	5.0	1	09/12/19 11:59	
1,1-Dichloroethane	5.0	U	5.0	1	09/12/19 11:59	
1,2-Dichloroethane	5.0	U	5.0	1	09/12/19 11:59	
1,1-Dichloroethene	5.0	U	5.0	1	09/12/19 11:59	
cis-1,2-Dichloroethene	5.0	U	5.0	1	09/12/19 11:59	
trans-1,2-Dichloroethene	5.0	U	5.0	1	09/12/19 11:59	
1,2-Dichloropropane	5.0	U	5.0	1	09/12/19 11:59	
cis-1,3-Dichloropropene	5.0	U	5.0	1	09/12/19 11:59	
trans-1,3-Dichloropropene	5.0	U	5.0	1	09/12/19 11:59	
Ethylbenzene	5.0	U	5.0	1	09/12/19 11:59	
2-Hexanone	10	U	10	1	09/12/19 11:59	
Methylene Chloride	5.0	U	5.0	1	09/12/19 11:59	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	09/12/19 11:59	
Styrene	5.0	U	5.0	1	09/12/19 11:59	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	09/12/19 11:59	
Tetrachloroethene	5.0	U	5.0	1	09/12/19 11:59	
Toluene	5.0	U	5.0	1	09/12/19 11:59	
1,1,1-Trichloroethane	5.0	U	5.0	1	09/12/19 11:59	
1,1,2-Trichloroethane	5.0	U	5.0	1	09/12/19 11:59	
Trichloroethene	5.0	U	5.0	1	09/12/19 11:59	
Vinyl Chloride	5.0	U	5.0	1	09/12/19 11:59	
o-Xylene	5.0	U	5.0	1	09/12/19 11:59	
m,p-Xylenes	5.0	U	5.0	1	09/12/19 11:59	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1910208-06	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	09/12/19 11:59	
Toluene-d8	99	87 - 121	09/12/19 11:59	
Dibromofluoromethane	94	89 - 119	09/12/19 11:59	

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells
Sample Matrix: Water

Service Request: R1908160
Date Analyzed: 09/06/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1909910-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	21.8	20.0	109	40-161
Benzene	8260C	19.8	20.0	99	79-119
Bromodichloromethane	8260C	18.5	20.0	93	81-123
Bromoform	8260C	18.3	20.0	91	65-146
Bromomethane	8260C	13.7	20.0	69	42-166
2-Butanone (MEK)	8260C	19.3	20.0	97	61-137
Carbon Disulfide	8260C	20.8	20.0	104	66-128
Carbon Tetrachloride	8260C	19.1	20.0	95	70-127
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	19.6	20.0	98	62-131
Chloroform	8260C	19.1	20.0	95	79-120
Chloromethane	8260C	21.4	20.0	107	65-135
Dibromochloromethane	8260C	19.6	20.0	98	72-128
1,1-Dichloroethane	8260C	19.6	20.0	98	80-124
1,2-Dichloroethane	8260C	17.0	20.0	85	71-127
1,1-Dichloroethene	8260C	20.0	20.0	100	71-118
cis-1,2-Dichloroethene	8260C	18.4	20.0	92	80-121
trans-1,2-Dichloroethene	8260C	19.6	20.0	98	73-118
1,2-Dichloropropane	8260C	20.5	20.0	103	80-119
cis-1,3-Dichloropropene	8260C	17.9	20.0	89	77-122
trans-1,3-Dichloropropene	8260C	20.0	20.0	100	71-133
Ethylbenzene	8260C	19.2	20.0	96	76-120
2-Hexanone	8260C	18.4	20.0	92	63-124
Methylene Chloride	8260C	19.7	20.0	99	73-122
4-Methyl-2-pentanone (MIBK)	8260C	19.0	20.0	95	66-124
Styrene	8260C	19.7	20.0	99	80-124
1,1,2,2-Tetrachloroethane	8260C	20.1	20.0	101	78-126
Tetrachloroethene	8260C	19.0	20.0	95	72-125
Toluene	8260C	20.0	20.0	100	79-119
1,1,1-Trichloroethane	8260C	19.7	20.0	98	75-125
1,1,2-Trichloroethane	8260C	18.4	20.0	92	82-121
Trichloroethene	8260C	17.1	20.0	86	74-122
Vinyl Chloride	8260C	19.3	20.0	96	74-159

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells
Sample Matrix: Water

Service Request: R1908160
Date Analyzed: 09/06/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1909910-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	20.1	20.0	100	79-123
m,p-Xylenes	8260C	40.6	40.0	102	80-126

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells
Sample Matrix: Water

Service Request: R1908160
Date Analyzed: 09/09/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1910002-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	29.8	20.0	149	40-161
Benzene	8260C	19.1	20.0	96	79-119
Bromodichloromethane	8260C	16.8	20.0	84	81-123
Bromoform	8260C	13.6	20.0	68	65-146
Bromomethane	8260C	20.4	20.0	102	42-166
2-Butanone (MEK)	8260C	19.0	20.0	95	61-137
Carbon Disulfide	8260C	18.1	20.0	91	66-128
Carbon Tetrachloride	8260C	17.2	20.0	86	70-127
Chlorobenzene	8260C	18.8	20.0	94	80-121
Chloroethane	8260C	19.0	20.0	95	62-131
Chloroform	8260C	20.7	20.0	104	79-120
Chloromethane	8260C	20.2	20.0	101	65-135
Dibromochloromethane	8260C	16.6	20.0	83	72-128
1,1-Dichloroethane	8260C	19.7	20.0	98	80-124
1,2-Dichloroethane	8260C	19.2	20.0	96	71-127
1,1-Dichloroethene	8260C	19.3	20.0	97	71-118
cis-1,2-Dichloroethene	8260C	21.3	20.0	106	80-121
trans-1,2-Dichloroethene	8260C	20.8	20.0	104	73-118
1,2-Dichloropropane	8260C	18.4	20.0	92	80-119
cis-1,3-Dichloropropene	8260C	16.1	20.0	80	77-122
trans-1,3-Dichloropropene	8260C	16.3	20.0	81	71-133
Ethylbenzene	8260C	18.9	20.0	94	76-120
2-Hexanone	8260C	16.6	20.0	83	63-124
Methylene Chloride	8260C	20.0	20.0	100	73-122
4-Methyl-2-pentanone (MIBK)	8260C	17.6	20.0	88	66-124
Styrene	8260C	18.7	20.0	94	80-124
1,1,2,2-Tetrachloroethane	8260C	18.8	20.0	94	78-126
Tetrachloroethene	8260C	17.8	20.0	89	72-125
Toluene	8260C	18.8	20.0	94	79-119
1,1,1-Trichloroethane	8260C	19.4	20.0	97	75-125
1,1,2-Trichloroethane	8260C	18.9	20.0	95	82-121
Trichloroethene	8260C	18.5	20.0	93	74-122
Vinyl Chloride	8260C	20.2	20.0	101	74-159

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells
Sample Matrix: Water

Service Request: R1908160
Date Analyzed: 09/09/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1910002-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	18.6	20.0	93	79-123
m,p-Xylenes	8260C	37.2	40.0	93	80-126

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells
Sample Matrix: Water

Service Request: R1908160
Date Analyzed: 09/12/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1910208-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Acetone	8260C	23.7	20.0	118	40-161
Benzene	8260C	20.5	20.0	102	79-119
Bromodichloromethane	8260C	20.6	20.0	103	81-123
Bromoform	8260C	19.9	20.0	100	65-146
Bromomethane	8260C	22.5	20.0	112	42-166
2-Butanone (MEK)	8260C	18.8	20.0	94	61-137
Carbon Disulfide	8260C	19.4	20.0	97	66-128
Carbon Tetrachloride	8260C	21.3	20.0	106	70-127
Chlorobenzene	8260C	19.9	20.0	100	80-121
Chloroethane	8260C	17.2	20.0	86	62-131
Chloroform	8260C	19.5	20.0	97	79-120
Chloromethane	8260C	18.0	20.0	90	65-135
Dibromochloromethane	8260C	20.7	20.0	103	72-128
1,1-Dichloroethane	8260C	19.9	20.0	100	80-124
1,2-Dichloroethane	8260C	19.0	20.0	95	71-127
1,1-Dichloroethene	8260C	19.1	20.0	96	71-118
cis-1,2-Dichloroethene	8260C	20.0	20.0	100	80-121
trans-1,2-Dichloroethene	8260C	20.0	20.0	100	73-118
1,2-Dichloropropane	8260C	19.5	20.0	98	80-119
cis-1,3-Dichloropropene	8260C	19.9	20.0	100	77-122
trans-1,3-Dichloropropene	8260C	19.8	20.0	99	71-133
Ethylbenzene	8260C	19.8	20.0	99	76-120
2-Hexanone	8260C	19.0	20.0	95	63-124
Methylene Chloride	8260C	18.6	20.0	93	73-122
4-Methyl-2-pentanone (MIBK)	8260C	19.9	20.0	99	66-124
Styrene	8260C	20.2	20.0	101	80-124
1,1,2,2-Tetrachloroethane	8260C	21.3	20.0	107	78-126
Tetrachloroethene	8260C	19.5	20.0	98	72-125
Toluene	8260C	21.1	20.0	106	79-119
1,1,1-Trichloroethane	8260C	19.9	20.0	100	75-125
1,1,2-Trichloroethane	8260C	20.8	20.0	104	82-121
Trichloroethene	8260C	18.9	20.0	94	74-122
Vinyl Chloride	8260C	18.0	20.0	90	74-159

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells
Sample Matrix: Water

Service Request: R1908160
Date Analyzed: 09/12/19

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1910208-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
o-Xylene	8260C	20.4	20.0	102	79-123
m,p-Xylenes	8260C	41.6	40.0	104	80-126

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells

Service Request: R1908160
Date Analyzed: 9/ 6/19

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\090619\P29543.D\

Calibration Date: 9/5/19
Calibration ID: RC1900099
Analysis Lot: 650250
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Acetone	50.0	46.4	0.4259	0.3951	-7.2	NA	± 20 %	Average RF
Benzene	50.0	48.5	1.496	1.452	-2.9	NA	± 20 %	Average RF
Bromodichloromethane	50.0	48.5	0.4209	0.4081	-3.0	NA	± 20 %	Average RF
Bromoform	50.0	50.3	0.3700	0.3723	0.6	NA	± 20 %	Average RF
Bromomethane	50.0	33.6	0.7446	0.4999	-32.9 *	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	50.7	0.5206	0.5274	1.3	NA	± 20 %	Average RF
Carbon Disulfide	50.0	50.9	1.416	1.440	1.7	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	45.3	0.3759	0.3402	-9.5	NA	± 20 %	Average RF
Chlorobenzene	50.0	48.2	1.066	1.027	-3.6	NA	± 20 %	Average RF
Chloroethane	50.0	53.8	NA	NA	NA	7.6	± 20 %	Quadratic
Chloroform	50.0	45.9	1.013	0.9296	-8.2	NA	± 20 %	Average RF
Chloromethane	50.0	56.2	0.8433	0.9481	12.4	NA	± 20 %	Average RF
Dibromochloromethane	50.0	49.6	0.3177	0.3154	-0.7	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	49.2	1.135	1.116	-1.7	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	44.2	0.5788	0.5111	-11.7	NA	± 20 %	Average RF
1,1-Dichloroethene	50.0	49.1	0.4920	0.4832	-1.8	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	46.2	0.6530	0.6034	-7.6	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	46.7	0.5545	0.5181	-6.6	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	49.6	0.3980	0.3945	-0.9	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	48.9	NA	NA	NA	-2.2	± 20 %	Quadratic
trans-1,3-Dichloropropene	50.0	52.8	0.5328	0.5630	5.7	NA	± 20 %	Average RF
Ethylbenzene	50.0	47.9	0.5950	0.5699	-4.2	NA	± 20 %	Average RF
2-Hexanone	50.0	48.8	0.5055	0.4930	-2.5	NA	± 20 %	Average RF
Methylene Chloride	50.0	48.4	0.5929	0.5739	-3.2	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	49.0	0.5896	0.5772	-2.1	NA	± 20 %	Average RF
Styrene	50.0	49.9	1.198	1.197	-0.1	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	51.6	1.069	1.103	3.2	NA	± 20 %	Average RF
Tetrachloroethene	50.0	45.8	0.2926	0.2680	-8.4	NA	± 20 %	Average RF
Toluene	50.0	48.9	1.527	1.494	-2.1	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	47.0	0.8226	0.7738	-5.9	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	47.3	0.3463	0.3277	-5.4	NA	± 20 %	Average RF
Trichloroethene	50.0	42.9	0.3761	0.3226	-14.2	NA	± 20 %	Average RF
Vinyl Chloride	50.0	51.8	0.8885	0.9214	3.7	NA	± 20 %	Average RF
o-Xylene	50.0	47.1	0.7288	0.6864	-5.8	NA	± 20 %	Average RF
m,p-Xylenes	100	98.8	0.7087	0.7006	-1.2	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	49.4	0.5097	0.5038	-1.2	NA	± 20 %	Average RF
Toluene-d8	50.0	50.0	1.310	1.309	0.0	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	47.3	0.2840	0.2689	-5.3	NA	± 20 %	Average RF

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells

Service Request: R1908160
Date Analyzed: 9/ 9/19

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
File ID: I:\ACQUDATA\msvoa10\data\090919\E4669.D\

Calibration Date: 7/1/19
Calibration ID: RC1900068
Analysis Lot: 650483
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Acetone	50.0	50.4	0.2957	0.2983	0.9	NA	± 20 %	Average RF
Benzene	50.0	44.1	1.452	1.281	-11.8	NA	± 20 %	Average RF
Bromodichloromethane	50.0	40.2	0.4929	0.3957	-19.7	NA	± 20 %	Average RF
Bromoform	50.0	34.1	0.3074	0.2097	-31.8 *	NA	± 20 %	Average RF
Bromomethane	50.0	55.9	NA	NA	NA	11.7	± 20 %	Quadratic
2-Butanone (MEK)	50.0	44.0	0.4395	0.3869	-12.0	NA	± 20 %	Average RF
Carbon Disulfide	50.0	44.6	1.441	1.285	-10.8	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	40.3	0.4733	0.3818	-19.3	NA	± 20 %	Average RF
Chlorobenzene	50.0	43.9	1.098	0.9642	-12.2	NA	± 20 %	Average RF
Chloroethane	50.0	48.9	NA	NA	NA	-2.2	± 20 %	Quadratic
Chloroform	50.0	46.3	0.8993	0.8323	-7.5	NA	± 20 %	Average RF
Chloromethane	50.0	48.1	0.8571	0.8247	-3.8	NA	± 20 %	Average RF
Dibromochloromethane	50.0	40.1	0.4193	0.3358	-19.9	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	45.5	1.029	0.9371	-8.9	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	45.9	0.5572	0.5109	-8.3	NA	± 20 %	Average RF
1,1-Dichloroethene	50.0	46.5	0.4655	0.4329	-7.0	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	47.5	0.5416	0.5140	-5.1	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	48.1	0.4821	0.4637	-3.8	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	44.6	0.4053	0.3617	-10.7	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	42.4	0.6395	0.5422	-15.2	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	41.5	0.5924	0.4920	-17.0	NA	± 20 %	Average RF
Ethylbenzene	50.0	44.0	0.5844	0.5137	-12.1	NA	± 20 %	Average RF
2-Hexanone	50.0	39.4	0.5096	0.4017	-21.2 *	NA	± 20 %	Average RF
Methylene Chloride	50.0	45.7	0.5433	0.4962	-8.7	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	41.7	0.5883	0.4905	-16.6	NA	± 20 %	Average RF
Styrene	50.0	45.7	1.198	1.095	-8.6	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	41.7	1.064	0.8880	-16.5	NA	± 20 %	Average RF
Tetrachloroethene	50.0	42.1	0.3381	0.2848	-15.8	NA	± 20 %	Average RF
Toluene	50.0	44.6	1.496	1.335	-10.8	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	45.1	0.7773	0.7006	-9.9	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	45.0	0.3413	0.3070	-10.1	NA	± 20 %	Average RF
Trichloroethene	50.0	44.4	0.3684	0.3271	-11.2	NA	± 20 %	Average RF
Vinyl Chloride	50.0	52.0	0.7075	0.7351	3.9	NA	± 20 %	Average RF
o-Xylene	50.0	42.6	0.7181	0.6117	-14.8	NA	± 20 %	Average RF
m,p-Xylenes	100	86.6	0.7289	0.6312	-13.4	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	46.5	0.5004	0.4650	-7.1	NA	± 20 %	Average RF
Toluene-d8	50.0	48.1	1.315	1.265	-3.8	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	48.8	0.3289	0.3207	-2.5	NA	± 20 %	Average RF

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells

Service Request: R1908160
Date Analyzed: 9/12/19

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
File ID: I:\ACQUDATA\msvoa12\Data\091219\P29748.D\

Calibration Date: 9/11/19
Calibration ID: RC1900101
Analysis Lot: 651033
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Acetone	50.0	41.3	0.4069	0.3360	-17.4	NA	± 20 %	Average RF
Benzene	50.0	47.2	1.503	1.420	-5.6	NA	± 20 %	Average RF
Bromodichloromethane	50.0	48.0	0.3992	0.3830	-4.0	NA	± 20 %	Average RF
Bromoform	50.0	47.7	0.3504	0.3341	-4.7	NA	± 20 %	Average RF
Bromomethane	50.0	52.8	NA	NA	NA	5.6	± 20 %	Quadratic
2-Butanone (MEK)	50.0	42.4	0.5684	0.4825	-15.1	NA	± 20 %	Average RF
Carbon Disulfide	50.0	47.3	1.466	1.385	-5.5	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	50.9	0.3405	0.3469	1.9	NA	± 20 %	Average RF
Chlorobenzene	50.0	46.3	1.103	1.022	-7.4	NA	± 20 %	Average RF
Chloroethane	50.0	47.1	0.5351	0.5046	-5.7	NA	± 20 %	Average RF
Chloroform	50.0	45.2	0.9683	0.8751	-9.6	NA	± 20 %	Average RF
Chloromethane	50.0	44.6	0.9520	0.8485	-10.9	NA	± 20 %	Average RF
Dibromochloromethane	50.0	47.9	0.3097	0.2966	-4.2	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	47.3	1.099	1.040	-5.3	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	45.7	0.5109	0.4673	-8.5	NA	± 20 %	Average RF
1,1-Dichloroethene	50.0	48.6	0.4891	0.4752	-2.8	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	47.0	0.6097	0.5729	-6.0	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	47.9	0.5311	0.5089	-4.2	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	46.2	0.4148	0.3836	-7.5	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	48.9	0.5930	0.5799	-2.2	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	49.7	0.5457	0.5422	-0.6	NA	± 20 %	Average RF
Ethylbenzene	50.0	47.6	0.5989	0.5700	-4.8	NA	± 20 %	Average RF
2-Hexanone	50.0	41.9	0.5567	0.4663	-16.2	NA	± 20 %	Average RF
Methylene Chloride	50.0	42.6	0.6371	0.5425	-14.9	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	42.5	0.6419	0.5461	-14.9	NA	± 20 %	Average RF
Styrene	50.0	49.2	1.219	1.199	-1.7	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	45.1	1.136	1.025	-9.8	NA	± 20 %	Average RF
Tetrachloroethene	50.0	46.1	0.3015	0.2780	-7.8	NA	± 20 %	Average RF
Toluene	50.0	48.4	1.520	1.471	-3.2	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	47.3	0.7720	0.7298	-5.5	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	47.1	0.3375	0.3182	-5.7	NA	± 20 %	Average RF
Trichloroethene	50.0	48.4	0.3342	0.3237	-3.1	NA	± 20 %	Average RF
Vinyl Chloride	50.0	48.4	0.8887	0.8607	-3.2	NA	± 20 %	Average RF
o-Xylene	50.0	46.5	0.7363	0.6852	-6.9	NA	± 20 %	Average RF
m,p-Xylenes	100	96.8	0.7236	0.7006	-3.2	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	48.3	0.4854	0.4693	-3.3	NA	± 20 %	Average RF
Toluene-d8	50.0	49.5	1.248	1.236	-0.9	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	48.9	0.2650	0.2589	-2.3	NA	± 20 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Xerox Corporation USA
Project: Bldg 801 Annual Wells

Service Request: R1908160
Date Analyzed: 9/6/19 11:12

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\090619\P29543.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1909910-02
Analysis Lot: 650250
Signal ID: 1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	280,323	11.84	593,872	6.52	531,613	9.80
	Upper Limit ==>	560,646	12.34	1,187,744	7.02	1,063,226	10.30
	Lower Limit ==>	140,162	11.34	296,936	6.02	265,807	9.30
	ICAL Result ==>	259,726	11.84	525,476	6.52	485,782	9.80
Associated Analyses							
Lab Control Sample	RQ1909910-03	272,309	11.84	588,915	6.52	521,715	9.80
Method Blank	RQ1909910-04	233,305	11.84	542,158	6.53	482,857	9.80
Trip Blank	R1908160-018	245,340	11.84	546,509	6.52	481,326	9.80
VE-15	R1908160-004	242,426	11.84	537,644	6.52	477,541	9.80
MW-10	R1908160-007	245,125	11.84	535,953	6.53	480,111	9.80
VE-10	R1908160-002	240,057	11.84	542,183	6.53	479,619	9.80
RW-4	R1908160-005	241,948	11.84	542,590	6.54	476,930	9.80
MW-2	R1908160-006	240,900	11.84	539,979	6.53	477,315	9.80
MW-13S	R1908160-008	249,963	11.84	549,988	6.53	473,912	9.80
MW-18S	R1908160-010	236,471	11.84	540,849	6.52	474,311	9.80
MW-24S	R1908160-012	243,710	11.84	543,020	6.53	484,241	9.80
SW-34	R1908160-014	236,613	11.85	535,214	6.54	461,900	9.80
SW-35	R1908160-015	243,115	11.84	538,765	6.53	473,229	9.80
SW-35 DUP	R1908160-016	242,050	11.84	548,178	6.53	481,166	9.80
MW-19	R1908160-011	231,391	11.84	532,942	6.54	466,019	9.80
VE-10	R1908160-002	246,298	11.84	551,877	6.53	480,981	9.80

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Analyzed:**	9/6/19 11:12

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID:	I:\ACQUDATA\msvoa12\Data\090619\P29543.D\	**Lab Code:**	RQ1909910-02
Instrument ID:	R-MS-12	**Analysis Lot:**	650250
Analytical Method:	8260C	**Signal ID:**	1

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	349,741	5.44
	Upper Limit ==>	699,482	5.94
	Lower Limit ==>	174,871	4.94
	ICAL Result ==>	313,822	5.45
Associated Analyses			
Lab Control Sample	RQ1909910-03	344,254	5.44
Method Blank	RQ1909910-04	319,607	5.46
Trip Blank	R1908160-018	328,110	5.45
VE-15	R1908160-004	323,926	5.45
MW-10	R1908160-007	321,729	5.46
VE-10	R1908160-002	318,340	5.46
RW-4	R1908160-005	313,875	5.46
MW-2	R1908160-006	322,960	5.46
MW-13S	R1908160-008	327,365	5.45
MW-18S	R1908160-010	321,416	5.45
MW-24S	R1908160-012	322,302	5.46
SW-34	R1908160-014	316,393	5.46
SW-35	R1908160-015	317,612	5.46
SW-35 DUP	R1908160-016	318,665	5.45
MW-19	R1908160-011	312,179	5.46
VE-10	R1908160-002	324,229	5.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Analyzed:**	9/9/19 10:51

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID:	I:\ACQUDATA\msvoa10\data\090919\E4669.D\	**Lab Code:**	RQ1910002-02
Instrument ID:	R-MS-10	**Analysis Lot:**	650483
Analytical Method:	8260C	**Signal ID:**	1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	221,003	11.85	465,116	6.49	410,484	9.80
	Upper Limit ==>	442,006	12.35	930,232	6.99	820,968	10.30
	Lower Limit ==>	110,502	11.35	232,558	5.99	205,242	9.30
	ICAL Result ==>	177,696	11.85	369,417	6.49	321,722	9.80
Associated Analyses							
Lab Control Sample	RQ1910002-03	205,036	11.85	443,833	6.49	392,754	9.80
Method Blank	RQ1910002-04	197,811	11.85	424,618	6.49	374,600	9.80
VE-12	R1908160-003	189,345	11.85	414,578	6.49	362,712	9.80
VE-6	R1908160-001	196,357	11.85	424,646	6.49	375,460	9.80

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Analyzed:**	9/9/19 10:51

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID:	I:\ACQUDATA\msvoa10\data\090919\E4669.D\	**Lab Code:**	RQ1910002-02
Instrument ID:	R-MS-10	**Analysis Lot:**	650483
Analytical Method:	8260C	**Signal ID:**	1

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	311,532	5.39
	Upper Limit ==>	623,064	5.89
	Lower Limit ==>	155,766	4.89
	ICAL Result ==>	256,481	5.40
Associated Analyses			
Lab Control Sample	RQ1910002-03	290,546	5.39
Method Blank	RQ1910002-04	284,173	5.39
VE-12	R1908160-003	279,669	5.39
VE-6	R1908160-001	275,122	5.40

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Analyzed:**	9/12/19 09:55

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID:	I:\ACQUDATA\msvoa12\Data\091219\P29748.D\	**Lab Code:**	RQ1910208-02
Instrument ID:	R-MS-12	**Analysis Lot:**	651033
Analytical Method:	8260C	**Signal ID:**	1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	274,695	11.84	560,571	6.53	505,098	9.80
	Upper Limit ==>	549,390	12.34	1,121,142	7.03	1,010,196	10.30
	Lower Limit ==>	137,348	11.34	280,286	6.03	252,549	9.30
	ICAL Result ==>	251,706	11.84	532,634	6.53	479,166	9.80
Associated Analyses							
Lab Control Sample	RQ1910208-04	255,043	11.84	546,234	6.52	490,014	9.80
Method Blank	RQ1910208-06	240,323	11.84	530,183	6.53	459,320	9.80
MW-16	R1908160-009	247,777	11.84	545,124	6.53	472,635	9.80

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Xerox Corporation USA	**Service Request:**	R1908160
Project:	Bldg 801 Annual Wells	**Date Analyzed:**	9/12/19 09:55

Internal Standard Area and RT Summary
Volatile Organic Compounds by GC/MS

File ID:	I:\ACQUDATA\msvoa12\Data\091219\P29748.D\	**Lab Code:**	RQ1910208-02
Instrument ID:	R-MS-12	**Analysis Lot:**	651033
Analytical Method:	8260C	**Signal ID:**	1

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	337,562	5.46
	Upper Limit ==>	675,124	5.96
	Lower Limit ==>	168,781	4.96
	ICAL Result ==>	324,461	5.45
Associated Analyses			
Lab Control Sample	RQ1910208-04	335,545	5.45
Method Blank	RQ1910208-06	315,019	5.46
MW-16	R1908160-009	327,850	5.45

Results flagged with an asterisk (*) indicate values outside control criteria.

September 26, 2019 Service Request No:R1908707

Missy Bessey
Xerox Corporation USA
800 Phillips Road
Bldg #205-99F
Webster, NY 14580

Laboratory Results for: Bldg 801 Wells PFAS & 1,4-D

Dear Missy,

Enclosed are the results of the sample(s) submitted to our laboratory September 10, 2019
For your reference, these analyses have been assigned our service request number **R1908707.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro for

Janice Jaeger

Project Manager

CC: Janice Szucs

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Xerox Corporation USA
Project: Bldg 801 Wells PFAS & 1,4-D
Sample Matrix: Water

Service Request: R1908707
Date Received: 09/10/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 09/10/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.
Sampling was performed by ALS personnel in accordance with ALS Field Sampling SOPs or by client specifications.

Semivolatiles by GC/MS:

Method 8270D SIM, 09/17/2019: The control limits for matrix spike recovery of one or more of the spiked analytes are not applicable and have been flagged with a "#". The concentration of the analyte(s) in the parent sample is more than 4x the spike concentration. No further corrective action was required.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Approved by _____ Date 09/26/2019

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-13S			Lab ID: R1908707-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,4-Dioxane	0.067		0.027	0.040	ug/L	8270D SIM

CLIENT ID: VE-12			Lab ID: R1908707-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,4-Dioxane	590		0.27	0.40	ug/L	8270D SIM

CLIENT ID: MW-24S			Lab ID: R1908707-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,4-Dioxane	0.035	J	0.027	0.040	ug/L	8270D SIM

CLIENT ID: MW-24S Dup			Lab ID: R1908707-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,4-Dioxane	0.038	J	0.027	0.040	ug/L	8270D SIM

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Xerox Corporation USA **Service Request:**R1908707

Project: Bldg 801 Wells PFAS & 1,4-D

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1908707-001	MW-13S	9/10/2019	1240
R1908707-002	VE-12	9/10/2019	1310
R1908707-003	MW-24S	9/10/2019	1345
R1908707-004	MW-24S Dup	9/10/2019	1345
R1908707-005	Field Blank	9/10/2019	1220
R1908707-006	Equipment Blank	9/10/2019	1230

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 58573

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: 801 PFOA Wells	Project Number:
Project Manager:	Report CC:
Company/Address: Xerox	
Phone #:	Email:
Sampler's Signature:	Sampler's Printed Name:

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PFAS, 1,4 Dioxane	REMARKS/ ALTERNATE DESCRIPTION
MW-13S		9/10/19	1240	W		X	
VE-12			1310				MS/MSD
MW-24S			1345				DUP
FIELD BLANK			1220				
EQUIPMENT BLANK			1230				

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

GC/MS VOAs • 8260 • 624 • CLP
GC/MS SVOAs • 8270 • 625
GC VOAs • 8021 • 601/602
PESTICIDES • 8081 • 608
PCBs • 8082 • 608
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
_____ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name Daniel Wise	Printed Name	Printed Name	Printed Name	Printed Name
Firm AES	Firm AES	Firm	Firm	Firm	Firm
Date/Time 9/10/19	Date/Time 9/10/19 1450	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

R1908707 5
Xerox Corporation USA
Bldg 801 Wells PFAS & 1,4-D

FIELD MONITORING REPORT

PROJECT Xerox 801 PFOA Wells LAB ID

SAMPLE POINT ID MW-13S

PURGE INFORMATION

Well Depth (ft.) 20.45 Purge Date 9/10/19 Purge Method WATERRA

SWL (ft.) 6.57 Start Time 1115 Stop Time 1118

Standing Water (ft.) 13.88 Volume Purged gal. 2.2 # casings 1 DRY

Well Constant (gal/ft.) 0.16 Observations LT TAN TINT

Well Volume (gal.) 2.2

SAMPLING INFORMATION

Sample Method WATERRA

Date 9/10/19 Time 1240 SWL 8.81

Recharge Time Recharge Rate M

Appearance RUST-BROWN

Weather Conditions SUNNY 70° 48 hr.

Sampling Technician (Print) BOB LURBIAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
MYRON	pH	unit		
↓	Conductivity	µmhos/cm		
↓	Temperature	Degrees Celsius		

Calibration Date/Time 9/10/19

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT XENOX PFOA WELLS 801 LAB ID MS/MSD QC

SAMPLE POINT ID VE-12

PURGE INFORMATION

Well Depth (ft.) 16.98 Purge Date 9/10/19 Purge Method FLOW PUMP

SWL (ft.) 4.75 Start Time 1135 Stop Time 1139

Standing Water (ft.) 12.23 Volume Purged gal. 9.0 # casings 1.1 DM

Well Constant (gal/ft.) 0.65 Observations GREY - BLACK TINT

Well Volume (gal.) 7.9

SAMPLING INFORMATION

Sample Method BAILER

Date 9/10/19 Time 1310 SWL 10.00

Recharge Time _____ Recharge Rate M

Appearance CLEAR

Weather Conditions SUNNY 70 48 hr. P. CLOUDY 70

Sampling Technician (Print) BOB URBAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
MYRON	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ___/___/___ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xenox 801 PFOA Wells LAB ID DUP

SAMPLE POINT ID MW-24S

PURGE INFORMATION

Well Depth (ft.) 17.78 Purge Date 9/10/19 Purge Method Fixed Rate

SWL (ft.) 4.57 Start Time 1050 Stop Time 1052

Standing Water (ft.) 13.21 Volume Purged gal. 2.5 # casings 1.10

Well Constant (gal/ft.) 0.16 Observations LT RUST-TAN TINT

Well Volume (gal.) 2.1

SAMPLING INFORMATION

Sample Method BAILER

Date 9/10/19 Time 1345 SWL 6.03

Recharge Time _____ Recharge Rate M

Appearance LT RUST-TAN TINT

Weather Conditions SUNNY 70 48 hr. PARTLY SUNNY 70

Sampling Technician (Print) BOB URBAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
MYRON	pH	unit		
↓	Conductivity	µmhos/cm		
↓	Temperature	Degrees Celsius		

Calibration Date/Time ___/___/___ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT XENOX 801 PFOA WELLS LAB ID

SAMPLE POINT ID FIELD BLANK

PURGE INFORMATION

Well Depth (ft.) Purge Date Purge Method

SWL (ft.) Start Time Stop Time

Standing Water (ft.) Volume Purged gal. # casings

Well Constant (gal/ft.) Observations

Well Volume (gal.)

SAMPLING INFORMATION

Sample Method GRAB

Date 9/10/19 Time 1220 SWL

Recharge Time Recharge Rate

Appearance CLEAR

Weather Conditions SUNNY 70 48 hr.

Sampling Technician (Print) BOB LUBAN Signature

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ ____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

FIELD MONITORING REPORT

PROJECT Xerox 801 PFOA Wells LAB ID _____

SAMPLE POINT ID EQUIPMENT BLANK

PURGE INFORMATION

Well Depth (ft.) _____ Purge Date _____ Purge Method _____

SWL (ft.) _____ Start Time _____ Stop Time _____

Standing Water (ft.) _____ Volume Purged: gal. _____ # casings _____

Well Constant (gal/ft.) _____ Observations _____

Well Volume (gal.) _____

SAMPLING INFORMATION

Sample Method GRAB - BAILER

Date 9/10/19 Time 1230 SWL ~~_____~~

Recharge Time ~~_____~~ Recharge Rate ~~_____~~

Appearance CLEAR

Weather Conditions SUNNY 70 48 hr. _____

Sampling Technician (Print) BOB UNBAN Signature _____

Meter	Parameter	Unit	Replicate 1	Replicate 2
	pH	unit		
	Conductivity	µmhos/cm		
	Temperature	Degrees Celsius		

Calibration Date/Time ____/____/____ _____

OBSERVATIONS

Sampling procedures were performed in accordance with all applicable protocols.

Cooler Receipt and Preservation Check Form

R1908707 5
Xerox Corporation USA
Bldg 801 Wells PFAS & 1,4-D

Project/Client Xerox Folder Number

Cooler received on 9/10/19 by: dw **COURIER:** (ALS) UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N (NA)
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: **Wet Ice Dry Ice Gel packs** present?	Y (N)	7	Soil VOA received as:	Bulk Encore 5035set (NA)

8. Temperature Readings Date: 9/10/19 Time: 1440 ID: IR#7 (IR#10) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	24.1	24.4					
Correction Factor (°C)	+0.0	+0.0					
Corrected Temp (°C)	24.1	24.4					
Temp from:Type of bottle	Cont. tube	Cont. tube					
Within 0-6°C?	Y (N)	Y (N)	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by dw on 9/10/19 at 1440
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 9/10/19 Time: 2215 by: dw

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: OC0779-15MC
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	(SUB)
SO3	MARRS
(ALS)	REV

Labels secondary reviewed by: dw
PC Secondary Review: JMV 9/13/19

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D/		

Sample Name:	MW-13S	**Date Collected:**	09/10/19
Lab Code:	R1908707-001	**Date Received:**	09/10/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D SIM	JMISIUREWICZ	JMISIUREWICZ
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	VE-12	**Date Collected:**	09/10/19
Lab Code:	R1908707-002	**Date Received:**	09/10/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D SIM	JMISIUREWICZ	JMISIUREWICZ
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	MW-24S	**Date Collected:**	09/10/19
Lab Code:	R1908707-003	**Date Received:**	09/10/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D SIM	JMISIUREWICZ	JMISIUREWICZ
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	MW-24S Dup	**Date Collected:**	09/10/19
Lab Code:	R1908707-004	**Date Received:**	09/10/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D SIM	JMISIUREWICZ	JMISIUREWICZ
PFC/537M	KLMILLER	LDOMREIS

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D/		

Sample Name:	MW-24S Dup	**Date Collected:**	09/10/19
Lab Code:	R1908707-004.R01	**Date Received:**	09/10/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	Field Blank	**Date Collected:**	09/10/19
Lab Code:	R1908707-005	**Date Received:**	09/10/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
PFC/537M	KLMILLER	LDOMREIS

Sample Name:	Equipment Blank	**Date Collected:**	09/10/19
Lab Code:	R1908707-006	**Date Received:**	09/10/19
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8270D SIM	JMISIUREWICZ	JMISIUREWICZ
PFC/537M	KLMILLER	LDOMREIS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 12:40
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-13S	**Units:**	ug/L
Lab Code:	R1908707-001	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	**0.067**	0.040	0.027	1	09/17/19 12:59	9/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	90	64 - 124	09/17/19 12:59	

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:10
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	VE-12	**Units:**	ug/L
Lab Code:	R1908707-002	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	**590**	0.40	0.27	1	09/17/19 13:16	9/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	100	64 - 124	09/17/19 13:16	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:45
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-24S	**Units:**	ug/L
Lab Code:	R1908707-003	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	**0.035 J**	0.040	0.027	1	09/17/19 14:08	9/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	83	64 - 124	09/17/19 14:08	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:45
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-24S Dup	**Units:**	ug/L
Lab Code:	R1908707-004	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	**0.038 J**	0.040	0.027	1	09/17/19 14:26	9/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	92	64 - 124	09/17/19 14:26	

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 12:30
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	Equipment Blank	**Units:**	ug/L
Lab Code:	R1908707-006	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.027	1	09/17/19 14:44	9/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	91	64 - 124	09/17/19 14:44	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Extraction Method: EPA 3535A

Sample Name	Lab Code	1,4-Dioxane-d8 64-124
MW-13S	R1908707-001	90
VE-12	R1908707-002	100
MW-24S	R1908707-003	83
MW-24S Dup	R1908707-004	92
Equipment Blank	R1908707-006	91
Method Blank	RQ1910430-01	92
Lab Control Sample	RQ1910430-02	88
Duplicate Lab Control Sample	RQ1910430-03	95
VE-12 MS	RQ1910430-04	94
VE-12 DMS	RQ1910430-05	105

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19
Sample Matrix:	Water	**Date Received:**	09/10/19
		Date Analyzed:	09/17/19
		Date Extracted:	09/17/19

Duplicate Matrix Spike Summary
1,4-Dioxane by GC/MS

Sample Name:	VE-12	**Units:**	ug/L
Lab Code:	R1908707-002	**Basis:**	NA
Analysis Method:	8270D SIM		
Prep Method:	EPA 3535A		

		Matrix Spike RQ1910430-04			**Duplicate Matrix Spike** RQ1910430-05					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	590	665	101	70 #	726	101	130 #	33-146	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1910430-01	**Basis:**	NA

1,4-Dioxane by GC/MS

Analysis Method: 8270D SIM
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,4-Dioxane	0.040 U	0.040	0.027	1	09/17/19 12:06	9/17/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,4-Dioxane-d8	92	64 - 124	09/17/19 12:06	

Client: Xerox Corporation USA
Project: Bldg 801 Wells PFAS & 1,4-D
Sample Matrix: Water

Service Request: R1908707
Date Analyzed: 09/17/19

Duplicate Lab Control Sample Summary
1,4-Dioxane by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1910430-02			RQ1910430-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,4-Dioxane	8270D SIM	9.22	10.1	91	9.84	10.1	97	58-124	7	30

Subcontracted Analytical Parameters

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

September 25, 2019 **Analytical Report for Service Request No:** R1908707

Janice Jaeger
ALS Environmental
1565 Jefferson Rd, Building 300
Suite 360
Rochester, NY 14623

RE: Bldg 801 Wells PFAS & 1,4-D

Dear Janice Jaeger,

Enclosed are the results of the sample(s) submitted to our laboratory September 12, 2019
For your reference, these analyses have been assigned our service request number **R1908707.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 3275. You may also contact me via email at Chris.Leaf@ALSGlobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

for Chris Leaf
Project Manager

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Xerox Corporation USA
Project: Bldg 801 Wells PFAS & 1,4-D
Sample Matrix: Water

Service Request: R1908707
Date Received: 09/12/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Six water samples were received for analysis at ALS Environmental on 09/12/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organic LC:

Method PFC/537M, 09/19/2019:The upper control criterion was exceeded for Perfluorodecane sulfonic acid (PFDS), N-Ethyl perfluorooctane sulfonamidoacetic acid, and 8:2 Fluorotelomer sulfonic acid (8:2 FTS) in Continuing Calibration Verification (CCV) KQ1913393-01. The field samples analyzed in this sequence did not contain the analytes in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Method PFC/537M, 09/19/2019:The control criteria were exceeded for one or more surrogates in VE-12 DMS KQ1913122-02. The associated matrix spike recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier was flagged accordingly. No further corrective action was appropriate.

Method PFC/537M, 09/19/2019:The upper control criterion was exceeded for 13C3-PFBS and 18O2-PFHxS in sample MW-24S Dup. The associated native analyte were not detected above the Method Reporting Limit (MRL) in these samples. The error associated with an elevated recovery equated to a high bias. Assuming the native analytes performed similar to the labeled analogs, the effect on the reported results was minimal. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Method PFC/537M, 09/19/2019:The upper control criterion was exceeded 18O2-PFHxS in sample Field Blank. The associated native analyte were not detected above the Method Reporting Limit (MRL) in these samples. The error associated with an elevated recovery equated to a high bias. Assuming the native analytes performed similar to the labeled analogs, the effect on the reported results was minimal. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Method PFC/537M, 09/19/2019:The upper control criterion was exceeded 13C3-PFBS and 18O2-PFHxS in sample Equipment Blank. The associated native analyte were not detected above the Method Reporting Limit (MRL) in these samples. The error associated with an elevated recovery equated to a high bias. Assuming the native analytes performed similar to the labeled analogs, the effect on the reported results was minimal. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

Method PFC/537M, 09/19/2019:The matrix spike recovery of one or more analytes for sample VE-12 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential high bias in this matrix. No further corrective action was appropriate.

Method PFC/537M, 09/19/2019:The control criteria was exceeded for one or more isotope in Continuing Calibration Verifications (CCV) KQ1913393-01 and KQ1913623-01. The recoveries of the associated native analytes were within control criteria, which indicated the analysis was in control. No further corrective action was appropriate.

Approved by Noe D. Dan Date 09/25/2019

Chain of Custody

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Intra-Network Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Janice Jaeger

Project Name: Bldg 801 Wells PFAS & 1,4-D
Project Number:
Project Manager: [redacted]
Company: Xerox Corporation USA
QAP: LAB QAP

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	PFOA PFC/537M
~~R1908707-001~~	MW-13S	2	Water	9/10/19	1240	9/10/19	KELSO	IV
~~R1908707-002~~	VE-12	4	Water	9/10/19	1310	9/10/19	KELSO	IV
~~R1908707-003~~	MW-24S	2	Water	9/10/19	1345	9/10/19	KELSO	IV
~~R1908707-004~~	MW-24S Dup	↓	Water	9/10/19	1345	9/10/19	KELSO	IV
~~R1908707-005~~	Field Blank	1	Water	9/10/19	1220	9/10/19	KELSO	IV
~~R1908707-006~~	Equipment Blank	2	Water	9/10/19	1230	9/10/19	KELSO	IV

Test Comments

PFOA - PFC/537M R1908707-001,2,3,4,5,6 NY list of 21

Run QC on sample R1908707-002 for PFC/537M/PFOA

Special Instructions/Comments

pH Checked _____

Turnaround Requirements

_____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

X **STANDARD**

Requested FAX Date: _____

Requested Report Date: ~~09/20/19~~ 10/1/19

Report Requirements

____ I. Results Only

X II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

X IV. Data Validation Report with Raw Data

PQL/MDL/J Y

EDD Y

Invoice Information

PO# 58R1908707

Bill to

Relinquished By: [signature] 9/11/19/1400

Received By: [signature] 9/12/19 0945

Airbill Number: _____

R1908707

X **Ship To: KELSO**
ALS Environmental
1317 South 13th Avenue
Kelso, WA 98626

PC JMJ Date 9/11/19

SMO _____ Date _____

Instructions:

Ice _____

Dry Ice _____

No Ice _____

Shipping:

Overnight _____

2nd Day _____

Ground _____

Bill to Client Account _____

Comments:

PC_____

Cooler Receipt and Preservation Form

Client ALS Rochester Service Request ~~R19~~ 06 9/12 R190

Received: 9/12/19 Opened: 9/12/19 By: CG Unloaded: 9/12/19 By: CG

1. Samples were received via? *USPS* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 Front
   If present, were custody seals intact? (Y) N If present, were they signed and dated? Y (N)

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.5	0.8	/	/	+0.3	356	R1908707	4846 1683 4271	
-0.7	-0.8	/	/	-0.1	384	R1908674/R1908737	4282	

4. Packing material: *Inserts* (*Baggies*) *Bubble Wrap* *Gel Packs* (*Wet Ice*) *Dry Ice* *Sleeves*
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA (Y) N
   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

*otes, Discrepancies, & Resolutions:*_____

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 12:40
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-13S	**Units:**	ng/L
Lab Code:	R1908707-001	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	**1.5 J**	4.0	0.28	1	09/19/19 06:55	9/16/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.0	1.3	1	09/19/19 06:55	9/16/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.0	0.44	1	09/19/19 06:55	9/16/19	
Perfluorooctane sulfonic acid (PFOS)	**0.62 J**	1.6	0.44	1	09/19/19 06:55	9/16/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.0	0.30	1	09/19/19 06:55	9/16/19	*
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	**3.0 J**	4.0	0.40	1	09/19/19 06:55	9/16/19	
Perfluoropentanoic acid (PFPeA)	ND U	4.0	1.7	1	09/19/19 06:55	9/16/19	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	09/19/19 06:55	9/16/19	
Perfluoroheptanoic acid (PFHpA)	ND U	4.0	0.63	1	09/19/19 06:55	9/16/19	
Perfluorooctanoic acid (PFOA)	**0.49 J**	1.6	0.35	1	09/19/19 06:55	9/16/19	
Perfluorononanoic acid (PFNA)	ND U	4.0	1.1	1	09/19/19 06:55	9/16/19	
Perfluorodecanoic acid (PFDA)	ND U	4.0	1.2	1	09/19/19 06:55	9/16/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.0	1.5	1	09/19/19 06:55	9/16/19	
Perfluorododecanoic acid (PFDoDA)	ND U	4.0	1.3	1	09/19/19 06:55	9/16/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.0	1.3	1	09/19/19 06:55	9/16/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.0	2.0	1	09/19/19 06:55	9/16/19	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.0	0.52	1	09/19/19 06:55	9/16/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.0	1.4	1	09/19/19 06:55	9/16/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.0	0.50	1	09/19/19 06:55	9/16/19	*
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.0	0.55	1	09/19/19 06:55	9/16/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.0	0.15	1	09/19/19 06:55	9/16/19	*

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 12:40
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-13S	**Units:**	ng/L
Lab Code:	R1908707-001	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	99	20 - 109	09/19/19 06:55	
18O2-PFHxS	122	26 - 122	09/19/19 06:55	
13C4-PFOS	71	25 - 121	09/19/19 06:55	
13C4-PFBA	85	27 - 124	09/19/19 06:55	
13C5-PFPeA	79	27 - 138	09/19/19 06:55	
13C2-PFHxA	81	28 - 132	09/19/19 06:55	
13C4-PFHpA	111	19 - 139	09/19/19 06:55	
13C4-PFOA	84	22 - 130	09/19/19 06:55	
13C5-PFNA	71	20 - 127	09/19/19 06:55	
13C2-PFDA	80	24 - 125	09/19/19 06:55	
13C2-PFUnDA	69	22 - 125	09/19/19 06:55	
13C2-PFDoDA	66	19 - 122	09/19/19 06:55	
13C2-PFTeDA	47	13 - 124	09/19/19 06:55	
13C8-FOSA	80	18 - 109	09/19/19 06:55	
D3-MeFOSAA	58	9 - 123	09/19/19 06:55	
D5-EtFOSAA	65	12 - 126	09/19/19 06:55	
13C2-6:2 FTS	104	10 - 226	09/19/19 06:55	
13C2-8:2 FTS	86	10 - 202	09/19/19 06:55	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:10
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	VE-12	**Units:**	ng/L
Lab Code:	R1908707-002	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.0	0.28	1	09/19/19 07:06	9/16/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.0	1.3	1	09/19/19 07:06	9/16/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.0	0.44	1	09/19/19 07:06	9/16/19	
Perfluorooctane sulfonic acid (PFOS)	**5.1**	1.6	0.44	1	09/19/19 07:06	9/16/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.0	0.30	1	09/19/19 07:06	9/16/19	*
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	ND U	4.0	0.40	1	09/19/19 07:06	9/16/19	
Perfluoropentanoic acid (PFPeA)	**2.8 J**	4.0	1.7	1	09/19/19 07:06	9/16/19	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	09/19/19 07:06	9/16/19	
Perfluoroheptanoic acid (PFHpA)	**2.2 J**	4.0	0.63	1	09/19/19 07:06	9/16/19	
Perfluorooctanoic acid (PFOA)	**42**	1.6	0.35	1	09/19/19 07:06	9/16/19	
Perfluorononanoic acid (PFNA)	ND U	4.0	1.1	1	09/19/19 07:06	9/16/19	
Perfluorodecanoic acid (PFDA)	ND U	4.0	1.2	1	09/19/19 07:06	9/16/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.0	1.5	1	09/19/19 07:06	9/16/19	
Perfluorododecanoic acid (PFDoDA)	ND U	4.0	1.3	1	09/19/19 07:06	9/16/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.0	1.3	1	09/19/19 07:06	9/16/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.0	2.0	1	09/19/19 07:06	9/16/19	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.0	0.52	1	09/19/19 07:06	9/16/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.0	1.4	1	09/19/19 07:06	9/16/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.0	0.50	1	09/19/19 07:06	9/16/19	*
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.0	0.55	1	09/19/19 07:06	9/16/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.0	0.15	1	09/19/19 07:06	9/16/19	*

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:10
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	VE-12	**Units:**	ng/L
Lab Code:	R1908707-002	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	67	20 - 109	09/19/19 07:06	
18O2-PFHxS	70	26 - 122	09/19/19 07:06	
13C4-PFOS	46	25 - 121	09/19/19 07:06	
13C4-PFBA	58	27 - 124	09/19/19 07:06	
13C5-PFPeA	48	27 - 138	09/19/19 07:06	
13C2-PFHxA	48	28 - 132	09/19/19 07:06	
13C4-PFHpA	71	19 - 139	09/19/19 07:06	
13C4-PFOA	67	22 - 130	09/19/19 07:06	
13C5-PFNA	52	20 - 127	09/19/19 07:06	
13C2-PFDA	58	24 - 125	09/19/19 07:06	
13C2-PFUnDA	73	22 - 125	09/19/19 07:06	
13C2-PFDoDA	58	19 - 122	09/19/19 07:06	
13C2-PFTeDA	45	13 - 124	09/19/19 07:06	
13C8-FOSA	25	18 - 109	09/19/19 07:06	
D3-MeFOSAA	49	9 - 123	09/19/19 07:06	
D5-EtFOSAA	40	12 - 126	09/19/19 07:06	
13C2-6:2 FTS	93	10 - 226	09/19/19 07:06	
13C2-8:2 FTS	107	10 - 202	09/19/19 07:06	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:45
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-24S	**Units:**	ng/L
Lab Code:	R1908707-003	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.2	0.28	1	09/19/19 07:37	9/16/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.2	1.3	1	09/19/19 07:37	9/16/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.2	0.44	1	09/19/19 07:37	9/16/19	
Perfluorooctane sulfonic acid (PFOS)	**0.46 J**	1.7	0.44	1	09/19/19 07:37	9/16/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.2	0.30	1	09/19/19 07:37	9/16/19	*
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	**6.5**	4.2	0.40	1	09/19/19 07:37	9/16/19	
Perfluoropentanoic acid (PFPeA)	ND U	4.2	1.7	1	09/19/19 07:37	9/16/19	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	09/19/19 07:37	9/16/19	
Perfluoroheptanoic acid (PFHpA)	ND U	4.2	0.63	1	09/19/19 07:37	9/16/19	
Perfluorooctanoic acid (PFOA)	ND U	1.7	0.35	1	09/19/19 07:37	9/16/19	
Perfluorononanoic acid (PFNA)	ND U	4.2	1.1	1	09/19/19 07:37	9/16/19	
Perfluorodecanoic acid (PFDA)	ND U	4.2	1.2	1	09/19/19 07:37	9/16/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.2	1.5	1	09/19/19 07:37	9/16/19	
Perfluorododecanoic acid (PFDoDA)	ND U	4.2	1.3	1	09/19/19 07:37	9/16/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.2	1.3	1	09/19/19 07:37	9/16/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.2	2.0	1	09/19/19 07:37	9/16/19	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.2	0.52	1	09/19/19 07:37	9/16/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.2	1.4	1	09/19/19 07:37	9/16/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.2	0.50	1	09/19/19 07:37	9/16/19	*
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.2	0.55	1	09/19/19 07:37	9/16/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.2	0.15	1	09/19/19 07:37	9/16/19	*

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:45
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-24S	**Units:**	ng/L
Lab Code:	R1908707-003	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	97	20 - 109	09/19/19 07:37	
18O2-PFHxS	117	26 - 122	09/19/19 07:37	
13C4-PFOS	80	25 - 121	09/19/19 07:37	
13C4-PFBA	108	27 - 124	09/19/19 07:37	
13C5-PFPeA	77	27 - 138	09/19/19 07:37	
13C2-PFHxA	75	28 - 132	09/19/19 07:37	
13C4-PFHpA	97	19 - 139	09/19/19 07:37	
13C4-PFOA	79	22 - 130	09/19/19 07:37	
13C5-PFNA	74	20 - 127	09/19/19 07:37	
13C2-PFDA	88	24 - 125	09/19/19 07:37	
13C2-PFUnDA	84	22 - 125	09/19/19 07:37	
13C2-PFDoDA	83	19 - 122	09/19/19 07:37	
13C2-PFTeDA	78	13 - 124	09/19/19 07:37	
13C8-FOSA	69	18 - 109	09/19/19 07:37	
D3-MeFOSAA	63	9 - 123	09/19/19 07:37	
D5-EtFOSAA	62	12 - 126	09/19/19 07:37	
13C2-6:2 FTS	106	10 - 226	09/19/19 07:37	
13C2-8:2 FTS	149	10 - 202	09/19/19 07:37	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:45
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-24S Dup	**Units:**	ng/L
Lab Code:	R1908707-004	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.2	0.28	1	09/19/19 07:48	9/16/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.2	1.3	1	09/19/19 07:48	9/16/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.2	0.44	1	09/19/19 07:48	9/16/19	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.7	0.44	1	09/19/19 07:48	9/16/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.2	0.30	1	09/19/19 07:48	9/16/19	*
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	**6.0**	4.2	0.40	1	09/19/19 07:48	9/16/19	
Perfluoropentanoic acid (PFPeA)	ND U	4.2	1.7	1	09/19/19 07:48	9/16/19	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	09/19/19 07:48	9/16/19	
Perfluoroheptanoic acid (PFHpA)	ND U	4.2	0.63	1	09/19/19 07:48	9/16/19	
Perfluorooctanoic acid (PFOA)	ND U	1.7	0.35	1	09/19/19 07:48	9/16/19	
Perfluorononanoic acid (PFNA)	ND U	4.2	1.1	1	09/19/19 07:48	9/16/19	
Perfluorodecanoic acid (PFDA)	ND U	4.2	1.2	1	09/19/19 07:48	9/16/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.2	1.5	1	09/19/19 07:48	9/16/19	
Perfluorododecanoic acid (PFDoDA)	ND U	4.2	1.3	1	09/19/19 07:48	9/16/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.2	1.3	1	09/19/19 07:48	9/16/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.2	2.0	1	09/19/19 07:48	9/16/19	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.2	0.52	1	09/19/19 07:48	9/16/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.2	1.4	1	09/19/19 07:48	9/16/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.2	0.50	1	09/19/19 07:48	9/16/19	*
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.2	0.55	1	09/19/19 07:48	9/16/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.2	0.15	1	09/19/19 07:48	9/16/19	*

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:45
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-24S Dup	**Units:**	ng/L
Lab Code:	R1908707-004	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	114	20 - 109	09/19/19 07:48	*
18O2-PFHxS	123	26 - 122	09/19/19 07:48	*
13C4-PFOS	113	25 - 121	09/19/19 07:48	
13C4-PFBA	127	27 - 124	09/19/19 07:48	*
13C5-PFPeA	85	27 - 138	09/19/19 07:48	
13C2-PFHxA	107	28 - 132	09/19/19 07:48	
13C4-PFHpA	110	19 - 139	09/19/19 07:48	
13C4-PFOA	93	22 - 130	09/19/19 07:48	
13C5-PFNA	102	20 - 127	09/19/19 07:48	
13C2-PFDA	101	24 - 125	09/19/19 07:48	
13C2-PFUnDA	100	22 - 125	09/19/19 07:48	
13C2-PFDoDA	76	19 - 122	09/19/19 07:48	
13C2-PFTeDA	110	13 - 124	09/19/19 07:48	
13C8-FOSA	66	18 - 109	09/19/19 07:48	
D3-MeFOSAA	95	9 - 123	09/19/19 07:48	
D5-EtFOSAA	88	12 - 126	09/19/19 07:48	
13C2-6:2 FTS	111	10 - 226	09/19/19 07:48	
13C2-8:2 FTS	141	10 - 202	09/19/19 07:48	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 13:45
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	MW-24S Dup	**Units:**	ng/L
Lab Code:	R1908707-004	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	**5.3**	4.2	0.40	1	09/24/19 00:19	9/16/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C4-PFBA	99	27 - 124	09/24/19 00:19	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 12:20
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	Field Blank	**Units:**	ng/L
Lab Code:	R1908707-005	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.2	0.28	1	09/19/19 07:58	9/16/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.2	1.3	1	09/19/19 07:58	9/16/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.2	0.44	1	09/19/19 07:58	9/16/19	
Perfluorooctane sulfonic acid (PFOS)	**0.52 J**	1.7	0.44	1	09/19/19 07:58	9/16/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	4.2	0.30	1	09/19/19 07:58	9/16/19	*
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	ND U	4.2	0.40	1	09/19/19 07:58	9/16/19	
Perfluoropentanoic acid (PFPeA)	ND U	4.2	1.7	1	09/19/19 07:58	9/16/19	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	09/19/19 07:58	9/16/19	
Perfluoroheptanoic acid (PFHpA)	ND U	4.2	0.63	1	09/19/19 07:58	9/16/19	
Perfluorooctanoic acid (PFOA)	ND U	1.7	0.35	1	09/19/19 07:58	9/16/19	
Perfluorononanoic acid (PFNA)	ND U	4.2	1.1	1	09/19/19 07:58	9/16/19	
Perfluorodecanoic acid (PFDA)	ND U	4.2	1.2	1	09/19/19 07:58	9/16/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.2	1.5	1	09/19/19 07:58	9/16/19	
Perfluorododecanoic acid (PFDoDA)	ND U	4.2	1.3	1	09/19/19 07:58	9/16/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.2	1.3	1	09/19/19 07:58	9/16/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.2	2.0	1	09/19/19 07:58	9/16/19	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.2	0.52	1	09/19/19 07:58	9/16/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.2	1.4	1	09/19/19 07:58	9/16/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.2	0.50	1	09/19/19 07:58	9/16/19	*
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.2	0.55	1	09/19/19 07:58	9/16/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.2	0.15	1	09/19/19 07:58	9/16/19	*

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 12:20
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	Field Blank	**Units:**	ng/L
Lab Code:	R1908707-005	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	98	20 - 109	09/19/19 07:58	
18O2-PFHxS	139	26 - 122	09/19/19 07:58	*
13C4-PFOS	108	25 - 121	09/19/19 07:58	
13C4-PFBA	97	27 - 124	09/19/19 07:58	
13C5-PFPeA	81	27 - 138	09/19/19 07:58	
13C2-PFHxA	98	28 - 132	09/19/19 07:58	
13C4-PFHpA	124	19 - 139	09/19/19 07:58	
13C4-PFOA	94	22 - 130	09/19/19 07:58	
13C5-PFNA	98	20 - 127	09/19/19 07:58	
13C2-PFDA	101	24 - 125	09/19/19 07:58	
13C2-PFUnDA	88	22 - 125	09/19/19 07:58	
13C2-PFDoDA	83	19 - 122	09/19/19 07:58	
13C2-PFTeDA	94	13 - 124	09/19/19 07:58	
13C8-FOSA	88	18 - 109	09/19/19 07:58	
D3-MeFOSAA	84	9 - 123	09/19/19 07:58	
D5-EtFOSAA	89	12 - 126	09/19/19 07:58	
13C2-6:2 FTS	101	10 - 226	09/19/19 07:58	
13C2-8:2 FTS	105	10 - 202	09/19/19 07:58	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 12:30
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	Equipment Blank	**Units:**	ng/L
Lab Code:	R1908707-006	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	4.5	0.28	1	09/19/19 08:09	9/16/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	4.5	1.3	1	09/19/19 08:09	9/16/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	4.5	0.44	1	09/19/19 08:09	9/16/19	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.8	0.44	1	09/19/19 08:09	9/16/19	
Perfluorodecane sulfonic acid (PFDS)	**0.40 J**	4.5	0.30	1	09/19/19 08:09	9/16/19	*
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	ND U	4.5	0.40	1	09/19/19 08:09	9/16/19	
Perfluoropentanoic acid (PFPeA)	ND U	4.5	1.7	1	09/19/19 08:09	9/16/19	
Perfluorohexanoic acid (PFHxA)	ND U	9.2	8.8	1	09/19/19 08:09	9/16/19	
Perfluoroheptanoic acid (PFHpA)	ND U	4.5	0.63	1	09/19/19 08:09	9/16/19	
Perfluorooctanoic acid (PFOA)	ND U	1.8	0.35	1	09/19/19 08:09	9/16/19	
Perfluorononanoic acid (PFNA)	ND U	4.5	1.1	1	09/19/19 08:09	9/16/19	
Perfluorodecanoic acid (PFDA)	ND U	4.5	1.2	1	09/19/19 08:09	9/16/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	4.5	1.5	1	09/19/19 08:09	9/16/19	
Perfluorododecanoic acid (PFDoDA)	ND U	4.5	1.3	1	09/19/19 08:09	9/16/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	4.5	1.3	1	09/19/19 08:09	9/16/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	4.5	2.0	1	09/19/19 08:09	9/16/19	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	4.5	0.52	1	09/19/19 08:09	9/16/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	4.5	1.4	1	09/19/19 08:09	9/16/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	4.5	0.50	1	09/19/19 08:09	9/16/19	*
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	4.5	0.55	1	09/19/19 08:09	9/16/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	4.5	0.15	1	09/19/19 08:09	9/16/19	*

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19 12:30
Sample Matrix:	Water	**Date Received:**	09/10/19 14:30
Sample Name:	Equipment Blank	**Units:**	ng/L
Lab Code:	R1908707-006	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	119	20 - 109	09/19/19 08:09	*
18O2-PFHxS	131	26 - 122	09/19/19 08:09	*
13C4-PFOS	118	25 - 121	09/19/19 08:09	
13C4-PFBA	116	27 - 124	09/19/19 08:09	
13C5-PFPeA	95	27 - 138	09/19/19 08:09	
13C2-PFHxA	114	28 - 132	09/19/19 08:09	
13C4-PFHpA	131	19 - 139	09/19/19 08:09	
13C4-PFOA	93	22 - 130	09/19/19 08:09	
13C5-PFNA	107	20 - 127	09/19/19 08:09	
13C2-PFDA	105	24 - 125	09/19/19 08:09	
13C2-PFUnDA	97	22 - 125	09/19/19 08:09	
13C2-PFDoDA	71	19 - 122	09/19/19 08:09	
13C2-PFTeDA	94	13 - 124	09/19/19 08:09	
13C8-FOSA	75	18 - 109	09/19/19 08:09	
D3-MeFOSAA	104	9 - 123	09/19/19 08:09	
D5-EtFOSAA	111	12 - 126	09/19/19 08:09	
13C2-6:2 FTS	127	10 - 226	09/19/19 08:09	
13C2-8:2 FTS	129	10 - 202	09/19/19 08:09	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ1913122-06	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids							
Perfluorobutane sulfonic acid (PFBS)	ND U	5.0	0.28	1	09/19/19 06:34	9/16/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	5.0	1.3	1	09/19/19 06:34	9/16/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	5.0	0.44	1	09/19/19 06:34	9/16/19	
Perfluorooctane sulfonic acid (PFOS)	**0.66 J**	2.0	0.44	1	09/19/19 06:34	9/16/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	5.0	0.30	1	09/19/19 06:34	9/16/19	
Perfluoroalkane Carboxylic Acids							
Perfluorobutanoic acid (PFBA)	ND U	5.0	0.40	1	09/19/19 06:34	9/16/19	
Perfluoropentanoic acid (PFPeA)	ND U	5.0	1.7	1	09/19/19 06:34	9/16/19	
Perfluorohexanoic acid (PFHxA)	ND U	10	8.8	1	09/19/19 06:34	9/16/19	
Perfluoroheptanoic acid (PFHpA)	ND U	5.0	0.63	1	09/19/19 06:34	9/16/19	
Perfluorooctanoic acid (PFOA)	ND U	2.0	0.35	1	09/19/19 06:34	9/16/19	
Perfluorononanoic acid (PFNA)	ND U	5.0	1.1	1	09/19/19 06:34	9/16/19	
Perfluorodecanoic acid (PFDA)	ND U	5.0	1.2	1	09/19/19 06:34	9/16/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	5.0	1.5	1	09/19/19 06:34	9/16/19	
Perfluorododecanoic acid (PFDoDA)	ND U	5.0	1.3	1	09/19/19 06:34	9/16/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	5.0	1.3	1	09/19/19 06:34	9/16/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	5.0	2.0	1	09/19/19 06:34	9/16/19	
Perfluoroalkyl Sulfonamides							
Perfluorooctane sulfonamide (FOSA)	ND U	5.0	0.52	1	09/19/19 06:34	9/16/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	5.0	1.4	1	09/19/19 06:34	9/16/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	5.0	0.50	1	09/19/19 06:34	9/16/19	
(n:2) Fluorotelomer Sulfonic Acids							
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	5.0	0.55	1	09/19/19 06:34	9/16/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	5.0	0.15	1	09/19/19 06:34	9/16/19	

Analytical Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/L
Lab Code:	KQ1913122-06	**Basis:**	NA

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3535A

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	104	20 - 109	09/19/19 06:34	
18O2-PFHxS	110	26 - 122	09/19/19 06:34	
13C4-PFOS	94	25 - 121	09/19/19 06:34	
13C4-PFBA	90	27 - 124	09/19/19 06:34	
13C5-PFPeA	88	27 - 138	09/19/19 06:34	
13C2-PFHxA	106	28 - 132	09/19/19 06:34	
13C4-PFHpA	114	19 - 139	09/19/19 06:34	
13C4-PFOA	98	22 - 130	09/19/19 06:34	
13C5-PFNA	104	20 - 127	09/19/19 06:34	
13C2-PFDA	96	24 - 125	09/19/19 06:34	
13C2-PFUnDA	94	22 - 125	09/19/19 06:34	
13C2-PFDoDA	77	19 - 122	09/19/19 06:34	
13C2-PFTeDA	86	13 - 124	09/19/19 06:34	
13C8-FOSA	87	18 - 109	09/19/19 06:34	
D3-MeFOSAA	84	9 - 123	09/19/19 06:34	
D5-EtFOSAA	98	12 - 126	09/19/19 06:34	
13C2-6:2 FTS	117	10 - 226	09/19/19 06:34	
13C2-8:2 FTS	126	10 - 202	09/19/19 06:34	

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D/
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Surrogate	Control Limits	MW-13S R1908707-001	VE-12 R1908707-002	MW-24S R1908707-003
13C3-PFBS	20-109	99	67	97
18O2-PFHxS	26-122	122	70	117
13C4-PFOS	25-121	71	46	80
13C4-PFBA	27-124	85	58	108
13C5-PFPeA	27-138	79	48	77
13C2-PFHxA	28-132	81	48	75
13C4-PFHpA	19-139	111	71	97
13C4-PFOA	22-130	84	67	79
13C5-PFNA	20-127	71	52	74
13C2-PFDA	24-125	80	58	88
13C2-PFUnDA	22-125	69	73	84
13C2-PFDoDA	19-122	66	58	83
13C2-PFTeDA	13-124	47	45	78
13C8-FOSA	18-109	80	25	69
D3-MeFOSAA	9-123	58	49	63
D5-EtFOSAA	12-126	65	40	62
13C2-6:2 FTS	10-226	104	93	106
13C2-8:2 FTS	10-202	86	107	149

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D/
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Surrogate	Control Limits	MW-24S Dup R1908707-004	MW-24S Dup R1908707-004	Field Blank R1908707-005
13C3-PFBS	20-109	114*		98
18O2-PFHxS	26-122	123*		139*
13C4-PFOS	25-121	113		108
13C4-PFBA	27-124	127*	99	97
13C5-PFPeA	27-138	85		81
13C2-PFHxA	28-132	107		98
13C4-PFHpA	19-139	110		124
13C4-PFOA	22-130	93		94
13C5-PFNA	20-127	102		98
13C2-PFDA	24-125	101		101
13C2-PFUnDA	22-125	100		88
13C2-PFDoDA	19-122	76		83
13C2-PFTeDA	13-124	110		94
13C8-FOSA	18-109	66		88
D3-MeFOSAA	9-123	95		84
D5-EtFOSAA	12-126	88		89
13C2-6:2 FTS	10-226	111		101
13C2-8:2 FTS	10-202	141		105

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D/
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Surrogate	Control Limits	Equipment Blank R1908707-006	Method Blank KQ1913122-06	Lab Control Sample KQ1913122-05
13C3-PFBS	20-109	119*	104	84
18O2-PFHxS	26-122	131*	110	112
13C4-PFOS	25-121	118	94	80
13C4-PFBA	27-124	116	90	77
13C5-PFPeA	27-138	95	88	73
13C2-PFHxA	28-132	114	106	74
13C4-PFHpA	19-139	131	114	110
13C4-PFOA	22-130	93	98	78
13C5-PFNA	20-127	107	104	77
13C2-PFDA	24-125	105	96	79
13C2-PFUnDA	22-125	97	94	84
13C2-PFDoDA	19-122	71	77	62
13C2-PFTeDA	13-124	94	86	76
13C8-FOSA	18-109	75	87	67
D3-MeFOSAA	9-123	104	84	72
D5-EtFOSAA	12-126	111	98	78
13C2-6:2 FTS	10-226	127	117	104
13C2-8:2 FTS	10-202	129	126	95

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D/
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3535A

Surrogate	Control Limits	VE-12 KQ1913122-01	VE-12 KQ1913122-02
13C3-PFBS	20-109	102	137*
18O2-PFHxS	26-122	101	165*
13C4-PFOS	25-121	80	92
13C4-PFBA	27-124	79	126*
13C5-PFPeA	27-138	66	93
13C2-PFHxA	28-132	59	72
13C4-PFHpA	19-139	108	178*
13C4-PFOA	22-130	85	114
13C5-PFNA	20-127	84	107
13C2-PFDA	24-125	96	155*
13C2-PFUnDA	22-125	88	76
13C2-PFDoDA	19-122	66	92
13C2-PFTeDA	13-124	58	78
13C8-FOSA	18-109	33	52
D3-MeFOSAA	9-123	55	64
D5-EtFOSAA	12-126	78	103
13C2-6:2 FTS	10-226	138	166
13C2-8:2 FTS	10-202	149	164

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Xerox Corporation USA **Service Request:**R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Date Analyzed:**09/19/19 06:14

Internal Standard Area and RT SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\190917_b9\190917_224 **Lab Code:**KQ1913393-01
Instrument ID: K-LCMS-06 **Analysis Lot:**651768
Analysis Method: PFC/537M **Signal ID:**1

		13C7-PFUnDA	
		Area	**RT**
	Result ==>	4,484,730	5.122
	Upper Limit ==>	8,969,460	6.12
	Lower Limit ==>	2,242,365	4.12
Associated Analyses			
Continuing Calibration Blank	KQ1913393-02	5253202	5.120
Method Blank	KQ1913122-06	5901170	5.110
Lab Control Sample	KQ1913122-05	6875846	5.115
MW-13S	R1908707-001	5558244	5.119
VE-12	R1908707-002	6516786	5.118
VE-12MS	KQ1913122-01	5385511	5.116
VE-12DMS	KQ1913122-02	3570084	5.123
MW-24S	R1908707-003	4924886	5.118
MW-24S Dup	R1908707-004	4326946	5.116
Field Blank	R1908707-005	4581738	5.118
Equipment Blank	R1908707-006	3683259	5.116

Client: Xerox Corporation USA **Service Request:**R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Date Analyzed:**09/23/19 23:46

Internal Standard Area and RT SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

File ID: J:\LCMS06\Data\190923_b2\190923_022 **Lab Code:**KQ1913623-01
Instrument ID: K-LCMS-06 **Analysis Lot:**652554
Analysis Method: PFC/537M **Signal ID:**1

	13C7-PFUnDA	
	Area	**RT**
Result ==>	6,779,033	5.123
Upper Limit ==>	13,558,066	6.12
Lower Limit ==>	3,389,517	4.12

Associated Analyses

Continuing Calibration Blank	KQ1913623-02	7924519	5.128
MW-24S Dup	R1908707-004	6928726	5.123

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Collected:**	09/10/19
Sample Matrix:	Water	**Date Received:**	09/10/19
		Date Analyzed:	09/19/19
		Date Extracted:	09/16/19

Duplicate Matrix Spike Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	VE-12	**Units:**	ng/L
Lab Code:	R1908707-002	**Basis:**	NA
Analysis Method:	PFC/537M		
Prep Method:	EPA 3535A		

		Matrix Spike			Duplicate Matrix Spike					
		KQ1913122-01			KQ1913122-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perfluorobutane sulfonic acid (PFBS)	ND U	29.7	23.7	126	29.7	23.3	128	61-140	<1	30
Perfluorohexane sulfonic acid (PFHxS)	ND U	33.4	24.3	137	28.4	23.9	118	69-144	16	30
Perfluoroheptane sulfonic acid (PFHpS)	ND U	30.0	25.4	118	22.6	25.0	90	62-178	28	30
Perfluorooctane sulfonic acid (PFOS)	5.1	39.2	24.8	138	41.6	24.4	150 *	71-139	6	30
Perfluorodecane sulfonic acid (PFDS)	ND U	28.1	25.7	109	37.5	25.3	148 *	69-146	29	30
Perfluorobutanoic acid (PFBA)	ND U	16.8	26.7	63	16.9	26.2	65	51-157	<1	30
Perfluoropentanoic acid (PFPeA)	2.8 J	32.7	26.7	112	32.7	26.2	114	67-127	<1	30
Perfluorohexanoic acid (PFHxA)	ND U	31.1	26.7	117	31.9	26.2	122	71-138	3	30
Perfluoroheptanoic acid (PFHpA)	2.2 J	28.0	26.7	97	30.2	26.2	107	72-133	7	30
Perfluorooctanoic acid (PFOA)	42	77.7	26.7	135	79.8	26.2	145	74-146	3	30
Perfluorononanoic acid (PFNA)	ND U	32.4	26.7	122	32.7	26.2	125	69-148	<1	30
Perfluorodecanoic acid (PFDA)	ND U	31.9	26.7	119	33.2	26.2	127	73-136	4	30
Perfluoroundecanoic acid (PFUnDA)	ND U	34.8	26.7	130	33.5	26.2	128	76-134	4	30
Perfluorododecanoic acid (PFDoDA)	ND U	33.5	26.7	125	38.8	26.2	148 *	71-138	15	30
Perfluorotridecanoic acid (PFTrDA)	ND U	25.7	26.7	96	27.4	26.2	104	65-140	6	30
Perfluorotetradecanoic acid (PFTeDA)	ND U	33.8	26.7	127	30.1	26.2	115	63-139	12	30
Perfluorooctane sulfonamide (FOSA)	ND U	29.5	26.7	110	26.9	26.2	103	64-135	9	30
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	51.1	26.7	191 *	35.2	26.2	134	69-151	37*	30
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	33.8	26.7	127	38.7	26.2	147	58-155	13	30
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	28.1	25.4	111	26.8	24.9	108	71-142	5	30
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	30.3	25.6	118	27.7	25.2	110	69-137	9	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Analyzed:**	09/19/19
Sample Matrix:	Water	**Date Extracted:**	09/16/19

Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Units:**	ng/L
Prep Method:	EPA 3535A	**Basis:**	NA
		Analysis Lot:	651768

Lab Control Sample
KQ1913122-05

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	32.4	30.4	106	71-142
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	34.5	30.7	112	69-137
N-Ethyl perfluorooctane sulfonamidoacetic acid	30.6	32.0	96	58-155
N-Methyl perfluorooctane sulfonamidoacetic acid	38.6	32.0	121	69-151
Perfluorobutane sulfonic acid (PFBS)	34.8	28.4	123	61-140
Perfluorobutanoic acid (PFBA)	42.0	32.0	131	51-157
Perfluorodecane sulfonic acid (PFDS)	37.6	30.9	122	69-146
Perfluorodecanoic acid (PFDA)	40.5	32.0	127	73-136
Perfluorododecanoic acid (PFDoDA)	43.6	32.0	136	71-138
Perfluoroheptane sulfonic acid (PFHpS)	31.5	30.5	103	62-178
Perfluoroheptanoic acid (PFHpA)	33.5	32.0	105	72-133
Perfluorohexane sulfonic acid (PFHxS)	34.7	29.2	119	69-144
Perfluorohexanoic acid (PFHxA)	35.4	32.0	111	71-138
Perfluorononanoic acid (PFNA)	40.9	32.0	128	69-148
Perfluorooctane sulfonamide (FOSA)	33.4	32.0	104	64-135
Perfluorooctane sulfonic acid (PFOS)	37.4	29.7	126	71-139
Perfluorooctanoic acid (PFOA)	41.6	32.0	130	74-146
Perfluoropentanoic acid (PFPeA)	36.9	32.0	115	67-127
Perfluorotetradecanoic acid (PFTeDA)	36.0	32.0	112	63-139
Perfluorotridecanoic acid (PFTrDA)	31.5	32.0	98	65-140
Perfluoroundecanoic acid (PFUnDA)	40.6	32.0	127	76-134

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Analyzed:**	09/19/19 06:34
Sample Matrix:	Water	**Date Extracted:**	09/16/19

Method Blank Summary

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Method Blank	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ1913122-06	**File ID:**	J:\LCMS06\Data\190917_b9\190917_226
Analysis Method:	PFC/537M	**Analysis Lot:**	651768,652554
Prep Method:	EPA 3535A	**Extraction Lot:**	344503

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ1913122-05	J:\LCMS06\Data\190917_b9\190917_227	09/19/19 06:45
MW-13S	R1908707-001	J:\LCMS06\Data\190917_b9\190917_228	09/19/19 06:55
VE-12	R1908707-002	J:\LCMS06\Data\190917_b9\190917_229	09/19/19 07:06
VE-12MS	KQ1913122-01	J:\LCMS06\Data\190917_b9\190917_230	09/19/19 07:16
VE-12DMS	KQ1913122-02	J:\LCMS06\Data\190917_b9\190917_231	09/19/19 07:27
MW-24S	R1908707-003	J:\LCMS06\Data\190917_b9\190917_232	09/19/19 07:37
MW-24S Dup	R1908707-004	J:\LCMS06\Data\190917_b9\190917_233	09/19/19 07:48
Field Blank	R1908707-005	J:\LCMS06\Data\190917_b9\190917_234	09/19/19 07:58
Equipment Blank	R1908707-006	J:\LCMS06\Data\190917_b9\190917_235	09/19/19 08:09
MW-24S Dup	R1908707-004	J:\LCMS06\Data\190923_b2\190923_025	09/24/19 00:19

ALS Group USA, Corp.
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QA/QC Report

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Analyzed:**	09/19/19 06:45
Sample Matrix:	Water	**Date Extracted:**	09/16/19

Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	K-LCMS-06
Lab Code:	KQ1913122-05	**File ID:**	J:\LCMS06\Data\190917_b9\190917_227
Analysis Method:	PFC/537M	**Analysis Lot:**	651768,652554
Prep Method:	EPA 3535A	**Extraction Lot:**	344503

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ1913122-06	J:\LCMS06\Data\190917_b9\190917_226	09/19/19 06:34
MW-13S	R1908707-001	J:\LCMS06\Data\190917_b9\190917_228	09/19/19 06:55
VE-12	R1908707-002	J:\LCMS06\Data\190917_b9\190917_229	09/19/19 07:06
VE-12MS	KQ1913122-01	J:\LCMS06\Data\190917_b9\190917_230	09/19/19 07:16
VE-12DMS	KQ1913122-02	J:\LCMS06\Data\190917_b9\190917_231	09/19/19 07:27
MW-24S	R1908707-003	J:\LCMS06\Data\190917_b9\190917_232	09/19/19 07:37
MW-24S Dup	R1908707-004	J:\LCMS06\Data\190917_b9\190917_233	09/19/19 07:48
Field Blank	R1908707-005	J:\LCMS06\Data\190917_b9\190917_234	09/19/19 07:58
Equipment Blank	R1908707-006	J:\LCMS06\Data\190917_b9\190917_235	09/19/19 08:09
MW-24S Dup	R1908707-004	J:\LCMS06\Data\190923_b2\190923_025	09/24/19 00:19

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC1900381-01	0.05 PPB ICAL	190917_006	09/17/2019 15:51
02	KC1900381-02	0.10 PPB ICAL	190917_007	09/17/2019 16:02
03	KC1900381-03	0.50 PPB ICAL	190917_008	09/17/2019 16:12
04	KC1900381-04	1.0 PPB ICAL	190917_009	09/17/2019 16:23
07	KC1900381-07	5.0 PPB ICAL	190917_010	09/17/2019 16:33
05	KC1900381-05	10.0 PPB ICAL	190917_011	09/17/2019 16:44
06	KC1900381-06	15.0 PPB ICAL	190917_012	09/17/2019 16:55

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.09157	02	5.0000	0.06313	03	5.0000	0.08858	04	5.0000	0.06174
05	5.0000	0.05748	06	5.0000	0.08697	07	5.0000	0.07156			

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.05661	02	5.0000	0.04632	03	5.0000	0.04733	04	5.0000	0.04159
05	5.0000	0.04309	06	5.0000	0.05876	07	5.0000	0.04668			

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.7985	02	5.0000	0.5514	03	5.0000	0.8706	04	5.0000	0.6145
05	5.0000	0.5716	06	5.0000	0.7002	07	5.0000	0.8292			

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.07	02	5.0000	0.9218	03	5.0000	0.9265	04	5.0000	0.8827
05	5.0000	0.8927	06	5.0000	1.094	07	5.0000	0.9451			

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.182	02	5.0000	1.124	03	5.0000	1.081	04	5.0000	1.114
05	5.0000	0.9405	06	5.0000	1.175	07	5.0000	1.159			

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.9072	02	5.0000	0.6118	03	5.0000	0.843	04	5.0000	0.6913
05	5.0000	0.6532	06	5.0000	0.8552	07	5.0000	0.7825			

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.8391	02	5.0000	0.819	03	5.0000	0.7692	04	5.0000	0.7539
05	5.0000	0.7739	06	5.0000	0.8402	07	5.0000	0.7526			

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.2441	02	5.0000	0.1822	03	5.0000	0.2408	04	5.0000	0.226

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5.0000	0.2293	06	5.0000	0.229	07	5.0000	0.2755			

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.047	02	5.0000	0.8016	03	5.0000	0.974	04	5.0000	0.7641
05	5.0000	0.7857	06	5.0000	1.035	07	5.0000	0.9421			

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.7618	02	5.0000	0.6763	03	5.0000	0.7916	04	5.0000	0.8185
05	5.0000	0.6755	06	5.0000	0.7165	07	5.0000	0.8191			

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.317	02	5.0000	1.192	03	5.0000	1.335	04	5.0000	1.073
05	5.0000	1.043	06	5.0000	1.211	07	5.0000	1.302			

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1813	02	5.0000	0.1355	03	5.0000	0.2015	04	5.0000	0.133
05	5.0000	0.1427	06	5.0000	0.1789	07	5.0000	0.2006			

13C5-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.016	02	5.0000	0.7355	03	5.0000	1.026	04	5.0000	0.6603
05	5.0000	0.6763	06	5.0000	0.9267	07	5.0000	0.9256			

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.5374	02	5.0000	0.4095	03	5.0000	0.4929	04	5.0000	0.3935
05	5.0000	0.3907	06	5.0000	0.5223	07	5.0000	0.4798			

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4522	02	5.0000	0.3984	03	5.0000	0.4348	04	5.0000	0.3486
05	5.0000	0.3488	06	5.0000	0.5214	07	5.0000	0.4118			

18O2-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1091	02	5.0000	0.1202	03	5.0000	0.1097	04	5.0000	0.1236
05	5.0000	0.1089	06	5.0000	0.112	07	5.0000	0.1215			

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0476	1.327	02	0.0951	1.074	03	0.4756	1.045	04	0.9512	1.057
07	4.7558	1.011	05	9.5117	0.9509	06	14.2676	0.9157			

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0480	0.8007	02	0.0960	0.6912	03	0.4800	0.8324	04	0.9600	0.6487
07	4.8002	0.7992	05	9.6004	0.5325	06	14.4007	0.6254			

D3-MeFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.08651	02	5.0000	0.06871	03	5.0000	0.08124	04	5.0000	0.06421
05	5.0000	0.07161	06	5.0000	0.09353	07	5.0000	0.07895			

D5-EtFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.07694	02	5.0000	0.06896	03	5.0000	0.06939	04	5.0000	0.06151
05	5.0000	0.06393	06	5.0000	0.08304	07	5.0000	0.07364			

N-Ethyl perfluorooctane sulfonamidoacetic acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.3895	02	0.1000	0.3729	03	0.5000	0.5596	04	1.0000	0.4405
07	5.0000	0.5043	05	10.0000	0.4559	06	15.0000	0.5598			

N-Methyl perfluorooctane sulfonamidoacetic acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.1000	0.8031	03	0.5000	0.6231	04	1.0000	0.7026	07	5.0000	0.6445
05	10.0000	0.5344	06	15.0000	0.6289						

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0444	1.153	02	0.0887	1.235	03	0.4437	0.9547	04	0.8874	0.9667
07	4.4368	0.9501	05	8.8737	0.9116	06	13.3106	0.9318			

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.7956	02	0.1000	0.8152	03	0.5000	0.7685	04	1.0000	0.7788
07	5.0000	0.7753	05	10.0000	0.7515	06	15.0000	0.7727			

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0482	0.8567	02	0.0965	0.6079	03	0.4823	0.6468	04	0.9647	0.7012
07	4.8233	0.637	05	9.6467	0.573	06	14.4700	0.7852			

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.951	02	0.1000	0.9103	03	0.5000	0.8338	04	1.0000	0.78
07	5.0000	0.7776	05	10.0000	0.7707	06	15.0000	0.75			

Perfluorododecanoic acid (PFDoDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.1000	0.3986	03	0.5000	0.4871	04	1.0000	0.4845	07	5.0000	0.541
05	10.0000	0.5092	06	15.0000	0.5132						

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	0.0953	1.397	03	0.4767	1.788	04	0.9534	1.307	07	4.7672	1.465
05	9.5344	1.41	06	14.3016	1.878						

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.306	02	0.1000	1.22	03	0.5000	0.9818	04	1.0000	0.9475
07	5.0000	0.9921	05	10.0000	0.9983	06	15.0000	0.9706			

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0457	1.788	02	0.0913	1.834	03	0.4565	1.351	04	0.9131	1.319
07	4.5654	1.169	05	9.1308	1.117	06	13.6961	1.226			

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.397	02	0.1000	1.072	03	0.5000	1.018	04	1.0000	0.967
07	5.0000	0.9595	05	10.0000	0.9523	06	15.0000	0.9915			

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.2	02	0.1000	1.052	03	0.5000	0.8943	04	1.0000	0.7862
07	5.0000	0.7951	05	10.0000	0.7902	06	15.0000	0.8433			

Perfluorooctane sulfonamide (FOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.488	02	0.1000	1.277	03	0.5000	1.177	04	1.0000	1.198
07	5.0000	1.155	05	10.0000	1.18	06	15.0000	1.172			

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0465	0.7395	02	0.0929	0.7543	03	0.4646	0.6711	04	0.9292	0.6781
07	4.6461	0.6264	05	9.2923	0.6569	06	13.9384	0.6759			

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.25	02	0.1000	0.9574	03	0.5000	0.8455	04	1.0000	0.8338
07	5.0000	0.8326	05	10.0000	0.8431	06	15.0000	0.844			

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	5.881	02	0.1000	3.804	03	0.5000	2.102	04	1.0000	1.988
07	5.0000	1.812	05	10.0000	1.776	06	15.0000	1.777			

Perfluorotetradecanoic acid (PFTeDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.495	02	0.1000	1.065	03	0.5000	0.5403	04	1.0000	0.4737
07	5.0000	0.4023	05	10.0000	0.4112	06	15.0000	0.4041			

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.031	02	0.1000	1.062	03	0.5000	0.962	04	1.0000	0.95
07	5.0000	0.9483	05	10.0000	0.9794	06	15.0000	0.9963			

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.9509	02	0.1000	0.7762	03	0.5000	0.6217	04	1.0000	0.6723
07	5.0000	0.6855	05	10.0000	0.6651	06	15.0000	0.6581			

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
13C2-6:2 FTS	SURR	Average RF	% RSD	19.3	≤20	0.07443	
13C2-8:2 FTS	SURR	Average RF	% RSD	13.5	≤20	0.04863	
13C2-PFDA	SURR	Average RF	% RSD	18.4	≤20	0.7051	
13C2-PFDoDA	SURR	Average RF	% RSD	8.8	≤20	0.9618	
13C2-PFHxA	SURR	Average RF	% RSD	7.5	≤20	1.111	
13C2-PFTeDA	SURR	Average RF	% RSD	14.8	≤20	0.7635	
13C2-PFUnDA	SURR	Average RF	% RSD	4.9	≤20	0.7926	
13C3-PFBS	SURR	Average RF	% RSD	12.0	≤20	0.2324	
13C4-PFBA	SURR	Average RF	% RSD	13.4	≤20	0.9072	
13C4-PFHpA	SURR	Average RF	% RSD	8.3	≤20	0.7513	
13C4-PFOA	SURR	Average RF	% RSD	9.7	≤20	1.21	
13C4-PFOS	SURR	Average RF	% RSD	17.9	≤20	0.1676	
13C5-PFNA	SURR	Average RF	% RSD	18.5	≤20	0.8525	
13C5-PFPeA	SURR	Average RF	% RSD	13.5	≤20	0.4609	
13C8-FOSA	SURR	Average RF	% RSD	14.6	≤20	0.4166	
18O2-PFHxS	SURR	Average RF	% RSD	5.6	≤20	0.115	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	12.7	≤20	1.054	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	15.7	≤20	0.7043	
D3-MeFOSAA	SURR	Average RF	% RSD	13.3	≤20	0.07782	
D5-EtFOSAA	SURR	Average RF	% RSD	10.5	≤20	0.07106	
N-Ethyl perfluorooctane sulfonamidoacetic acid	TRG	Average RF	% RSD	16.1	≤20	0.4689	
N-Methyl perfluorooctane sulfonamidoacetic acid	TRG	Average RF	% RSD	13.7	≤20	0.6561	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	12.4	≤20	1.015	
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	2.6	≤20	0.7797	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	14.8	≤20	0.6868	
Perfluorodecanoic acid (PFDA)	TRG	Linear	R2	0.9986	≥0.99	0.8247	
Perfluorododecanoic acid (PFDoDA)	TRG	Linear	R2	0.9994	≥0.99	0.489	
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	15.2	≤20	1.541	
Perfluoroheptanoic acid (PFHpA)	TRG	Linear	R2	0.9981	≥0.99	1.059	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Linear	R2	0.9977	≥0.99	1.401	
Perfluorohexanoic acid (PFHxA)	TRG	Linear	R2	0.9976	≥0.99	1.051	

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluorononanoic acid (PFNA)	TRG	Linear	R2	0.9976	≥0.99	0.9088	
Perfluorooctane sulfonamide (FOSA)	TRG	Average RF	% RSD	9.6	≤20	1.236	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	6.6	≤20	0.686	
Perfluorooctanoic acid (PFOA)	TRG	Linear	R2	0.9981	≥0.99	0.9153	
Perfluoropentanoic acid (PFPeA)	TRG	Linear	R2	1.0000	≥0.99	2.734	
Perfluorotetradecanoic acid (PFTeDA)	TRG	Linear	R2	0.9996	≥0.99	0.6845	
Perfluorotridecanoic acid (PFTrDA)	TRG	Linear	R2	0.9989	≥0.99	0.9897	
Perfluoroundecanoic acid (PFUnDA)	TRG	Linear	R2	0.9975	≥0.99	0.7185	

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC1900392-01	0.05 PPB ICAL	190920_008	09/20/2019 15:38
03	KC1900392-03	0.10 PPB ICAL	190920_009	09/20/2019 15:49
04	KC1900392-04	0.50 PPB ICAL	190920_010	09/20/2019 16:00
05	KC1900392-05	5.0 PPB ICAL	190920_012	09/20/2019 16:22
06	KC1900392-06	10.0 PPB ICAL	190920_013	09/20/2019 16:33
02	KC1900392-02	15.0 PPB ICAL	190920_014	09/20/2019 16:44
07	KC1900392-07	1.0 PPB ICAL	190920_016	09/20/2019 17:06

Analyte

13C2-6:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.09308	02	5.0000	0.08396	03	5.0000	0.1049	04	5.0000	0.1099
05	5.0000	0.09717	06	5.0000	0.09462	07	5.0000	0.08551			

13C2-8:2 FTS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.0539	02	5.0000	0.04853	03	5.0000	0.07109	04	5.0000	0.07267
05	5.0000	0.0589	06	5.0000	0.05644	07	5.0000	0.05134			

13C2-PFDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.9078	02	5.0000	0.7262	03	5.0000	0.6747	04	5.0000	0.7841
05	5.0000	0.9074	06	5.0000	0.9025	07	5.0000	0.7531			

13C2-PFDoDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.225	02	5.0000	1.168	03	5.0000	1.013	04	5.0000	1.057
05	5.0000	1.279	06	5.0000	1.346	07	5.0000	1.135			

13C2-PFHxA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.087	02	5.0000	1.084	03	5.0000	1.347	04	5.0000	1.519
05	5.0000	1.135	06	5.0000	1.294	07	5.0000	0.9787			

13C2-PFTeDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.53	02	5.0000	1.379	03	5.0000	1.609	04	5.0000	1.679
05	5.0000	1.521	06	5.0000	1.489	07	5.0000	1.398			

13C2-PFUnDA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.677	02	5.0000	0.6912	03	5.0000	0.78	04	5.0000	0.771
05	5.0000	0.6899	06	5.0000	0.7132	07	5.0000	0.6857			

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.247	02	5.0000	0.238	03	5.0000	0.2366	04	5.0000	0.2471

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

13C3-PFBS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	5.0000	0.2543	06	5.0000	0.2594	07	5.0000	0.2259			

13C4-PFBA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.7721	02	5.0000	0.7944	03	5.0000	0.7848	04	5.0000	0.8408
05	5.0000	0.8273	06	5.0000	0.8694	07	5.0000	0.6995			

13C4-PFHpA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.9139	02	5.0000	0.8393	03	5.0000	1.234	04	5.0000	1.303
05	5.0000	1.001	06	5.0000	1.083	07	5.0000	0.7654			

13C4-PFOA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	1.319	02	5.0000	1.097	03	5.0000	1.17	04	5.0000	1.216
05	5.0000	1.294	06	5.0000	1.224	07	5.0000	1.102			

13C4-PFOS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1462	02	5.0000	0.1157	03	5.0000	0.1274	04	5.0000	0.1449
05	5.0000	0.1578	06	5.0000	0.1468	07	5.0000	0.1118			

13C5-PFNA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.904	02	5.0000	0.7652	03	5.0000	0.9465	04	5.0000	1.116
05	5.0000	0.9789	06	5.0000	0.9843	07	5.0000	0.7045			

13C5-PFPeA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.5138	02	5.0000	0.508	03	5.0000	0.5227	04	5.0000	0.5545
05	5.0000	0.5416	06	5.0000	0.5536	07	5.0000	0.4661			

13C8-FOSA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.4372	02	5.0000	0.4643	03	5.0000	0.4104	04	5.0000	0.4456
05	5.0000	0.5164	06	5.0000	0.4876	07	5.0000	0.4202			

18O2-PFHxS

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1293	02	5.0000	0.1164	03	5.0000	0.1465	04	5.0000	0.159
05	5.0000	0.1413	06	5.0000	0.1571	07	5.0000	0.1039			

6:2 Fluorotelomer sulfonic acid (6:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0476	0.6688	03	0.0951	1.044	04	0.4756	1.034	07	0.9512	1.007
05	4.7558	0.8927	06	9.5117	0.8696	02	14.2676	0.8654			

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

8:2 Fluorotelomer sulfonic acid (8:2 FTS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0480	0.7864	03	0.0960	0.659	04	0.4800	0.802	07	0.9600	0.7599
05	4.8002	0.7768	06	9.6004	0.7576	02	14.4007	0.6542			

D3-MeFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.1147	02	5.0000	0.1339	03	5.0000	0.1382	04	5.0000	0.1381
05	5.0000	0.1317	06	5.0000	0.1461	07	5.0000	0.1142			

D5-EtFOSAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.0000	0.09873	02	5.0000	0.1071	03	5.0000	0.117	04	5.0000	0.1227
05	5.0000	0.1013	06	5.0000	0.1073	07	5.0000	0.09193			

N-Ethyl perfluorooctane sulfonamidoacetic acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.4386	03	0.1000	0.5949	04	0.5000	0.6999	07	1.0000	0.6322
05	5.0000	0.7415	06	10.0000	0.6536	02	15.0000	0.5653			

N-Methyl perfluorooctane sulfonamidoacetic acid

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	0.1000	1.039	04	0.5000	0.7943	07	1.0000	0.7666	05	5.0000	0.7493
06	10.0000	0.7298									

Perfluorobutane sulfonic acid (PFBS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0444	1.44	03	0.0887	1.389	04	0.4437	1.388	07	0.8874	1.302
05	4.4368	1.256	06	8.8737	1.276	02	13.3106	1.244			

Perfluorobutanoic acid (PFBA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.012	03	0.1000	0.9617	04	0.5000	0.932	07	1.0000	0.9464
05	5.0000	0.9467	06	10.0000	0.9253	02	15.0000	0.9277			

Perfluorodecane sulfonic acid (PFDS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0482	0.9902	03	0.0965	0.9108	04	0.4823	1.17	07	0.9647	1.004
05	4.8233	0.8881	06	9.6467	0.8896	02	14.4700	0.8415			

Perfluorodecanoic acid (PFDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.061	03	0.1000	1.251	04	0.5000	0.9296	07	1.0000	1.094
05	5.0000	1.043	06	10.0000	1.04	02	15.0000	1.122			

Perfluorododecanoic acid (PFDoDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.7722	03	0.1000	0.6799	04	0.5000	0.6609	07	1.0000	0.678
05	5.0000	0.6492	06	10.0000	0.6584	02	15.0000	0.6395			

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluoroheptane sulfonic acid (PFHpS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0477	1.373	03	0.0953	1.341	04	0.4767	1.229	07	0.9534	1.582
05	4.7672	1.138	06	9.5344	0.9645	02	14.3016	1.199			

Perfluoroheptanoic acid (PFHpA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.327	03	0.1000	1.244	04	0.5000	0.9292	07	1.0000	1.026
05	5.0000	0.9829	06	10.0000	0.9803	02	15.0000	1.011			

Perfluorohexane sulfonic acid (PFHxS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0457	1.736	03	0.0913	1.487	04	0.4565	1.339	07	0.9131	1.462
05	4.5654	1.287	06	9.1308	1.204	02	13.6961	1.262			

Perfluorohexanoic acid (PFHxA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.144	03	0.1000	1.021	04	0.5000	0.8293	07	1.0000	0.827
05	5.0000	0.8865	06	10.0000	0.8346	02	15.0000	0.856			

Perfluorononanoic acid (PFNA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.233	03	0.1000	0.9759	04	0.5000	0.8473	07	1.0000	0.8922
05	5.0000	0.8664	06	10.0000	0.886	02	15.0000	0.8515			

Perfluorooctane sulfonamide (FOSA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.283	03	0.1000	1.239	04	0.5000	1.134	07	1.0000	1.157
05	5.0000	1.033	06	10.0000	1.04	02	15.0000	1.047			

Perfluorooctane sulfonic acid (PFOS)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0465	1.215	03	0.0929	1.012	04	0.4646	1.109	07	0.9292	1.062
05	4.6461	0.9568	06	9.2923	0.9662	02	13.9384	0.9978			

Perfluorooctanoic acid (PFOA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.446	03	0.1000	1.319	04	0.5000	1.156	07	1.0000	1.131
05	5.0000	1.132	06	10.0000	1.154	02	15.0000	1.187			

Perfluoropentanoic acid (PFPeA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	5.852	03	0.1000	3.726	04	0.5000	2.271	07	1.0000	2.077
05	5.0000	1.937	06	10.0000	1.907	02	15.0000	1.924			

Perfluorotetradecanoic acid (PFTeDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.805	03	0.1000	1.148	04	0.5000	0.5832	07	1.0000	0.5265
05	5.0000	0.4895	06	10.0000	0.4905	02	15.0000	0.4583			

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte

Perfluorotridecanoic acid (PFTrDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	0.9562	03	0.1000	0.761	04	0.5000	0.7768	07	1.0000	0.7892
05	5.0000	0.7638	06	10.0000	0.7498	02	15.0000	0.7436			

Perfluoroundecanoic acid (PFUnDA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.0500	1.227	03	0.1000	1.143	04	0.5000	0.8571	07	1.0000	0.8647
05	5.0000	0.9008	06	10.0000	0.8322	02	15.0000	0.8818			

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
13C2-6:2 FTS	SURR	Average RF	% RSD	9.9	≤20	0.0956	
13C2-8:2 FTS	SURR	Average RF	% RSD	16.0	≤20	0.05898	
13C2-PFDA	SURR	Average RF	% RSD	12.0	≤20	0.808	
13C2-PFDoDA	SURR	Average RF	% RSD	10.1	≤20	1.175	
13C2-PFHxA	SURR	Average RF	% RSD	15.6	≤20	1.206	
13C2-PFTeDA	SURR	Average RF	% RSD	7.1	≤20	1.515	
13C2-PFUnDA	SURR	Average RF	% RSD	5.9	≤20	0.7154	
13C3-PFBS	SURR	Average RF	% RSD	4.7	≤20	0.2441	
13C4-PFBA	SURR	Average RF	% RSD	6.9	≤20	0.7983	
13C4-PFHpA	SURR	Average RF	% RSD	19.6	≤20	1.02	
13C4-PFOA	SURR	Average RF	% RSD	7.2	≤20	1.203	
13C4-PFOS	SURR	Average RF	% RSD	12.9	≤20	0.1358	
13C5-PFNA	SURR	Average RF	% RSD	15.3	≤20	0.9143	
13C5-PFPeA	SURR	Average RF	% RSD	6.0	≤20	0.5229	
13C8-FOSA	SURR	Average RF	% RSD	8.3	≤20	0.4545	
18O2-PFHxS	SURR	Average RF	% RSD	15.2	≤20	0.1362	
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	TRG	Average RF	% RSD	14.5	≤20	0.9116	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	TRG	Average RF	% RSD	8.2	≤20	0.7423	
D3-MeFOSAA	SURR	Average RF	% RSD	9.3	≤20	0.131	
D5-EtFOSAA	SURR	Average RF	% RSD	9.9	≤20	0.1066	
N-Ethyl perfluorooctane sulfonamidoacetic acid	TRG	Average RF	% RSD	16.0	≤20	0.618	
N-Methyl perfluorooctane sulfonamidoacetic acid	TRG	Average RF	% RSD	15.6	≤20	0.8159	
Perfluorobutane sulfonic acid (PFBS)	TRG	Average RF	% RSD	5.8	≤20	1.328	
Perfluorobutanoic acid (PFBA)	TRG	Average RF	% RSD	3.2	≤20	0.9503	
Perfluorodecane sulfonic acid (PFDS)	TRG	Average RF	% RSD	11.6	≤20	0.9562	
Perfluorodecanoic acid (PFDA)	TRG	Average RF	% RSD	9.0	≤20	1.077	
Perfluorododecanoic acid (PFDoDA)	TRG	Linear	R2	0.9998	≥0.99	0.6769	
Perfluoroheptane sulfonic acid (PFHpS)	TRG	Average RF	% RSD	15.5	≤20	1.261	
Perfluoroheptanoic acid (PFHpA)	TRG	Linear	R2	0.9996	≥0.99	1.071	
Perfluorohexane sulfonic acid (PFHxS)	TRG	Average RF	% RSD	13.0	≤20	1.397	
Perfluorohexanoic acid (PFHxA)	TRG	Linear	R2	0.9995	≥0.99	0.9142	

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Perfluorononanoic acid (PFNA)	TRG	Linear	R2	0.9996	≥0.99	0.936	
Perfluorooctane sulfonamide (FOSA)	TRG	Average RF	% RSD	8.8	≤20	1.133	
Perfluorooctane sulfonic acid (PFOS)	TRG	Average RF	% RSD	8.8	≤20	1.045	
Perfluorooctanoic acid (PFOA)	TRG	Linear	R2	0.9996	≥0.99	1.218	
Perfluoropentanoic acid (PFPeA)	TRG	Linear	R2	1.0000	≥0.99	2.813	
Perfluorotetradecanoic acid (PFTeDA)	TRG	Linear	R2	0.9991	≥0.99	0.7859	
Perfluorotridecanoic acid (PFTrDA)	TRG	Linear	R2	0.9998	≥0.99	0.7915	
Perfluoroundecanoic acid (PFUnDA)	TRG	Linear	R2	0.9990	≥0.99	0.9581	

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC1900381-08	1.0 PPB ICV	190917_014	09/17/2019 17:16

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.866	1.015E0	9.907E-1	-2.379	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	1.05	1.401E0	1.402E0	14.89	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.03	1.541E0	1.672E0	8.54	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.966	6.86E-1	7.131E-1	3.95	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	0.920	6.868E-1	6.548E-1	-4.657	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	1.01	7.797E-1	7.865E-1	0.874	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	0.997	2.734E0	1.96E0	-0.306	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	1.01	1.051E0	9.838E-1	0.877	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	0.982	1.059E0	9.737E-1	-1.825	±30	Linear
Perfluorooctanoic acid (PFOA)	1.00	1.05	9.153E-1	8.849E-1	5.42	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.05	9.088E-1	8.751E-1	5.34	±30	Linear
Perfluorodecanoic acid (PFDA)	1.00	1.10	8.247E-1	8.682E-1	10.24	±30	Linear
Perfluoroundecanoic acid (PFUnDA)	1.00	1.11	7.185E-1	7.343E-1	10.74	±30	Linear
Perfluorododecanoic acid (PFDoDA)	1.00	1.01	4.89E-1	5.113E-1	1.32	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	0.970	9.897E-1	9.455E-1	-2.950	±30	Linear
Perfluorotetradecanoic acid (PFTeDA)	1.00	1.01	6.845E-1	4.648E-1	1.07	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	1.02	1.236E0	1.264E0	2.31	±30	Average RF
N-Methyl perfluorooctane sulfonamidoacetic acid	1.00	1.03	6.561E-1	6.733E-1	2.62	±30	Average RF
N-Ethyl perfluorooctane sulfonamidoacetic acid	1.00	1.09	4.689E-1	5.104E-1	8.84	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	0.964	1.054E0	1.069E0	1.38	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.00	7.043E-1	7.344E-1	4.27	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C3-PFBS	5.00	4.90	2.324E-1	2.279E-1	-1.938	±30	Average RF
18O2-PFHxS	5.00	4.46	1.15E-1	1.026E-1	-10.778	±30	Average RF
13C4-PFOS	5.00	4.84	1.676E-1	1.621E-1	-3.286	±30	Average RF
13C4-PFBA	5.00	4.58	9.072E-1	8.318E-1	-8.307	±30	Average RF
13C5-PFPeA	5.00	4.71	4.609E-1	4.345E-1	-5.719	±30	Average RF
13C2-PFHxA	5.00	4.50	1.111E0	1.0E0	-9.986	±30	Average RF
13C4-PFHpA	5.00	5.05	7.513E-1	7.592E-1	1.05	±30	Average RF
13C4-PFOA	5.00	4.97	1.21E0	1.204E0	-0.523	±30	Average RF

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/17/2019

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900381 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C5-PFNA	5.00	4.62	8.525E-1	7.879E-1	-7.575	±30	Average RF
13C2-PFDA	5.00	5.20	7.051E-1	7.339E-1	4.08	±30	Average RF
13C2-PFUnDA	5.00	5.08	7.926E-1	8.051E-1	1.59	±30	Average RF
13C2-PFDoDA	5.00	4.52	9.618E-1	8.699E-1	-9.559	±30	Average RF
13C2-PFTeDA	5.00	4.69	7.635E-1	7.166E-1	-6.134	±30	Average RF
13C8-FOSA	5.00	4.37	4.166E-1	3.644E-1	-12.532	±30	Average RF
D3-MeFOSAA	5.00	4.64	7.782E-2	7.218E-2	-7.253	±30	Average RF
D5-EtFOSAA	5.00	4.67	7.106E-2	6.637E-2	-6.591	±30	Average RF
13C2-6:2 FTS	5.00	4.60	7.443E-2	6.844E-2	-8.053	±30	Average RF
13C2-8:2 FTS	5.00	4.41	4.863E-2	4.287E-2	-11.846	±30	Average RF

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

#	Lab Code	Sample Name	File Location	Acquisition Date
08	KC1900392-08	1.0 PPB ICV	190920_017	09/20/2019 17:17

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.900	1.328E0	1.347E0	1.45	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.900	1.397E0	1.377E0	-1.402	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.02	1.261E0	1.35E0	7.08	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.958	1.045E0	1.078E0	3.10	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.18	9.562E-1	1.172E0	22.56	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	1.00	9.503E-1	9.538E-1	0.366	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.01	2.813E0	2.118E0	1.40	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	0.994	9.142E-1	8.589E-1	-0.607	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	0.902	1.071E0	9.126E-1	-9.783	±30	Linear
Perfluorooctanoic acid (PFOA)	1.00	0.994	1.218E0	1.168E0	-0.577	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	0.981	9.36E-1	8.627E-1	-1.863	±30	Linear
Perfluorodecanoic acid (PFDA)	1.00	1.08	1.077E0	1.166E0	8.26	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.01	9.581E-1	8.9E-1	0.603	±30	Linear
Perfluorododecanoic acid (PFDoDA)	1.00	1.09	6.769E-1	7.096E-1	8.64	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.07	7.915E-1	8.137E-1	7.43	±30	Linear
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.987	7.859E-1	5.279E-1	-1.300	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	0.965	1.133E0	1.094E0	-3.498	±30	Average RF
N-Methyl perfluorooctane sulfonamidoacetic acid	1.00	1.10	8.159E-1	8.997E-1	10.28	±30	Average RF
N-Ethyl perfluorooctane sulfonamidoacetic acid	1.00	1.27	6.18E-1	7.821E-1	26.55	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.13	9.116E-1	1.085E0	19.00	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.15	7.423E-1	8.889E-1	19.75	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C3-PFBS	5.00	5.05	2.441E-1	2.465E-1	1.00	±30	Average RF
18O2-PFHxS	5.00	4.72	1.362E-1	1.287E-1	-5.516	±30	Average RF
13C4-PFOS	5.00	5.27	1.358E-1	1.431E-1	5.38	±30	Average RF
13C4-PFBA	5.00	4.98	7.983E-1	7.949E-1	-0.425	±30	Average RF
13C5-PFPeA	5.00	4.93	5.229E-1	5.154E-1	-1.427	±30	Average RF
13C2-PFHxA	5.00	4.48	1.206E0	1.081E0	-10.378	±30	Average RF
13C4-PFHpA	5.00	4.55	1.02E0	9.285E-1	-8.968	±30	Average RF
13C4-PFOA	5.00	5.59	1.203E0	1.346E0	11.90	±30	Average RF

Client: Xerox Corporation USA **Service Request:** R1908707
Project: Bldg 801 Wells PFAS & 1,4-D **Calibration Date:** 9/20/2019

Initial Calibration Verification Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Calibration ID: KC1900392 **Signal ID:** 1
Instrument ID: K-LCMS-06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
13C5-PFNA	5.00	4.99	9.143E-1	9.117E-1	-0.275	±30	Average RF
13C2-PFDA	5.00	5.50	8.08E-1	8.891E-1	10.05	±30	Average RF
13C2-PFUnDA	5.00	5.12	7.154E-1	7.321E-1	2.34	±30	Average RF
13C2-PFDoDA	5.00	5.58	1.175E0	1.311E0	11.57	±30	Average RF
13C2-PFTeDA	5.00	5.03	1.515E0	1.524E0	0.612	±30	Average RF
13C8-FOSA	5.00	5.21	4.545E-1	4.734E-1	4.15	±30	Average RF
D3-MeFOSAA	5.00	4.90	1.31E-1	1.283E-1	-2.076	±30	Average RF
D5-EtFOSAA	5.00	4.95	1.066E-1	1.055E-1	-0.984	±30	Average RF
13C2-6:2 FTS	5.00	4.87	9.56E-2	9.312E-2	-2.595	±30	Average RF
13C2-8:2 FTS	5.00	4.96	5.898E-2	5.849E-2	-0.832	±30	Average RF

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Analyzed:**	09/19/19 06:14

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	9/17/2019
File ID:	J:\LCMS06\Data\190917_b9\190917_224	**Calibration ID:**	KC1900381
Signal ID:	1	**Analysis Lot:**	651768
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	1.14	1.0148	1.3031	128	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	1.07	1.4005	1.4278	117	17.1	±30	Linear
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.15	1.5406	1.8623	121	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	1.19	0.686	0.8809	128	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.39	0.6868	0.9888	144*	NA	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	1.20	0.7797	0.9361	120	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.19	2.7341	2.2928	119	18.6	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	1.08	1.0511	1.0551	108	8.3	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	1.07	1.0594	1.0579	107	6.8	±30	Linear
Perfluorooctanoic acid (PFOA)	1.00	1.27	0.9153	1.0614	127	26.9	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	1.18	0.9088	0.9814	118	18.4	±30	Linear
Perfluorodecanoic acid (PFDA)	1.00	1.22	0.8247	0.9575	122	21.7	±30	Linear
Perfluoroundecanoic acid (PFUnDA)	1.00	1.19	0.7185	0.7868	119	18.8	±30	Linear
Perfluorododecanoic acid (PFDoDA)	1.00	1.19	0.489	0.602	119	18.9	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	1.09	0.9897	1.0567	109	8.5	±30	Linear
Perfluorotetradecanoic acid (PFTeDA)	1.00	1.23	0.6845	0.5528	123	23.0	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	1.07	1.2355	1.3204	107	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoacetic acid	1.00	1.17	0.6561	0.768	117	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamidoacetic acid	1.00	1.34	0.4689	0.6284	134*	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.05	1.0544	1.1586	110	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.37	0.7043	1.0069	143*	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	6.97	0.2324	0.324	139*	NA	±30	Average RF
18O2-PFHxS	5.00	6.19	0.115	0.1424	124	NA	±30	Average RF
13C4-PFOS	5.00	6.00	0.1676	0.201	120	NA	±30	Average RF
13C4-PFBA	5.00	6.28	0.9072	1.1399	126	NA	±30	Average RF
13C5-PFPeA	5.00	6.14	0.4609	0.566	123	NA	±30	Average RF
13C2-PFHxA	5.00	5.91	1.1109	1.3122	118	NA	±30	Average RF
13C4-PFHpA	5.00	6.81	0.7513	1.0231	136*	NA	±30	Average RF
13C4-PFOA	5.00	5.57	1.2104	1.3484	111	NA	±30	Average RF
13C5-PFNA	5.00	5.75	0.8525	0.9797	115	NA	±30	Average RF

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Analyzed:**	09/19/19 06:14

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	9/17/2019
File ID:	J:\LCMS06\Data\190917_b9\190917_224	**Calibration ID:**	KC1900381
Signal ID:	1	**Analysis Lot:**	651768
		Units:	ng/mL

13C2-PFDA	5.00	6.42	0.7051	0.9049	128	NA	±30	Average RF
13C2-PFUnDA	5.00	4.59	0.7926	0.7283	91.9	NA	±30	Average RF
13C2-PFDoDA	5.00	5.68	0.9618	1.0933	114	NA	±30	Average RF
13C2-PFTeDA	5.00	5.24	0.7635	0.8	105	NA	±30	Average RF
13C8-FOSA	5.00	6.25	0.4166	0.5204	125	NA	±30	Average RF
D3-MeFOSAA	5.00	5.23	0.0778	0.0814	105	NA	±30	Average RF
D5-EtFOSAA	5.00	5.09	0.0711	0.0723	102	NA	±30	Average RF
13C2-6:2 FTS	5.00	5.06	0.0744	0.0753	101	NA	±30	Average RF
13C2-8:2 FTS	5.00	5.30	0.0486	0.0516	106	NA	±30	Average RF

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Analyzed:**	09/23/19 23:46

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	9/20/2019
File ID:	J:\LCMS06\Data\190923_b2\190923_022	**Calibration ID:**	KC1900392
Signal ID:	1	**Analysis Lot:**	652554
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
Perfluorobutane sulfonic acid (PFBS)	0.887	0.895	1.328	1.3388	101	NA	±30	Average RF
Perfluorohexane sulfonic acid (PFHxS)	0.913	0.936	1.3967	1.4319	103	NA	±30	Average RF
Perfluoroheptane sulfonic acid (PFHpS)	0.953	1.05	1.2609	1.3898	110	NA	±30	Average RF
Perfluorooctane sulfonic acid (PFOS)	0.929	0.829	1.0455	0.9324	89.2	NA	±30	Average RF
Perfluorodecane sulfonic acid (PFDS)	0.965	1.09	0.9562	1.0785	113	NA	±30	Average RF
Perfluorobutanoic acid (PFBA)	1.00	1.01	0.9503	0.9598	101	NA	±30	Average RF
Perfluoropentanoic acid (PFPeA)	1.00	1.07	2.8133	2.2232	107	6.9	±30	Linear
Perfluorohexanoic acid (PFHxA)	1.00	0.987	0.9142	0.853	98.7	-1.3	±30	Linear
Perfluoroheptanoic acid (PFHpA)	1.00	0.891	1.0714	0.9011	89.1	-10.9	±30	Linear
Perfluorooctanoic acid (PFOA)	1.00	0.945	1.2178	1.1114	94.5	-5.5	±30	Linear
Perfluorononanoic acid (PFNA)	1.00	0.994	0.936	0.8739	99.4	-0.6	±30	Linear
Perfluorodecanoic acid (PFDA)	1.00	0.977	1.0772	1.0522	97.7	NA	±30	Average RF
Perfluoroundecanoic acid (PFUnDA)	1.00	1.04	0.9581	0.9156	104	3.6	±30	Linear
Perfluorododecanoic acid (PFDoDA)	1.00	1.04	0.6769	0.6804	104	4.1	±30	Linear
Perfluorotridecanoic acid (PFTrDA)	1.00	0.825	0.7915	0.6272	82.5	-17.5	±30	Linear
Perfluorotetradecanoic acid (PFTeDA)	1.00	0.959	0.7859	0.5148	95.9	-4.1	±30	Linear
Perfluorooctane sulfonamide (FOSA)	1.00	0.921	1.1334	1.0434	92.1	NA	±30	Average RF
N-Methyl perfluorooctane sulfonamidoacetic acid	1.00	1.06	0.8159	0.8679	106	NA	±30	Average RF
N-Ethyl perfluorooctane sulfonamidoacetic acid	1.00	1.05	0.618	0.6517	105	NA	±30	Average RF
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	0.951	1.10	0.9116	1.058	116	NA	±30	Average RF
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0.960	1.04	0.7423	0.8037	108	NA	±30	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	Rec.	% Drift	Criteria	Curve Fit
13C3-PFBS	5.00	4.85	0.2441	0.2366	97.0	NA	±30	Average RF
18O2-PFHxS	5.00	4.41	0.1362	0.1201	88.1	NA	±30	Average RF
13C4-PFOS	5.00	5.42	0.1358	0.1473	108	NA	±30	Average RF
13C4-PFBA	5.00	4.53	0.7983	0.7234	90.6	NA	±30	Average RF
13C5-PFPeA	5.00	4.46	0.5229	0.4663	89.2	NA	±30	Average RF
13C2-PFHxA	5.00	5.34	1.2063	1.2892	107	NA	±30	Average RF
13C4-PFHpA	5.00	5.06	1.0199	1.0317	101	NA	±30	Average RF
13C4-PFOA	5.00	5.45	1.2032	1.3124	109	NA	±30	Average RF
13C5-PFNA	5.00	5.69	0.9143	1.0401	114	NA	±30	Average RF

Client:	Xerox Corporation USA	**Service Request:**	R1908707
Project:	Bldg 801 Wells PFAS & 1,4-D	**Date Analyzed:**	09/23/19 23:46

Continuing Calibration Verification (CCV) Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Calibration Date:**	9/20/2019
File ID:	J:\LCMS06\Data\190923_b2\190923_022	**Calibration ID:**	KC1900392
Signal ID:	1	**Analysis Lot:**	652554
		Units:	ng/mL

13C2-PFDA	5.00	4.95	0.808	0.7993	98.9	NA	±30	Average RF
13C2-PFUnDA	5.00	5.33	0.7154	0.7633	107	NA	±30	Average RF
13C2-PFDoDA	5.00	5.45	1.1749	1.2809	109	NA	±30	Average RF
13C2-PFTeDA	5.00	5.57	1.5151	1.6888	111	NA	±30	Average RF
13C8-FOSA	5.00	4.83	0.4545	0.4392	96.6	NA	±30	Average RF
D3-MeFOSAA	5.00	5.29	0.131	0.1386	106	NA	±30	Average RF
D5-EtFOSAA	5.00	6.54	0.1066	0.1394	131*	NA	±30	Average RF
13C2-6:2 FTS	5.00	4.48	0.0956	0.0857	89.6	NA	±30	Average RF
13C2-8:2 FTS	5.00	6.36	0.059	0.075	127	NA	±30	Average RF

Client: Xerox Corporation USA **Service Request:**R1908707
Project: Bldg 801 Wells PFAS & 1,4-D

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**651768
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\190917_b9\190917_224	Continuing Calibration Verification	KQ1913393-01	9/19/2019	06:14	
J:\LCMS06\Data\190917_b9\190917_225	Continuing Calibration Blank	KQ1913393-02	9/19/2019	06:24	
J:\LCMS06\Data\190917_b9\190917_226	Method Blank	KQ1913122-06	9/19/2019	06:34	
J:\LCMS06\Data\190917_b9\190917_227	Lab Control Sample	KQ1913122-05	9/19/2019	06:45	
J:\LCMS06\Data\190917_b9\190917_228	MW-13S	R1908707-001	9/19/2019	06:55	
J:\LCMS06\Data\190917_b9\190917_229	VE-12	R1908707-002	9/19/2019	07:06	
J:\LCMS06\Data\190917_b9\190917_230	VE-12 MS	KQ1913122-01	9/19/2019	07:16	
J:\LCMS06\Data\190917_b9\190917_231	VE-12 DMS	KQ1913122-02	9/19/2019	07:27	
J:\LCMS06\Data\190917_b9\190917_232	MW-24S	R1908707-003	9/19/2019	07:37	
J:\LCMS06\Data\190917_b9\190917_233	MW-24S Dup	R1908707-004	9/19/2019	07:48	
J:\LCMS06\Data\190917_b9\190917_234	Field Blank	R1908707-005	9/19/2019	07:58	
J:\LCMS06\Data\190917_b9\190917_235	Equipment Blank	R1908707-006	9/19/2019	08:09	
J:\LCMS06\Data\190917_b9\190917_236	ZZZZZZZ	ZZZZZZZ	9/19/2019	08:19	
J:\LCMS06\Data\190917_b9\190917_237	ZZZZZZZ	ZZZZZZZ	9/19/2019	08:29	
J:\LCMS06\Data\190917_b9\190917_238	ZZZZZZZ	ZZZZZZZ	9/19/2019	08:40	
J:\LCMS06\Data\190917_b9\190917_239	ZZZZZZZ	ZZZZZZZ	9/19/2019	08:50	
J:\LCMS06\Data\190917_b9\190917_240	ZZZZZZZ	ZZZZZZZ	9/19/2019	09:01	
J:\LCMS06\Data\190917_b9\190917_241	ZZZZZZZ	ZZZZZZZ	9/19/2019	09:11	
J:\LCMS06\Data\190917_b9\190917_242	ZZZZZZZ	ZZZZZZZ	9/19/2019	09:22	
J:\LCMS06\Data\190917_b9\190917_243	ZZZZZZZ	ZZZZZZZ	9/19/2019	09:32	
J:\LCMS06\Data\190917_b9\190917_244	ZZZZZZZ	ZZZZZZZ	9/19/2019	09:43	
J:\LCMS06\Data\190917_b9\190917_245	ZZZZZZZ	ZZZZZZZ	9/19/2019	09:53	

Client: Xerox Corporation USA **Service Request:**R1908707
Project: Bldg 801 Wells PFAS & 1,4-D

Analysis Run Log
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M **Analysis Lot:**652554
Instrument ID:K-LCMS-06

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\LCMS06\Data\190923_b2\190923_022	Continuing Calibration Verification	KQ1913623-01	9/23/2019	23:46	
J:\LCMS06\Data\190923_b2\190923_023	Continuing Calibration Blank	KQ1913623-02	9/23/2019	23:57	
J:\LCMS06\Data\190923_b2\190923_025	MW-24S Dup	R1908707-004	9/24/2019	00:19	
J:\LCMS06\Data\190923_b2\190923_026	ZZZZZZZ	ZZZZZZZ	9/24/2019	00:30	

Prep Summary Report

Client: Xerox Corporation USA **Service Request:**R1908707
Project: Bldg 801 Wells PFAS & 1,4-D
Sample Matrix: Water

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Prep Method: EPA 3535A **Extraction Lot:** 344503
Analytical Method: PFC/537M **Extraction Date:** 09/16/19 08:43

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
Matrix Spike	KQ1913122-01MS	9/10/19	9/10/19	300.0000 mL	8 mL	
Duplicate Matrix Spike	KQ1913122-02DMS	9/10/19	9/10/19	305.0000 mL	8 mL	
Lab Control Sample	KQ1913122-05LCS	NA	NA	250 mL	8 mL	
Method Blank	KQ1913122-06MB	NA	NA	250 mL	8 mL	
MW-13S	R1908707-001	9/10/19	9/10/19	310.0000 mL	8 mL	
VE-12	R1908707-002	9/10/19	9/10/19	310.0000 mL	8 mL	
MW-24S	R1908707-003	9/10/19	9/10/19	300.0000 mL	8 mL	
MW-24S Dup	R1908707-004	9/10/19	9/10/19	300.0000 mL	8 mL	
MW-24S Dup	R1908707-004	9/10/19	9/10/19	300.0000 mL	8 mL	
Field Blank	R1908707-005	9/10/19	9/10/19	300.0000 mL	8 mL	
Equipment Blank	R1908707-006	9/10/19	9/10/19	275.0000 mL	8 mL	

Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

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Preparation Information Benchsheet

rep Run#: 344503
eam: Organic LC/KLMILLER

Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A

Status: Prepped
Prep Date/Time: 9/16/19 08:43

Number of Copies to make: 2

	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	R1908707-001	MW-13S	.01	PFC/537M/PFOA		Water	310.0000mL	8.00mL	
2	R1908707-002	VE-12	.01	PFC/537M/PFOA		Water	310.0000mL	8.00mL	
3	R1908707-003	MW-24S	.01	PFC/537M/PFOA		Water	300.0000mL	8.00mL	
4	R1908707-004	MW-24S Dup	.01	PFC/537M/PFOA		Water	300.0000mL	8.00mL	
5	R1908707-005	Field Blank	.01	PFC/537M/PFOA		Water	300.0000mL	8.00mL	
6	R1908707-006	Equipment Blank	.01	PFC/537M/PFOA		Water	275.0000mL	8.00mL	
7	R1908752-001	A-2	.01	PFC/537M/PFOA		Water	300.0000mL	8.00mL	
8	R1908752-002	B-2	.01	PFC/537M/PFOA		Water	305.0000mL	8.00mL	
9	R1908752-003	C-2	.01	PFC/537M/PFOA		Water	315.0000mL	8.00mL	
10	R1908752-004	D-2R	.01	PFC/537M/PFOA		Water	300.0000mL	8.00mL	
11	R1908752-005	D-2R Dup	.01	PFC/537M/PFOA		Water	300.0000mL	8.00mL	
12	R1908752-006	EB-1	.01	PFC/537M/PFOA		Water	310.0000mL	8.00mL	
13	R1908752-007	FB-1	.01	PFC/537M/PFOA		Water	305.0000mL	8.00mL	
14	R1908752-008	TB-1	.01	PFC/537M/PFOA		Water	280.0000mL	8.00mL	
15	KQ1913122-01	R1908707-002 MS	.02	PFC/537M/PFOA		Liquid	300.0000mL	8.00mL	
16	KQ1913122-02	R1908707-002 DMS	.07	PFC/537M/PFOA		Liquid	305.0000mL	8.00mL	
17	KQ1913122-03	R1908752-004 MS	.05	PFC/537M/PFOA		Liquid	310.0000mL	8.00mL	
18	KQ1913122-04	R1908752-004 DMS	.06	PFC/537M/PFOA		Liquid	295.0000mL	8.00mL	
19	KQ1913122-05	LCS		PFC/537M/PFOA		Liquid	250mL	8.00mL	
20	KQ1913122-06	MB		PFC/537M/PFOA		Liquid	250mL	8.00mL	

Spiking Solutions

Name: PFC isotopes 2ppm Inventory ID 201946 Logbook Ref: 19-OLC-01-49A Expires On: 02/28/2020

KQ1913122-01	20.00µL	KQ1913122-02	20.00µL	KQ1913122-03	20.00µL	KQ1913122-04	20.00µL	KQ1913122-05	20.00µL	KQ1913122-06	20.00µL
R1908707-001	20.00µL	R1908707-002	20.00µL	R1908707-003	20.00µL	R1908707-004	20.00µL	R1908707-005	20.00µL	R1908707-006	20.00µL
R1908752-001	20.00µL	R1908752-002	20.00µL	R1908752-003	20.00µL	R1908752-004	20.00µL	R1908752-005	20.00µL	R1908752-006	20.00µL
R1908752-007	20.00µL	R1908752-008	20.00µL								

Name: PFC isotopes 2ppm Inventory ID 202362 Logbook Ref: 19-OLC-01-44K Expires On: 12/04/2023

KQ1913122-01	20.00µL	KQ1913122-02	20.00µL	KQ1913122-03	20.00µL	KQ1913122-04	20.00µL	KQ1913122-05	20.00µL	KQ1913122-06	20.00µL
R1908707-001	20.00µL	R1908707-002	20.00µL	R1908707-003	20.00µL	R1908707-004	20.00µL	R1908707-005	20.00µL	R1908707-006	20.00µL
R1908752-001	20.00µL	R1908752-002	20.00µL	R1908752-003	20.00µL	R1908752-004	20.00µL	R1908752-005	20.00µL	R1908752-006	20.00µL
R1908752-007	20.00µL	R1908752-008	20.00µL								

Preparation Information Benchsheet

rep Run#: 344503
eam: Organic LC/KLMILLER

Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A

Status: Prepped
Prep Date/Time: 9/16/19 08:43

Name:	PFC Targets 200ppb	Inventory ID	202598	Logbook Ref:	19-OLC-02-47A	Expires On:	02/28/2020

KQ1913122-01	40.00µL	KQ1913122-02	40.00µL	KQ1913122-03	40.00µL	KQ1913122-04	40.00µL	KQ1913122-05	40.00µL

Name:	PFC IS	Inventory ID	202845	Logbook Ref:	19-OLC-01-52N	Expires On:	03/11/2020

KQ1913122-01	10.00µL	KQ1913122-02	10.00µL	KQ1913122-03	10.00µL	KQ1913122-04	10.00µL	KQ1913122-05	10.00µL	KQ1913122-06	10.00µL
R1908707-001	10.00µL	R1908707-002	10.00µL	R1908707-003	10.00µL	R1908707-004	10.00µL	R1908707-005	10.00µL	R1908707-006	10.00µL
R1908752-001	10.00µL	R1908752-002	10.00µL	R1908752-003	10.00µL	R1908752-004	10.00µL	R1908752-005	10.00µL	R1908752-006	10.00µL
R1908752-007	10.00µL	R1908752-008	10.00µL								

'reparation Steps

tep:	Extraction	Step:	Final Volume
tarted:	9/16/19 08:43	Started:	9/17/19 15:11
inished:	9/16/19 08:49	Finished:	9/17/19 15:11
y:	KLMILLER	By:	KLMILLER
'omments		Comments	

Comments: _____

Reviewed By: JE Dawes Date: 9/19/19

Chain of Custody

Relinquished By: _____ Date: 9-17-19

Received By: cmuller Date: 9/17/19

Extracts Examined (Yes) No

Preparation Information Benchsheet

ep Run#: 344503
am: Organic LC/KLMILLER
Prep WorkFlow: OrgExtAq(14)
Prep Method: EPA 3535A
Status: Final Volume
Prep Date/Time: 9/16/19 08:43 AM

Number of Copies to make: 2

	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. mL	pH	Int. Vol	Final Vol mL	Surr Amt µL	Spike Amt µL
	R1908707-001 (1)	MW-13S	.01	✓	PFC/537M / PFOA	Water	310	3.5	N/A	8	20/20	—
	R1908707-002 *2	VE-12	.01	✓	PFC/537M / PFOA	Water	310					—
	R1908707-003 2	MW-24S	.01	✓	PFC/537M / PFOA	Water	300					—
	R1908707-004 2	MW-24S Dup	.01	✓	PFC/537M / PFOA	Water	300					—
	R1908707-005	Field Blank	.01	✓	PFC/537M / PFOA	Water	300					—
	R1908707-006	Equipment Blank	.01	✓	PFC/537M / PFOA	Water	275					—
	R1908752-001 2	A-2	.01	✓	PFC/537M / PFOA	Water	300					—
	R1908752-002 2	B-2	.01	✓	PFC/537M / PFOA	Water	305					—
	R1908752-003 2	C-2	.01	✓	PFC/537M / PFOA	Water	315					—
)	R1908752-004 (1)	D-2R	.01	✓	PFC/537M / PFOA	Water	300					—
1	R1908752-005 (1)	D-2R Dup	.01	✓	PFC/537M / PFOA	Water	300					—
2	R1908752-006	EB-1	.01	✓	PFC/537M / PFOA	Water	310					—
3	R1908752-007	FB-1	.01	✓	PFC/537M / PFOA	Water	305					—
4	R1908752-008	TB-1	.01	✓	PFC/537M / PFOA	Water	280					—
5	KQ1913122-01 *2	R1908707-002 MS	.02	✓	PFC/537M / PFOA	Liquid	300					40 µL
6	KQ1913122-02 *2	R1908707-002 DMS	.07	✓	PFC/537M / PFOA	Liquid	305					
7	KQ1913122-03 (1)	R1908752-004 MS	.05		PFC/537M / PFOA	Liquid	310					
8	KQ1913122-04 (1)	R1908752-004 DMS	.06		PFC/537M / PFOA	Liquid	295					
9	KQ1913122-05	LCS			PFC/537M / PFOA	Liquid	250					
0	KQ1913122-06	MB			PFC/537M / PFOA	Liquid	250	↓	↓	↓	↓	—

100 of 600

* Samples had A noticeable odor.
1) Sediment Layer on Bottom of Bottles
2) Light Sediment

Comments:

Surrogate ID: 19-OLC-01-44K 2ppm 20µL xp 12-4-23 Epp: DB
19-OLC-01-49A 2ppm 20µL xp 2-28-20 Epp: DB

Spike ID: 19-DLC-02-47A 200ppb 40µL xp 2-28-20 Epp: DB

Witnessed By: —

Analyst: KM

Assisted By:

Additional prep information for Perfluorinated Compounds
by HPLC/MS/MS – SOP: LCP-PFC (rev. 8)

Waters

Service Request R1908707, R8752 **Workgroup** KQ1913122

6cc 200mg Strata XL-AW Cartridge Sorbent Lot # S222-0025

Envi-Carb Lot # –

0.1% NH_4OH in MeOH Lot# 19-OLC-02-478 MeOH Lot# DW454-US

Reagent Water Lot# 59135

Acetic Acid (LCMS Grade) Lot# SHBK2445

25% NH_4OH Lot# –

Extraction (Manifold) Start (Time/Date/Initial): 13:00 9-16-19 K

Extraction (Manifold) Stop (Time/Date/Initial): 15:45 9-16-19 K

IS solution (13C7-PFUnDA 500ppb) Lot #: 19-OLC-01-52N

Nylon Filter Lot#: 90330103

Extract Storage: Golden Gun

Completed(Time/Date/Initial): 15:05 9-17-19 K

Comments/Observations:

Bench Sheet Review Check List
❑ Hold Times Met (if no, Reason:)
❑ Prep date, dept, method, product code correct in stealth
❑ Spike Information correct
❑ Weights/Volumes and units correct on raw and final bench sheets
❑ Sample IDs have been checked—Bottle numbers appended if required
❑ Names present for: Started by, Completed by, relinquished by, and witnessed by.
❑ Training has been circled
❑ Extract Storage recorded
❑ Additional Prep Sheet completely filled out (NA or line out Blanks)
❑ All clean-ups have been noted on additional prep sheet
❑ Signed service request with Form V, if applicable, has been attached

ALS, Kelso
Appendix from LCP-PFC rev. 8
for extracting Perflourinated compounds in water by HPLC/MS/MS

Procedure:

1. Mark meniscus on bottles for later determination of volume extracted. Make sure that client ID's are present on the bottle, and that those ID's match what is on the barcode/in LIMS. If DoD, verify balance and pipettes.

2. Prepare Varian manifold and gather accessories for extraction (adapter caps, 200mg/6mL Strata-XL-AW 100µm Polymeric Weak Anion cartridges, labeled 16x125 culture tubes with sample names, lines for extraction etc)

3. Sonicate adapter tips, adapter caps, needles, and stopcocks in MeOH 3 times for 15 minutes each, decanting and replacing the methanol between each sonication. Rinse manifold top thoroughly with methanol (through open stopcocks and the entire underside) as well as the adapter caps before using.

4. Condition cartridges once with 6mL of 0.1% NH_4OH in MeOH, once with 6mls MeOH and twice with 6mls reagent water, adding ~5mls of water into each cartridge after the second round of water has been pulled through. Do **NOT** allow the meniscus to pass into the bed of the cartridge at any point during this process. If the meniscus does drop below the filter in the cartridge, start the process over again with the ammonia methanol.

5. QC (MB, LCS, DLCS) will be made with 250mls reagent water in the same bottles as the samples. Adjust the pH of the samples to 3.5 ±0.5 with LC/MS grade Glacial Acetic Acid.

6. Add **20 µL** of **2 ppm** PFC surrogates to all samples and **40 µL** of **200 ppb** PFC spike mix to samples needing spikes (MS/DMS/LCS/DLCS).

7. Make sure the manifold is set to "waste". On a free valve, attach one of the lines, put into the sample. Pull samples through at a rate of ~1 drop/second.

7.1. **Ensure that all bottles are dry with no leftover water in the bottle.**

8. Allow the cartridge to dry under full vacuum (stopcock fully open) for ~10 minutes.

9. Turn pressure off to the manifold and change the manifold to "collect". First rinse the sample transfer line with 4.5mL MeOH swirl the elutriate in the bottle and add to the cartridge, initiate with vacuum and allow to elute by gravity. After the solvent has passed through the cartridge perform a second rinse as before this time with 0.1% NH_4OH in MeOH.

10. Apply vacuum to ensure all of the solvent had eluted through the SPE cartridge.

11. Add 10µL of LC/MS grade Acetic acid to all extracts.

12. Bring all test tubes to a final volume of 8mL with MeOH.

13. If DoD, add 60mg ± 6mg of Envicarb to a clean labeled test tube. Add 2mL of sample extract to tube, vortex and centrifuge for 5 minutes at 1800rpm.

14. Transfer 990µL of sample to a culture tube and add 10µL of 500ppb IS using a syringe.

15. Vortex the culture tube, and filter the extract with a nylon filter into the appropriately marked auto sampler vial, and cap with a poly cap.

1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_228
Lab ID: R1908707-001
RunType: N/A
Matrix: Water

Date Acquired: 9/19/19 06:55
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	Narrate high bias, ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	Narrate high bias, ND
	13C3-PFBS	139	70	130	Narrate native ok
	13C4-PFHpA	136	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	Narrate high bias, ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_228	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:55	**Vial:**	5
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-001	**Raw Units:**	ng/mL

Bottle ID:	R1908707-001.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	R1908707
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.119	0.00	5558244	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.026	-0.01	1282237	4.9633	99	20 - 109	Y
18O2-PFHxS	4.406	-0.01	782508	6.1198	122	26 - 122	Y
13C4-PFOS	4.746	0.00	662323	3.5539	71	25 - 121	Y
13C4-PFBA	3.420	-0.01	4282091	4.2462	85	27 - 124	Y
13C5-PFPeA	3.973	0.00	2017476	3.9379	79	27 - 138	Y
13C2-PFHxA	4.222	-0.01	5014788	4.0608	81	28 - 132	Y
13C4-PFHpA	4.406	0.00	4617069	5.5279	111	19 - 139	Y
13C4-PFOA	4.578	-0.01	5651041	4.1997	84	22 - 130	Y
13C5-PFNA	4.757	0.00	3363533	3.5494	71	20 - 127	Y
13C2-PFDA	4.940	0.00	3152698	4.0219	80	24 - 125	Y
13C2-PFUnDA	5.119	0.00	3038962	3.4493	69	22 - 125	Y
13C2-PFDoDA	5.295	0.00	3542445	3.3132	66	19 - 122	Y
13C2-PFTeDA	5.610	0.00	2015455	2.3748	47	13 - 124	Y
13C8-FOSA	5.237	+0.01	1846747	3.9881	80	18 - 109	Y
D3-MeFOSAA	5.037		252341	2.9169	58	9 - 123	Y
D5-EtFOSAA	5.134		255471	3.2342	65	12 - 126	Y
13C2-6:2 FTS	4.566	-0.01	428430	5.1777	104	10 - 226	Y
13C2-8:2 FTS	4.933	0.00	231690	4.2861	86	10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.025	0.00	15496	0.0597	1.5	J	Y
Perfluorohexane sulfonic acid (PFHxS)	4.403	-0.01	5147	-0.0080	0	U	Y

1st EJD 09/19/19
2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_228	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:55	**Vial:**	5
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-001	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.745	-0.01	2201	0.0242	0.62	J	Y
Perfluorodecane sulfonic acid (PFDS)	5.089	-0.02	947	0.0104	0.27	U	Y
Perfluorobutanoic acid (PFBA)	3.421	-0.01	77364	0.1159	3.0	J	Y
Perfluoropentanoic acid (PFPeA)	3.973	0.00	107330	0.0355	0.92	U	Y
Perfluorohexanoic acid (PFHxA)	4.220	-0.01	45276	0.0262	0.68	U	Y
Perfluoroheptanoic acid (PFHpA)	4.405	-0.01	17542	0.0010	0.026	U	Y
Perfluorooctanoic acid (PFOA)	4.576	-0.01	40154	0.0191	0.49	J	Y
Perfluorononanoic acid (PFNA)	4.732	-0.03	2138	-0.0213	0	U	Y
Perfluorodecanoic acid (PFDA)	4.929	-0.01	4705	-0.0028	0	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.118	0.00	14344	0.0142	0.37	U	Y
Perfluorododecanoic acid (PFDoDA)	0		0	0	0	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.450	-0.01	5513	0.0098	0.25	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.610	0.00	27099	0.0193	0.50	U	Y
Perfluorooctane sulfonamide (FOSA)	5.235	+0.00	3369	0.0074	0.19	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.039		1038	0.0314	0.81	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.567	0.00	469	0.0052	0.13	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.922	-0.02	19	0.0006	0.015	U	Y

Prep Amount:	310.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

Printed at 9/19/2019 3:30:48 PM

190917_228

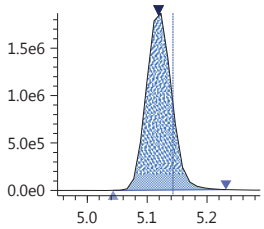
Sample ID: R1908707-001
Date acquired: 9/19/2019 6:55:47 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_228.lcd
Vial: 22 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.119	5558244	5558244	1	5.0000	ng/mL	----
PFBS_1	Auto	4.025	15496	1279861	2	0.0597	ng/mL	----
PFBS-13C	Auto	4.026	1282237	5558244	1	4.9633	ng/mL	----
PFBS-13C_IS	Auto	4.026	1279861	1279861	2	5.0000	ng/mL	----
PFHxS_1	M	4.403	5147	782508	3	-0.0080	ng/mL	----
PFHxS-18O	Auto	4.406	782508	5558244	1	6.1198	ng/mL	----
PFHxS-18O_IS	Auto	4.406	782508	782508	3	5.0000	ng/mL	----
PFHpS_1	NI	----	----	782508	3	----	ng/mL	----
PFOS_1	Auto	4.745	2201	662323	4	0.0242	ng/mL	----
PFOS-13C	Auto	4.746	662323	5558244	1	3.5539	ng/mL	----
PFOS-13C_IS	Auto	4.746	662323	662323	4	5.0000	ng/mL	----
PFDS_1	M	5.089	947	662323	4	0.0104	ng/mL	----
PFBA	Auto	3.421	77364	4282091	5	0.1159	ng/mL	----
PFBA-13C	Auto	3.420	4282091	5558244	1	4.2462	ng/mL	----
PFBA-13C_IS	Auto	3.420	4282091	4282091	5	5.0000	ng/mL	----
PFPeA	Auto	3.973	107330	2017476	6	0.0355	ng/mL	----
PFPeA-13C	Auto	3.973	2017476	5558244	1	3.9379	ng/mL	----
PFPeA-13C_IS	Auto	3.973	2017476	2017476	6	5.0000	ng/mL	----
PFHxA	Auto	4.220	45276	5014788	7	0.0262	ng/mL	----
PFHxA-13C	Auto	4.222	5014788	5558244	1	4.0608	ng/mL	----
PFHxA-13C_IS	Auto	4.222	5014788	5014788	7	5.0000	ng/mL	----
PFHpA	M	4.405	17542	4617069	8	0.0010	ng/mL	----
PFHpA-13C	Auto	4.406	4617069	5558244	1	5.5279	ng/mL	----
PFHpA-13C_IS	Auto	4.406	4617069	4617069	8	5.0000	ng/mL	----
PFOA	M	4.576	40154	5651041	9	0.0191	ng/mL	----
PFOA-13C	Auto	4.578	5651041	5558244	1	4.1997	ng/mL	----
PFOA-13C_IS	Auto	4.578	5651041	5651041	9	5.0000	ng/mL	----
PFNA	M	4.732	2138	3363533	10	-0.0213	ng/mL	----
PFNA-13C	Auto	4.757	3363533	5558244	1	3.5494	ng/mL	----
PFNA-13C_IS	Auto	4.757	3363533	3363533	10	5.0000	ng/mL	----
PFDA	Auto	4.929	4705	3152698	11	-0.0028	ng/mL	----
PFDA-13C	Auto	4.940	3152698	5558244	1	4.0219	ng/mL	----
PFDA-13C_IS	Auto	4.940	3152698	3152698	11	5.0000	ng/mL	----
PFUnA	Auto	5.118	14344	3038962	12	0.0142	ng/mL	----
PFUnA-13C	Auto	5.119	3038962	5558244	1	3.4493	ng/mL	----
PFUnA-13C_IS	Auto	5.119	3038962	3038962	12	5.0000	ng/mL	----
PFDoA	ND(W/B)	----	----	3542445	13	----	ng/mL	----
PFDoA-13C	Auto	5.295	3542445	5558244	1	3.3132	ng/mL	----
PFDoA-13C_IS	Auto	5.295	3542445	3542445	13	5.0000	ng/mL	----
PFTrDA	Auto	5.450	5513	2015455	14	0.0098	ng/mL	----
PFTeDA	Auto	5.610	27099	2015455	14	0.0193	ng/mL	----
PFTeDA-13C	Auto	5.610	2015455	5558244	1	2.3748	ng/mL	----
PFTeDA-13C_IS	Auto	5.610	2015455	2015455	14	5.0000	ng/mL	----
FOSA	M	5.235	3369	1846747	16	0.0074	ng/mL	----
FOSA-13C	Auto	5.237	1846747	5558244	1	3.9881	ng/mL	----
FOSA-13C_IS	Auto	5.237	1846747	1846747	16	5.0000	ng/mL	----
N-MeFOSAA	Auto	5.039	1038	252341	21	0.0314	ng/mL	----
N-MeFOSAA-d3	Auto	5.037	252341	5558244	1	2.9169	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.037	252341	252341	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	255471	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.134	255471	5558244	1	3.2342	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.134	255471	255471	22	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.567	469	428430	24	0.0052	ng/mL	----
6_2-FTS-13C	Auto	4.566	428430	5558244	1	5.1777	ng/mL	----
6_2-FTS-13C_IS	Auto	4.566	428430	428430	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.922	19	231690	25	0.0006	ng/mL	----
8_2-FTS-13C	Auto	4.933	231690	5558244	1	4.2861	ng/mL	----
8_2-FTS-13C_IS	Auto	4.933	231690	231690	25	5.0000	ng/mL	----

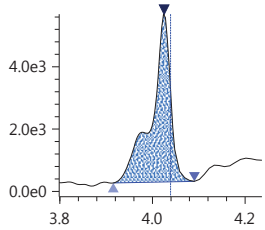
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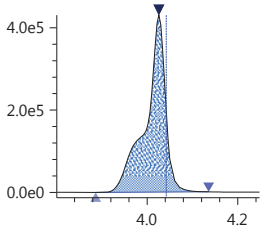
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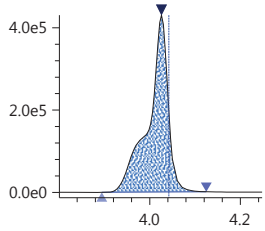
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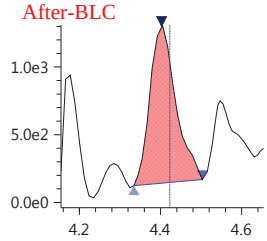
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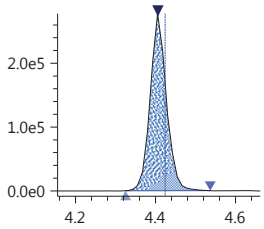
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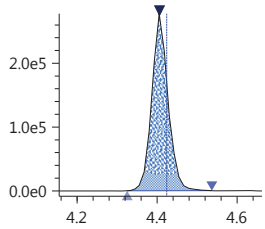
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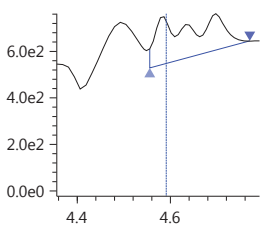
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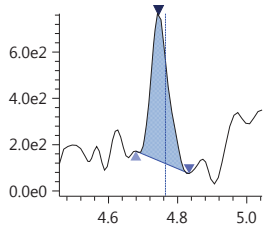
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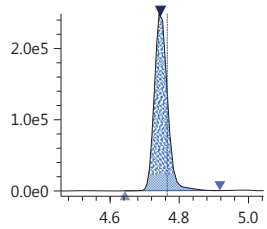
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RT ---- Area ----
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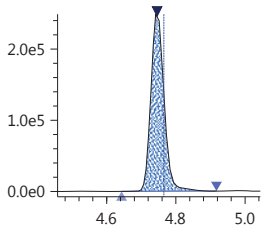
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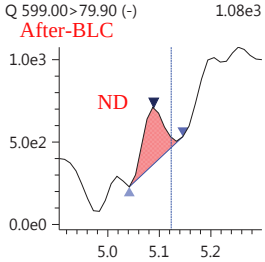
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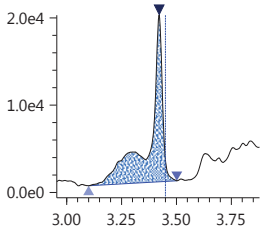
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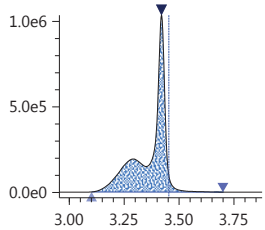
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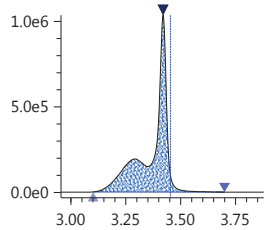
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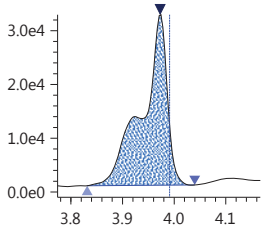
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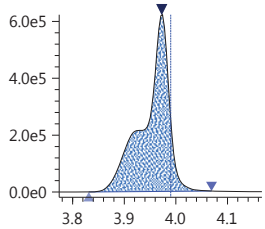
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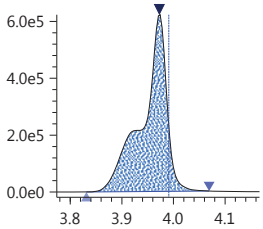
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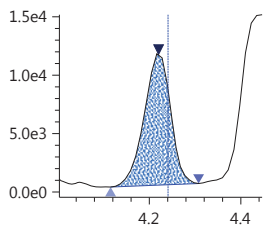
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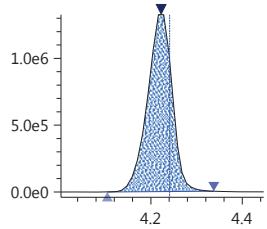
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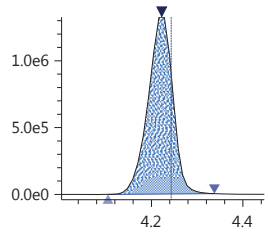
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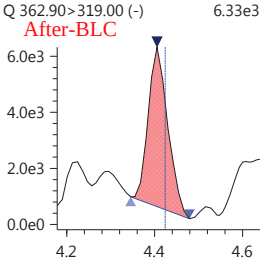
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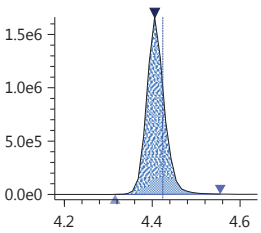
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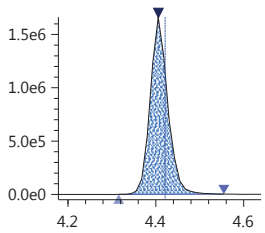
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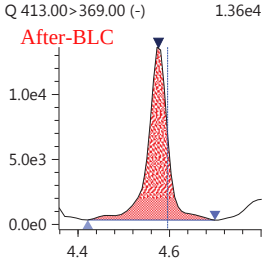
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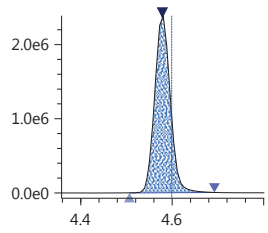
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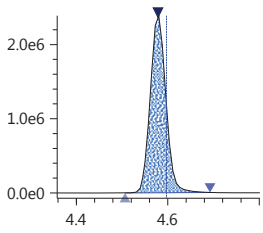
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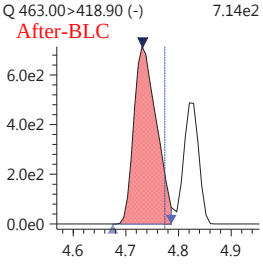
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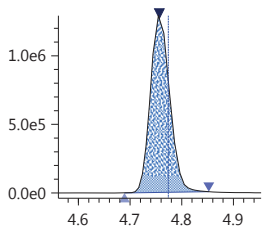
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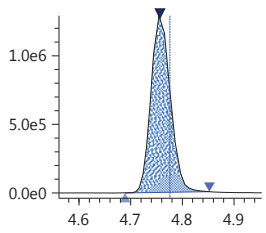
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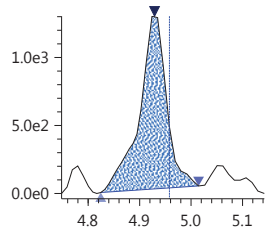
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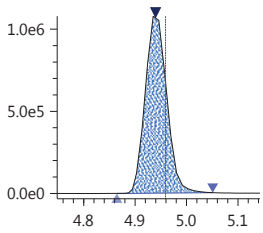
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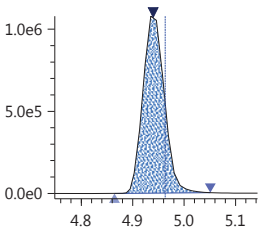
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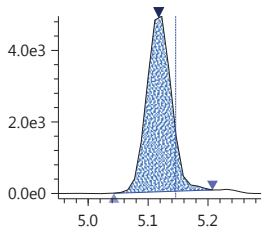
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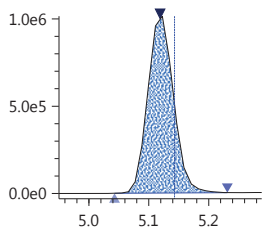
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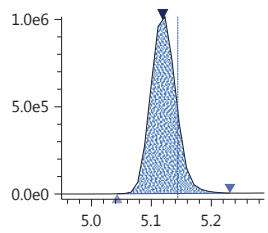
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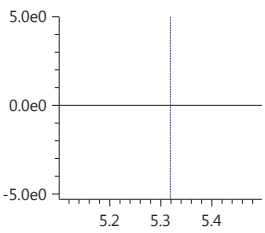
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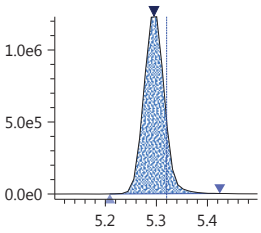
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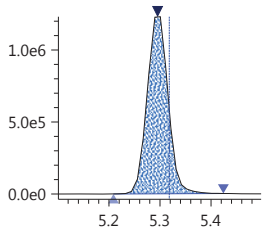
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RT ---- Area ----
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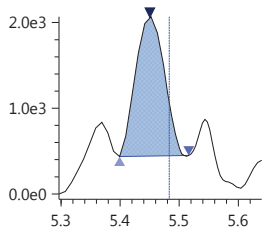
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RT 5.295 Area 3542445
ISTD 614.80>569.95 (-) 1.23e6



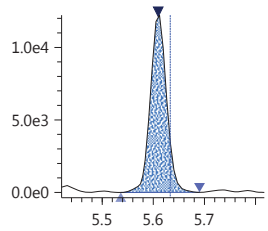
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Conc 0.0098
RT 5.450 Area 5513
Q 663.00>618.90 (-) 2.07e3



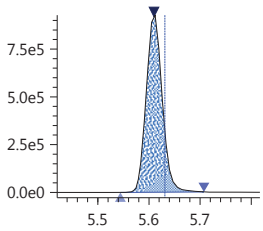
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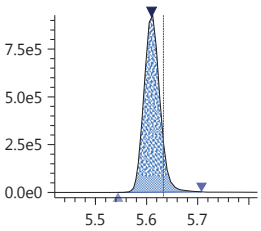
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RT 5.610 Area 27099
Q 713.40>669.00 (-) 1.22e4



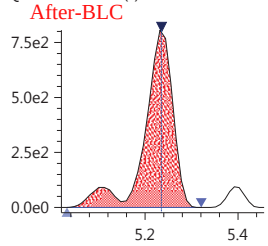
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Conc 2.3748
RT 5.610 Area 2015455
Q 714.70>669.90 (-) 9.27e5



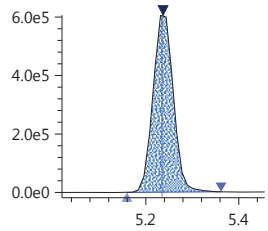
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Conc 5.0000
RT 5.610 Area 2015455
ISTD 714.70>669.90 (-) 9.27e5



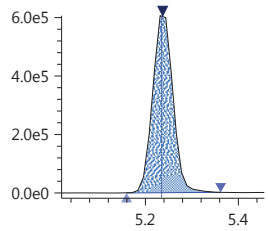
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Conc 0.0074
RT 5.235 Area 3369
Q 498.20>78.00 (-) 8.06e2



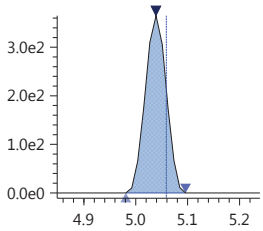
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Q 506.00>78.05 (-) 6.07e5



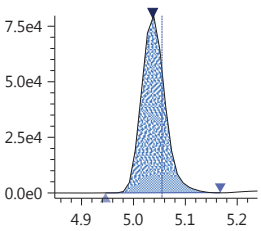
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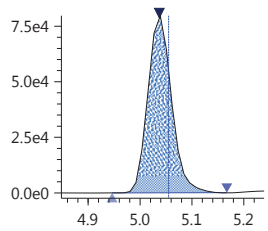
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Conc 0.0314
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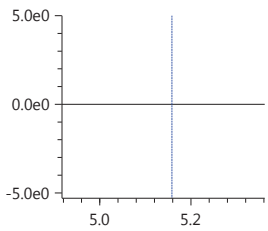
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Conc 2.9169
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Q 572.80>419.05 (-) 7.97e4



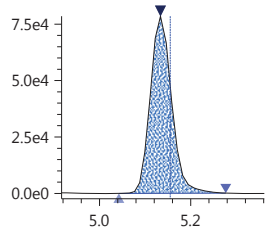
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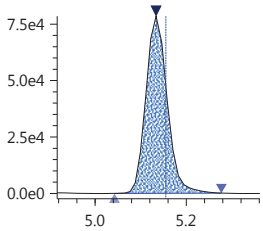
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



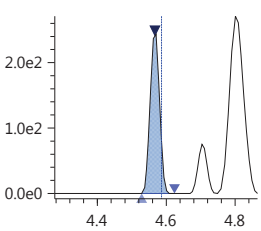
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Q 588.80>419.00 (-) 7.85e4



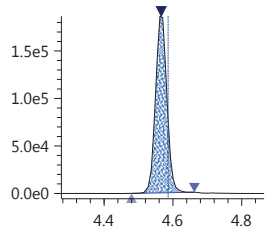
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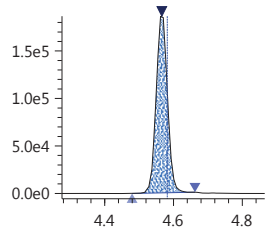
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Conc 0.0052
RT 4.567 Area 469
Q 427.00>407.00 (-) 2.71e2



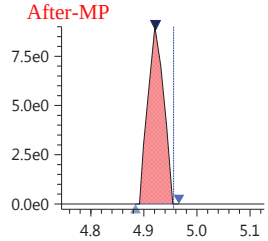
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Conc 5.1777
RT 4.566 Area 428430
Q 428.90>409.00 (-) 1.87e5



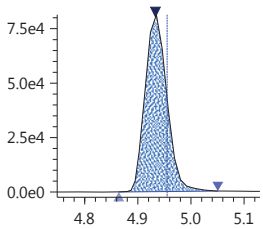
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RT 4.566 Area 428430
ISTD 428.90>409.00 (-) 1.87e5



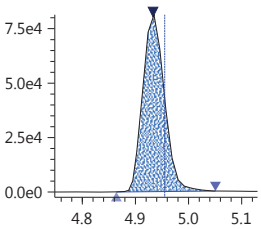
8_2-FTS_1
Conc 0.0006
RT 4.922 Area 19
Q 527.10>506.90 (-) 9.00e0



8_2-FTS-13C
Conc 4.2861
RT 4.933 Area 231690
Q 528.80>509.00 (-) 8.14e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.933 Area 231690
ISTD 528.80>509.00 (-) 8.14e4



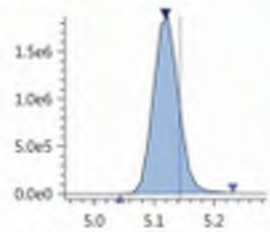
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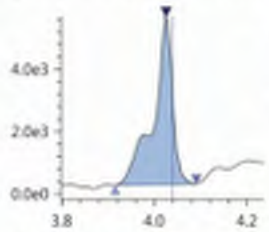
190917_228

Sample ID: R1908707-001
Date acquired: 9/19/2019 6:55:47 AM
Acquired by: System Administrator
Data File: I:\LCMS06\Data\190917_b9\190917_228.lcd
Vial: 22 | Inj. Volume: 15.0000uL | Tray: 3

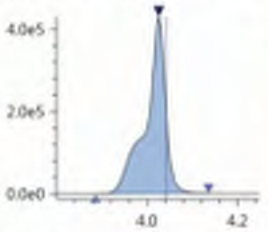
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Conc 5.0000
RT 5.119 Area 5558244
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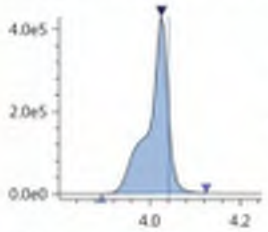
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Q 299.00>80.00 (-) 5.69e3



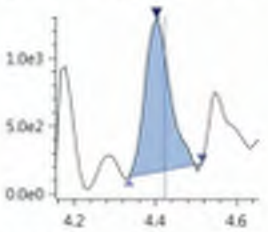
PFBS-13C
Conc 4.9633
RT 4.026 Area 1282237
Q 301.80>80.00 (-) 4.31e5



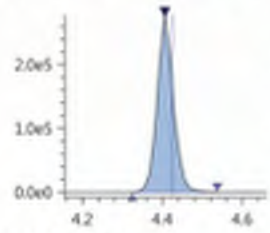
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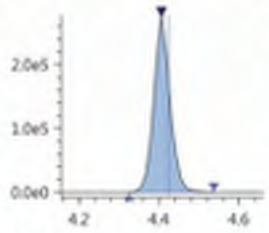
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Conc -0.0095
RT 4.403 Area 4876
Q 399.00>80.00 (-) 1.31e3



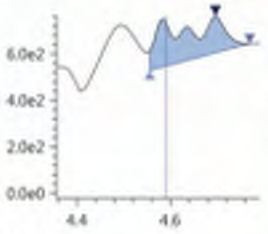
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Q 402.70>84.05 (-) 2.78e5



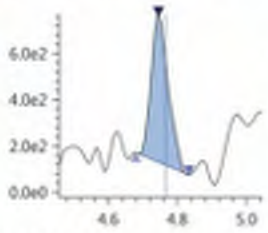
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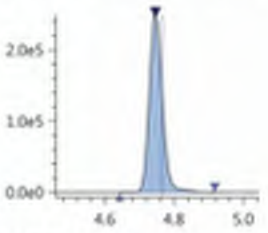
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RT 4.697 Area 1344
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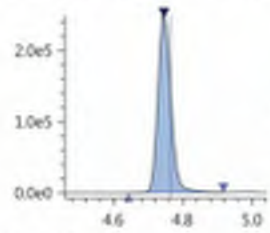
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Conc 0.0242
RT 4.745 Area 2201
Q 499.00>80.00 (-) 7.66e2



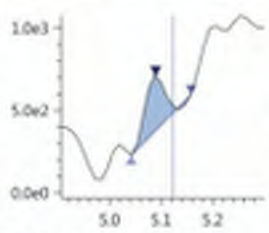
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Q 502.80>80.05 (-) 2.49e5



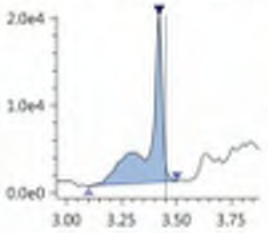
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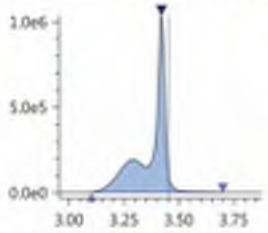
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RT 5.089 Area 856
Q 599.00>79.90 (-) 1.08e3



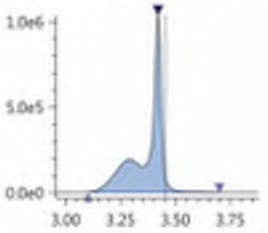
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Conc 0.1159
RT 3.421 Area 77364
Q 213.00>169.10 (-) 2.03e4



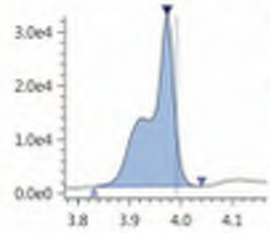
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Conc 4.2462
RT 3.420 Area 4282091
Q 216.90>172.15 (-) 1.04e6



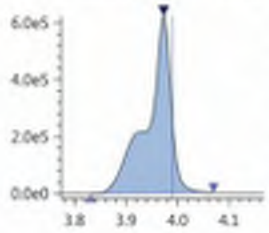
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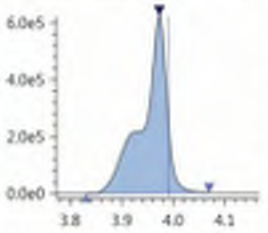
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Q 263.05>219.10 (-) 3.30e4



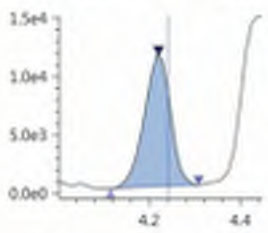
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RT 3.973 Area 2017476
Q 267.90>223.00 (-) 6.24e5



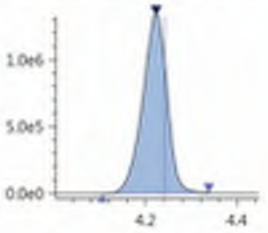
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RT 3.973 Area 2017476
ISTD 267.90>223.00 (-) 6.24e5



PFHxA
Conc 0.0262
RT 4.220 Area 45276
Q 313.00>269.00 (-) 1.52e4



PFHxA-13C
Conc 4.0608
RT 4.222 Area 5014788
Q 314.90>270.10 (-) 1.33e6

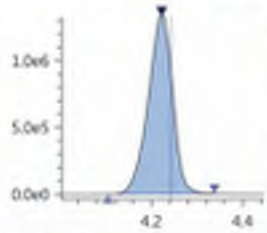


Manual Integration - Before

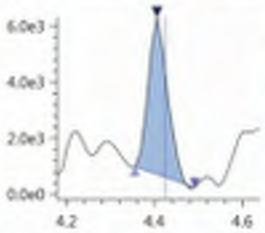
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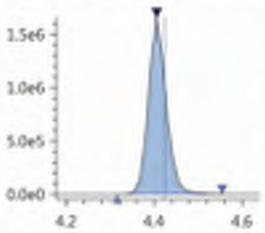
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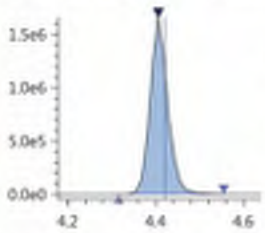
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Conc 0.0002
RT 4.405 Area 16816
Q 362.90>319.00 (-) 6.33e3



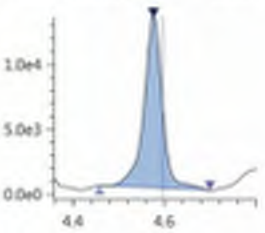
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RT 4.406 Area 4617069
Q 366.90>322.10 (-) 1.66e6



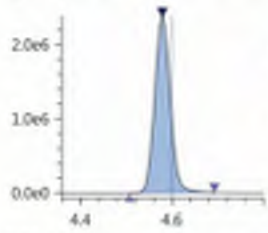
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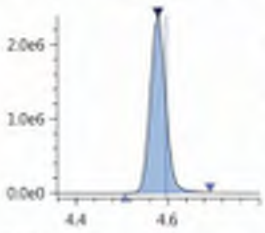
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Q 413.00>369.00 (-) 1.36e4



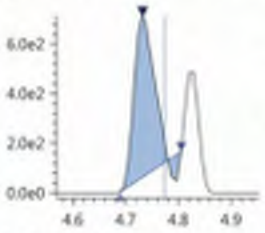
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Q 416.80>372.05 (-) 2.39e6



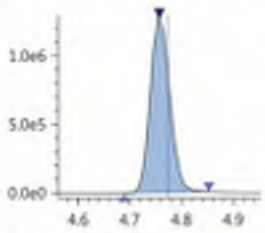
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RT 4.578 Area 5651041
ISTD 416.80>372.05 (-) 2.39e6



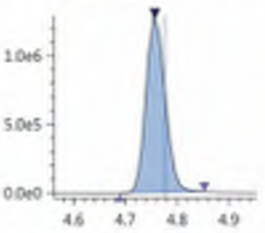
PFNA
Conc -0.0222
RT 4.732 Area 1630
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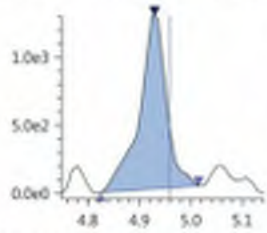
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Conc 3.5494
RT 4.757 Area 3363533
Q 467.80>423.00 (-) 1.29e6



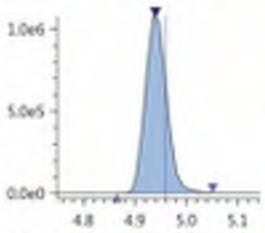
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Conc 5.0000
RT 4.757 Area 3363533
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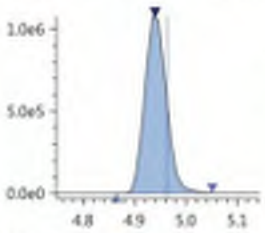
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Conc -0.0028
RT 4.929 Area 4705
Q 513.00>468.80 (-) 1.30e3



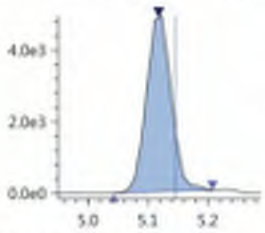
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Conc 4.0219
RT 4.940 Area 3152698
Q 514.80>469.95 (-) 1.08e6



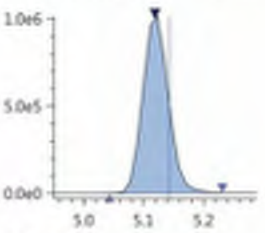
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Conc 5.0000
RT 4.940 Area 3152698
ISTD 514.80>469.95 (-) 1.08e6



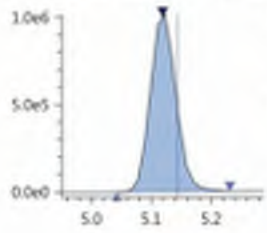
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Conc 0.0142
RT 5.118 Area 14344
Q 563.00>518.90 (-) 4.96e3



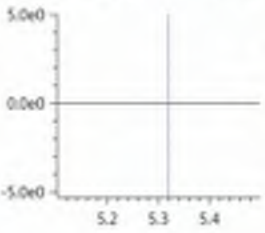
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Conc 3.4493
RT 5.119 Area 3038962
Q 564.80>519.95 (-) 1.02e6



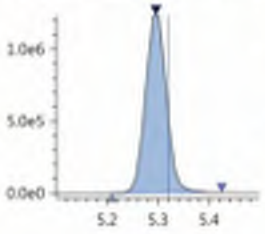
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Conc 5.0000
RT 5.119 Area 3038962
ISTD 564.80>519.95 (-) 1.02e6



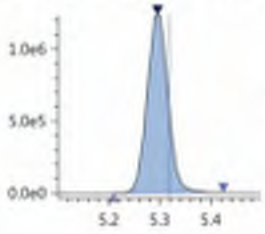
PFDoA
Conc ----
RT ---- Area ----
Q 613.05>569.00 (-) 0.00e0



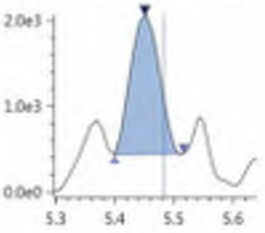
PFDoA-13C
Conc 3.3132
RT 5.295 Area 3542445
Q 614.80>569.95 (-) 1.23e6



PFDoA-13C_IS
Conc 5.0000
RT 5.295 Area 3542445
ISTD 614.80>569.95 (-) 1.23e6



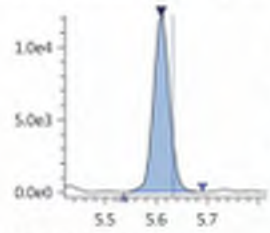
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Conc 0.0098
RT 5.450 Area 5513
Q 663.00>618.90 (-) 2.07e3



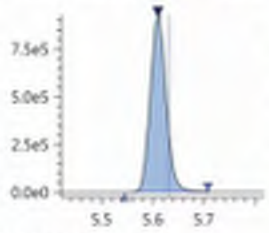
Insight Report

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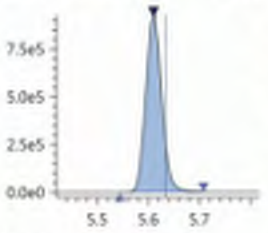
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Conc 0.0193
RT 5.610 Area 27099
Q 713.40>669.00 (-) 1.22e4



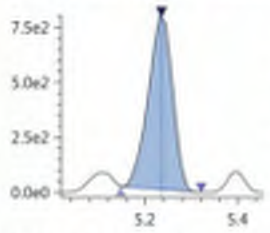
PFTeDA-13C
Conc 2.3748
RT 5.610 Area 2015455
Q 714.70>669.90 (-) 9.27e5



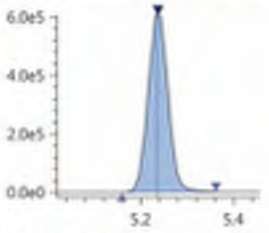
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Conc 5.0000
RT 5.610 Area 2015455
ISTD 714.70>669.90 (-) 9.27e5



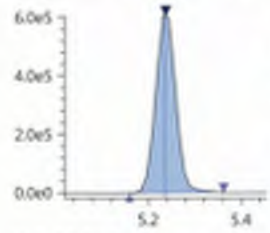
FOSA
Conc 0.0064
RT 5.235 Area 2900
Q 498.20>78.00 (-) 8.06e2



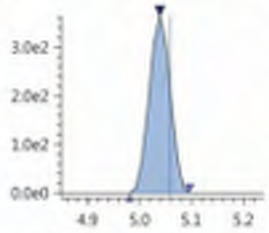
FOSA-13C
Conc 3.9881
RT 5.237 Area 1846747
Q 506.00>78.05 (-) 6.07e5



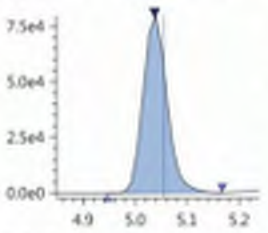
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Conc 5.0000
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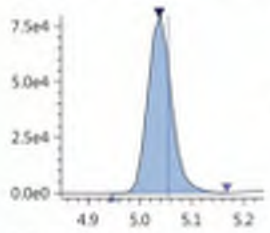
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Conc 0.0314
RT 5.039 Area 1038
Q 570.20>419.00 (-) 3.65e2



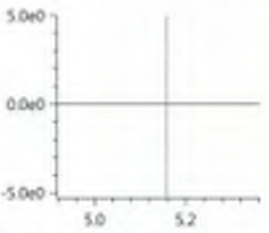
N-MeFOSAA-d3
Conc 2.9169
RT 5.037 Area 252341
Q 572.80>419.05 (-) 7.97e4



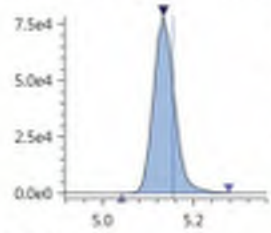
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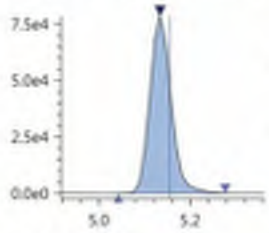
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



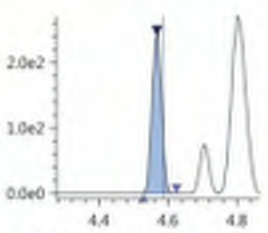
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Conc 3.2342
RT 5.134 Area 255471
Q 588.80>419.00 (-) 7.85e4



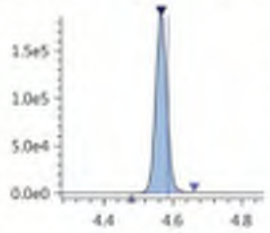
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ISTD 588.80>419.00 (-) 7.85e4



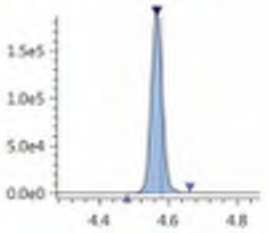
6_2-FTS_1
Conc 0.0052
RT 4.567 Area 469
Q 427.00>407.00 (-) 2.71e2



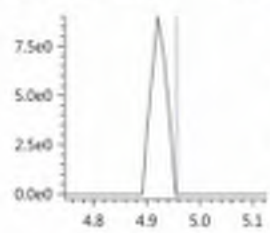
6_2-FTS-13C
Conc 5.1777
RT 4.566 Area 428430
Q 428.90>409.00 (-) 1.87e5



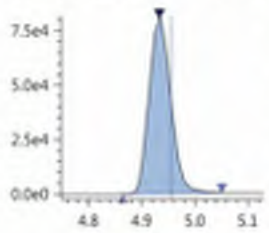
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RT 4.566 Area 428430
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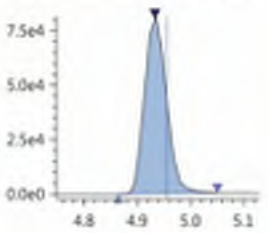
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 9.00e0



8_2-FTS-13C
Conc 4.2861
RT 4.933 Area 231690
Q 528.80>509.00 (-) 8.14e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.933 Area 231690
ISTD 528.80>509.00 (-) 8.14e4



Manual Integration - Before

1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_229
Lab ID: R1908707-002
RunType: N/A
Matrix: Water

Date Acquired: 9/19/19 07:06
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	Narrate high bias, ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	Narrate high bias, ND
	13C3-PFBS	139	70	130	Narrate native ok
	13C4-PFHpA	136	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	Narrate high bias, ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_229	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:06	**Vial:**	6
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-002	**Raw Units:**	ng/mL

Bottle ID:	R1908707-002.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	R1908707
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.118	0.00	6516786	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.017	-0.01	1009874	3.3341	67	20 - 109	Y
18O2-PFHxS	4.403	-0.01	523806	3.4940	70	26 - 122	Y
13C4-PFOS	4.742	-0.01	498519	2.2815	46	25 - 121	Y
13C4-PFBA	3.393	-0.04	3437564	2.9074	58	27 - 124	Y
13C5-PFPeA	3.964	-0.01	1437905	2.3938	48	27 - 138	Y
13C2-PFHxA	4.220	-0.01	3469438	2.3962	48	28 - 132	Y
13C4-PFHpA	4.402	-0.01	3472402	3.5459	71	19 - 139	Y
13C4-PFOA	4.576	-0.01	5274909	3.3436	67	22 - 130	Y
13C5-PFNA	4.754	-0.01	2869706	2.5829	52	20 - 127	Y
13C2-PFDA	4.937	0.00	2657693	2.8917	58	24 - 125	Y
13C2-PFUnDA	5.118	0.00	3750932	3.6312	73	22 - 125	Y
13C2-PFDoDA	5.295	0.00	3609020	2.8790	58	19 - 122	Y
13C2-PFTeDA	5.610	0.00	2241252	2.2524	45	13 - 124	Y
13C8-FOSA	5.236	+0.00	667219	1.2289	25	18 - 109	Y
D3-MeFOSAA	5.034	0.00	246477	2.4301	49	9 - 123	Y
D5-EtFOSAA	5.133	0.00	185059	1.9982	40	12 - 126	Y
13C2-6:2 FTS	4.564	-0.01	450072	4.6392	93	10 - 226	Y
13C2-8:2 FTS	4.931	-0.01	339638	5.3589	107	10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0		0	0	0	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.409	+0.00	8760	0.0350	0.90	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_229	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:06	**Vial:**	6
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-002	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.686	-0.06	13396	0.1958	5.1		Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	0		0	0	0	U	Y
Perfluoropentanoic acid (PFPeA)	3.964	-0.01	113150	0.1078	2.8	J	Y
Perfluorohexanoic acid (PFHxA)	4.219	-0.01	105931	0.1388	3.6	U	Y
Perfluoroheptanoic acid (PFHpA)	4.401	-0.01	71320	0.0870	2.2	J	Y
Perfluorooctanoic acid (PFOA)	4.576	-0.01	1421192	1.6175	42		Y
Perfluorononanoic acid (PFNA)	4.755	-0.01	17430	0.0122	0.31	U	Y
Perfluorodecanoic acid (PFDA)	4.934	-0.01	12170	0.0170	0.44	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.111	-0.01	19371	0.0176	0.45	U	Y
Perfluorododecanoic acid (PFDoDA)	5.289	-0.01	1956	0.0297	0.77	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.461		4521	0.0061	0.16	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.608	0.00	26170	-0.0027	0	U	Y
Perfluorooctane sulfonamide (FOSA)	5.231	0.00	2114	0.0128	0.33	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.562	-0.01	1296	0.0136	0.35	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.933	0.00	230	0.0048	0.12	U	Y

Prep Amount:	310.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

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190917_229

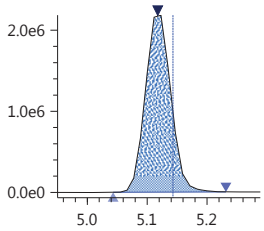
Sample ID: R1908707-002
Date acquired: 9/19/2019 7:06:14 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_229.lcd
Vial: 23 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.118	6516786	6516786	1	5.0000	ng/mL	----
PFBS_1	NI	----	----	1007230	2	----	ng/mL	----
PFBS-13C	Auto	4.017	1009874	6516786	1	3.3341	ng/mL	----
PFBS-13C_IS	Auto	4.017	1007230	1007230	2	5.0000	ng/mL	----
PFHxS_1	Auto	4.409	8760	523806	3	0.0350	ng/mL	----
PFHxS-18O	Auto	4.403	523806	6516786	1	3.4940	ng/mL	----
PFHxS-18O_IS	Auto	4.403	523806	523806	3	5.0000	ng/mL	----
PFHpS_1	NI	----	----	523806	3	----	ng/mL	----
PFOS_1	M	4.686	13396	498519	4	0.1958	ng/mL	----
PFOS-13C	Auto	4.742	498519	6516786	1	2.2815	ng/mL	----
PFOS-13C_IS	Auto	4.742	498519	498519	4	5.0000	ng/mL	----
PFDS_1	NI	----	----	498519	4	----	ng/mL	----
PFBA	NI	----	----	3437564	5	----	ng/mL	----
PFBA-13C	Auto	3.393	3437564	6516786	1	2.9074	ng/mL	----
PFBA-13C_IS	Auto	3.393	3437564	3437564	5	5.0000	ng/mL	----
PFPeA	M	3.964	113150	1437905	6	0.1078	ng/mL	----
PFPeA-13C	Auto	3.964	1437905	6516786	1	2.3938	ng/mL	----
PFPeA-13C_IS	Auto	3.964	1437905	1437905	6	5.0000	ng/mL	----
PFHxA	M	4.219	105931	3469438	7	0.1388	ng/mL	----
PFHxA-13C	Auto	4.220	3469438	6516786	1	2.3962	ng/mL	----
PFHxA-13C_IS	Auto	4.220	3469438	3469438	7	5.0000	ng/mL	----
PFHpA	M	4.401	71320	3472402	8	0.0870	ng/mL	----
PFHpA-13C	Auto	4.402	3472402	6516786	1	3.5459	ng/mL	----
PFHpA-13C_IS	Auto	4.402	3472402	3472402	8	5.0000	ng/mL	----
PFOA	M	4.576	1421192	5274909	9	1.6175	ng/mL	----
PFOA-13C	Auto	4.576	5274909	6516786	1	3.3436	ng/mL	----
PFOA-13C_IS	Auto	4.576	5274909	5274909	9	5.0000	ng/mL	----
PFNA	M	4.755	17430	2869706	10	0.0122	ng/mL	----
PFNA-13C	Auto	4.754	2869706	6516786	1	2.5829	ng/mL	----
PFNA-13C_IS	Auto	4.754	2869706	2869706	10	5.0000	ng/mL	----
PFDA	M	4.934	12170	2657693	11	0.0170	ng/mL	----
PFDA-13C	Auto	4.937	2657693	6516786	1	2.8917	ng/mL	----
PFDA-13C_IS	Auto	4.937	2657693	2657693	11	5.0000	ng/mL	----
PFUnA	Auto	5.111	19371	3750932	12	0.0176	ng/mL	----
PFUnA-13C	Auto	5.118	3750932	6516786	1	3.6312	ng/mL	----
PFUnA-13C_IS	Auto	5.118	3750932	3750932	12	5.0000	ng/mL	----
PFDoA	Auto	5.289	1956	3609020	13	0.0297	ng/mL	----
PFDoA-13C	Auto	5.295	3609020	6516786	1	2.8790	ng/mL	----
PFDoA-13C_IS	Auto	5.295	3609020	3609020	13	5.0000	ng/mL	----
PFTrDA	M	5.461	4521	2241252	14	0.0061	ng/mL	----
PFTeDA	Auto	5.608	26170	2241252	14	-0.0027	ng/mL	----
PFTeDA-13C	Auto	5.610	2241252	6516786	1	2.2524	ng/mL	----
PFTeDA-13C_IS	Auto	5.610	2241252	2241252	14	5.0000	ng/mL	----
FOSA	M	5.231	2114	667219	16	0.0128	ng/mL	----
FOSA-13C	Auto	5.236	667219	6516786	1	1.2289	ng/mL	----
FOSA-13C_IS	Auto	5.236	667219	667219	16	5.0000	ng/mL	----
N-MeFOSAA	ND(W/B)	----	----	246477	21	----	ng/mL	----
N-MeFOSAA-d3	Auto	5.034	246477	6516786	1	2.4301	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.034	246477	246477	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	185059	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.133	185059	6516786	1	1.9982	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.133	185059	185059	22	5.0000	ng/mL	----
6_2-FTS_1	M	4.562	1296	450072	24	0.0136	ng/mL	----
6_2-FTS-13C	Auto	4.564	450072	6516786	1	4.6392	ng/mL	----
6_2-FTS-13C_IS	Auto	4.564	450072	450072	24	5.0000	ng/mL	----
8_2-FTS_1	Auto	4.933	230	339638	25	0.0048	ng/mL	----
8_2-FTS-13C	Auto	4.931	339638	6516786	1	5.3589	ng/mL	----
8_2-FTS-13C_IS	Auto	4.931	339638	339638	25	5.0000	ng/mL	----

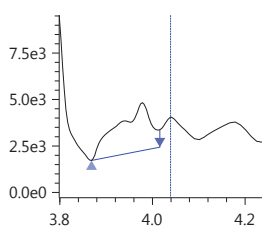
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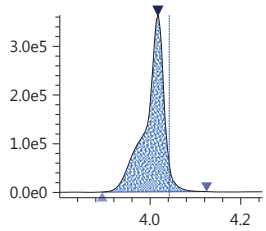
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ISTD 570.00>525.00 (-) 2.19e6



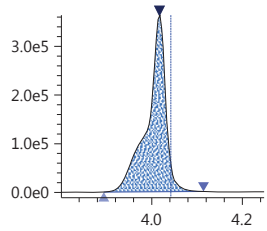
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Conc ----
RT ---- Area ----
Q 299.00>80.00 (-) 9.54e3



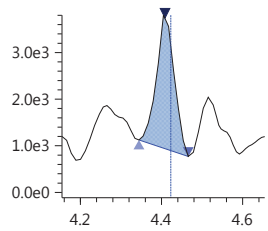
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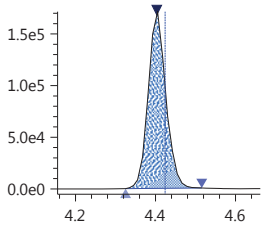
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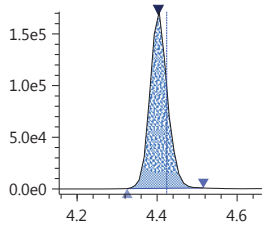
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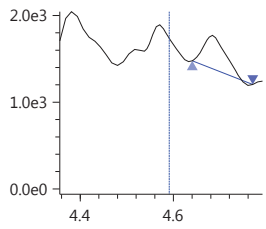
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Conc 3.4940
RT 4.403 Area 523806
Q 402.70>84.05 (-) 1.72e5



PFHxS-18O_IS
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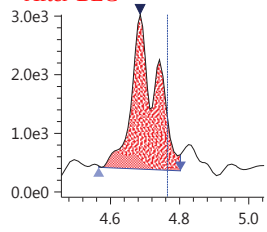


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RT ---- Area ----
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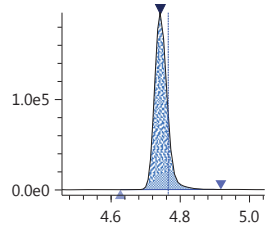


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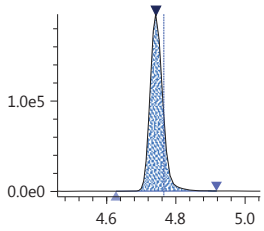
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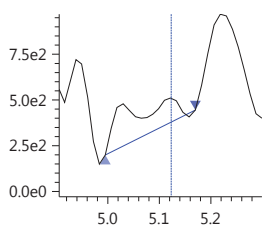
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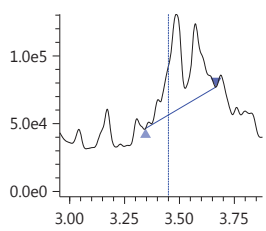
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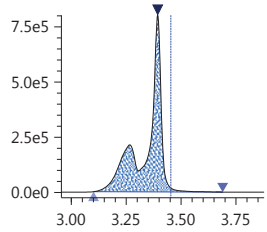
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RT ---- Area ----
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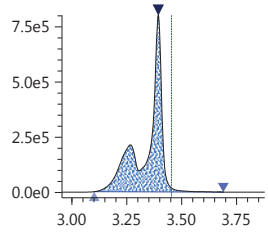
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Conc ----
RT ---- Area ----
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PFBA-13C
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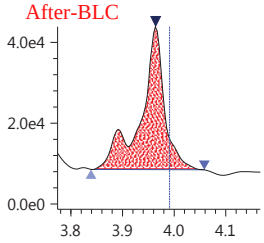


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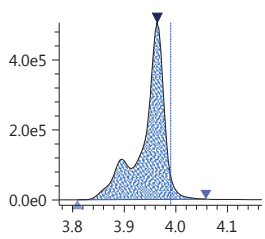


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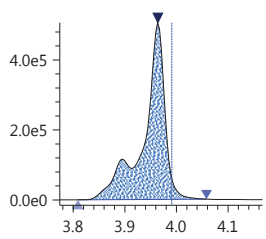
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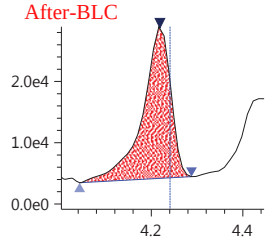


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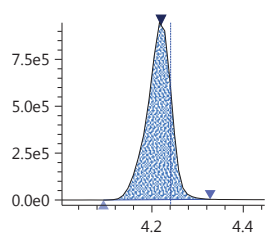


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After-BLC



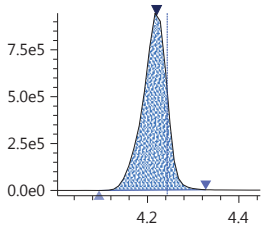
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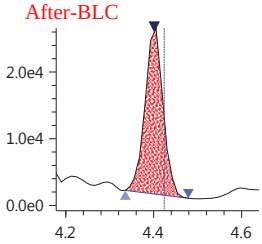
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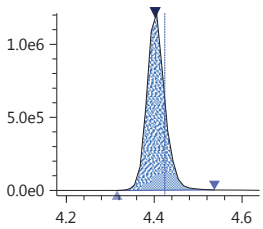
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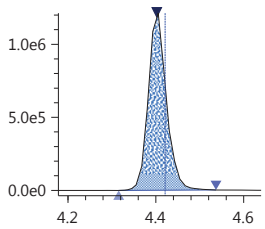
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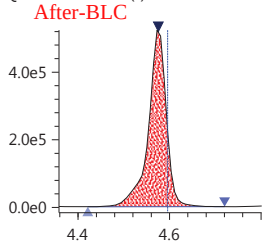
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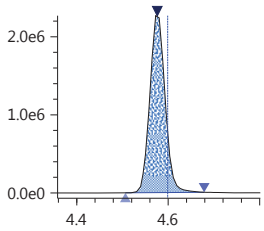
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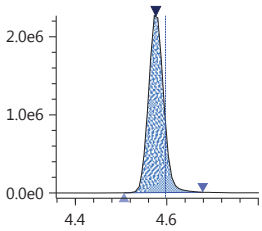
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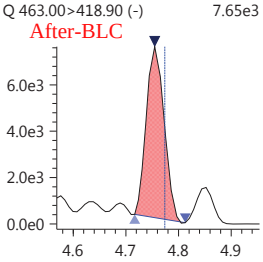
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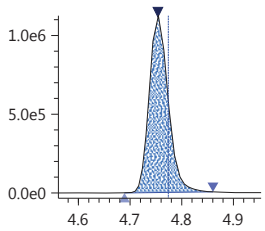
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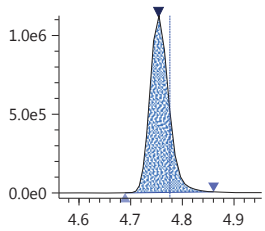
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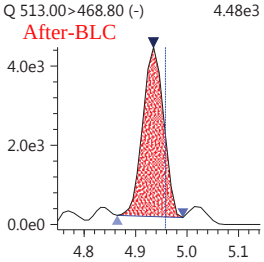
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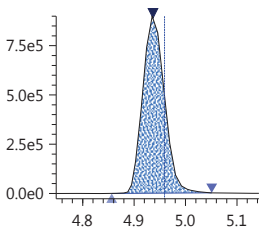
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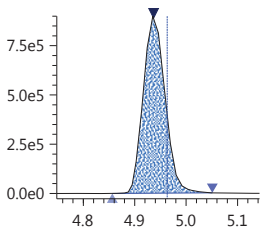
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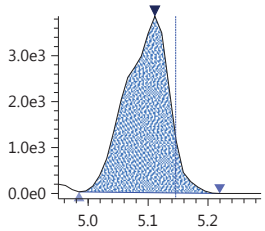
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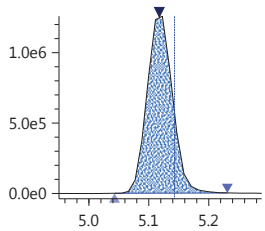
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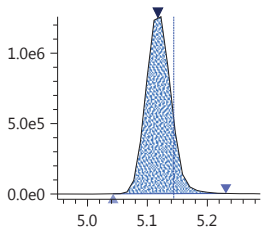
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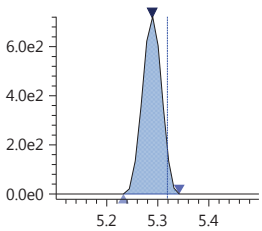
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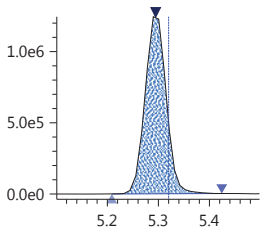
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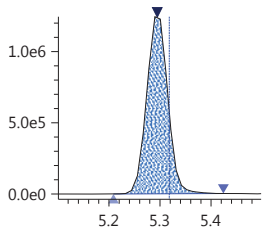
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Conc 0.0297
RT 5.289 Area 1956
Q 613.05>569.00 (-) 7.22e2



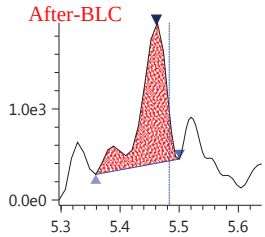
PFDoA-13C
Conc 2.8790
RT 5.295 Area 3609020
Q 614.80>569.95 (-) 1.25e6



PFDoA-13C_IS
Conc 5.0000
RT 5.295 Area 3609020
ISTD 614.80>569.95 (-) 1.25e6



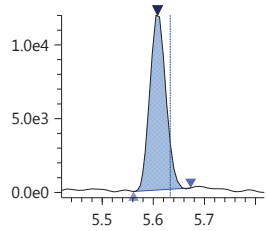
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Conc 0.0061
RT 5.461 Area 4521
Q 663.00>618.90 (-) 1.95e3



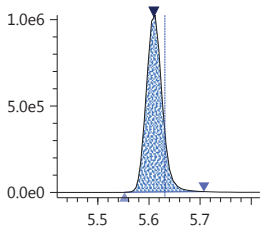
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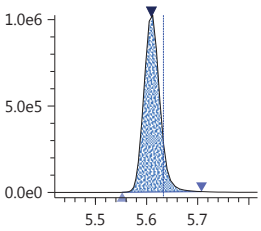
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Conc -0.0027
RT 5.608 Area 26170
Q 713.40>669.00 (-) 1.20e4



PFTeDA-13C
Conc 2.2524
RT 5.610 Area 2241252
Q 714.70>669.90 (-) 1.03e6

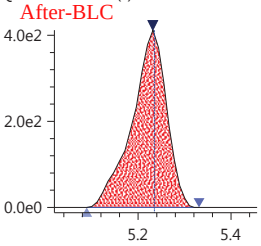


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Conc 5.0000
RT 5.610 Area 2241252
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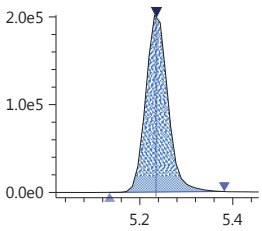


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Conc 0.0128
RT 5.231 Area 2114
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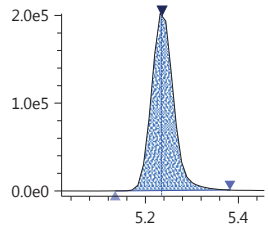
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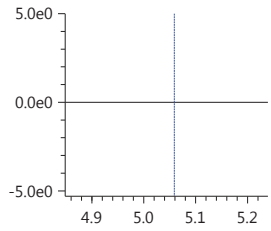
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RT 5.236 Area 667219
Q 506.00>78.05 (-) 2.02e5



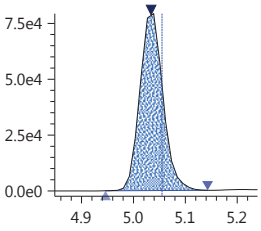
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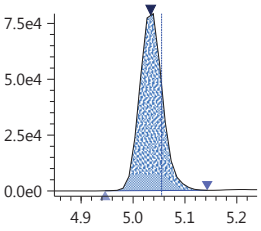
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



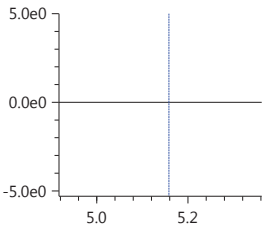
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Conc 2.4301
RT 5.034 Area 246477
Q 572.80>419.05 (-) 7.93e4



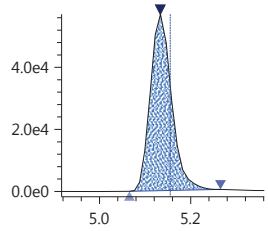
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RT 5.034 Area 246477
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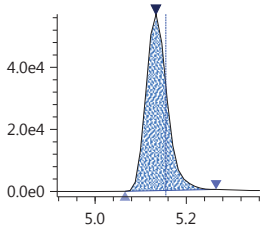
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



N-EtFOSAA-d5
Conc 1.9982
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Q 588.80>419.00 (-) 5.71e4

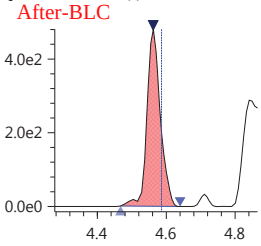


N-EtFOSAA-d5_IS
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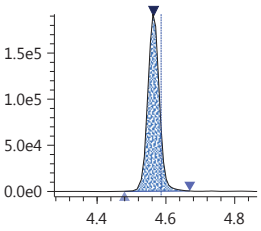


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Conc 0.0136
RT 4.562 Area 1296
Q 427.00>407.00 (-) 4.81e2

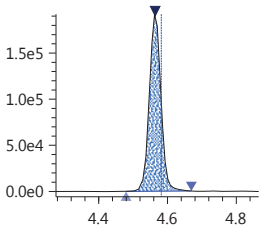
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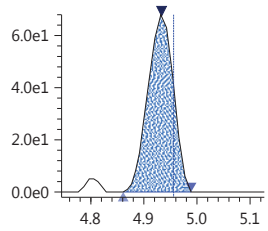
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Conc 4.6392
RT 4.564 Area 450072
Q 428.90>409.00 (-) 1.92e5



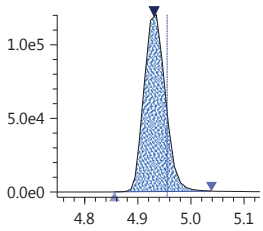
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Conc 5.0000
RT 4.564 Area 450072
ISTD 428.90>409.00 (-) 1.92e5



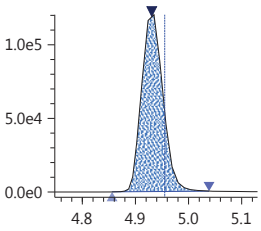
8_2-FTS_1
Conc 0.0048
RT 4.933 Area 230
Q 527.10>506.90 (-) 6.80e1



8_2-FTS-13C
Conc 5.3589
RT 4.931 Area 339638
Q 528.80>509.00 (-) 1.20e5



8_2-FTS-13C_IS
Conc 5.0000
RT 4.931 Area 339638
ISTD 528.80>509.00 (-) 1.20e5



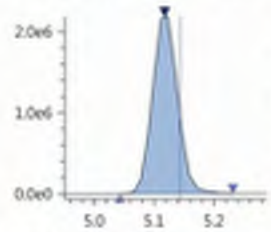
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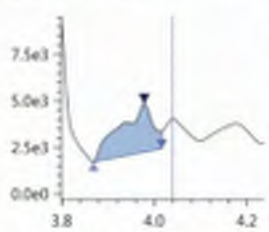
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Date acquired: 9/19/2019 7:06:14 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_229.lcd
Vial: 23 | Inj. Volume: 15.0000uL | Tray: 3

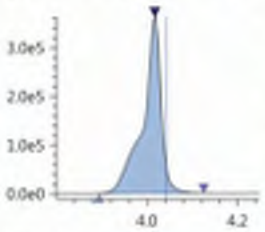
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Conc 5.0000
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ISTD 570.00>525.00 (-) 2.19e6



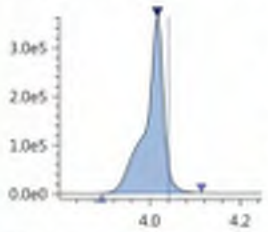
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Conc 0.0642
RT 3.978 Area 13118
Q 299.00>80.00 (-) 9.54e3



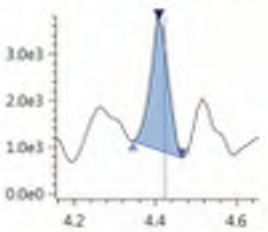
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Q 301.80>80.00 (-) 3.64e5



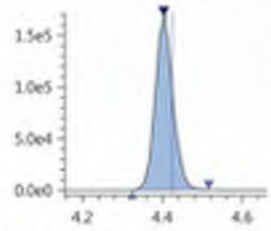
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ISTD 301.80>80.00 (-) 3.64e5



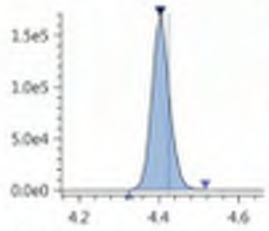
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Conc 0.0350
RT 4.409 Area 8760
Q 399.00>80.00 (-) 3.80e3



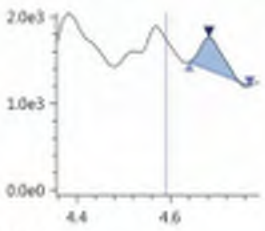
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Conc 3.4940
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Q 402.70>84.05 (-) 1.72e5



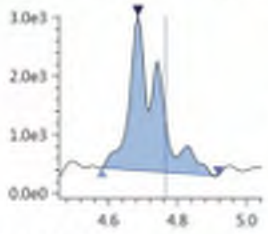
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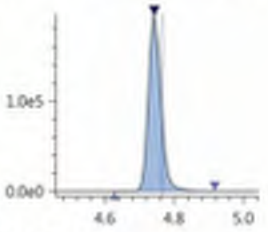
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Q 449.00>80.15 (-) 2.04e3



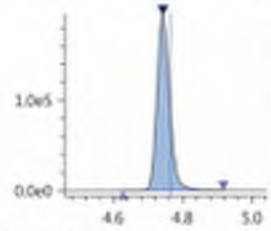
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Q 499.00>80.00 (-) 3.03e3



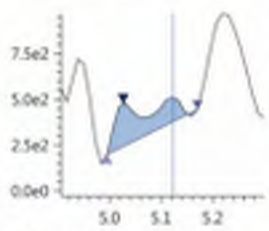
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Q 502.80>80.05 (-) 1.96e5



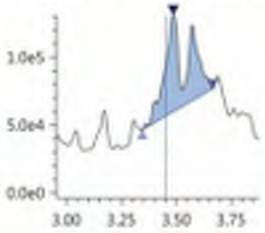
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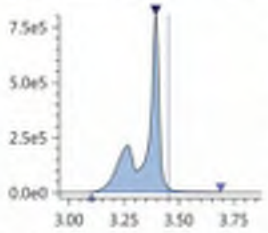
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Conc 0.0169
RT 5.026 Area 1159
Q 599.00>79.90 (-) 9.69e2



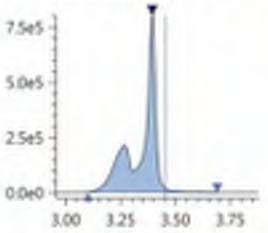
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Conc 0.9408
RT 3.486 Area 504316
Q 213.00>169.10 (-) 1.31e5



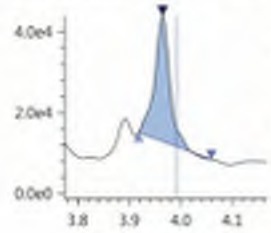
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Q 216.90>172.15 (-) 8.03e5



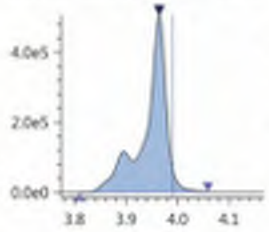
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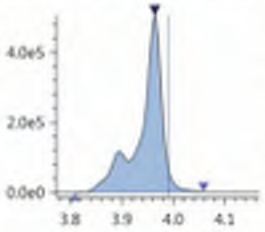
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Q 263.05>219.10 (-) 4.39e4



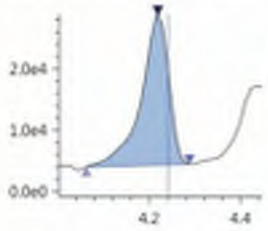
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Q 267.90>223.00 (-) 5.06e5



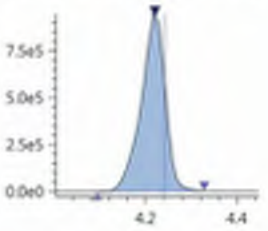
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Conc 5.0000
RT 3.964 Area 1437905
ISTD 267.90>223.00 (-) 5.06e5



PFHxA
Conc 0.1342
RT 4.219 Area 102883
Q 313.00>269.00 (-) 2.89e4



PFHxA-13C
Conc 2.3962
RT 4.220 Area 3469438
Q 314.90>270.10 (-) 9.46e5

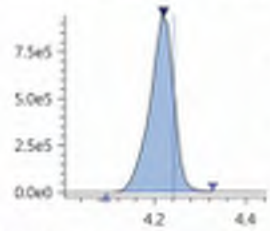


Manual Integration - Before

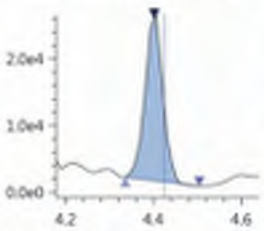
Insight Report

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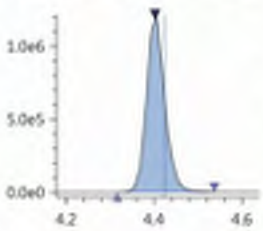
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Conc 5.0000
RT 4.220 Area 3469438
ISTD 314.90>270.10 (-) 9.46e5



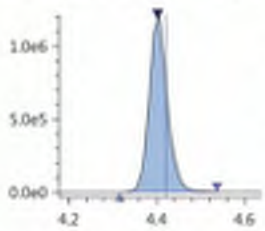
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RT 4.401 Area 70900
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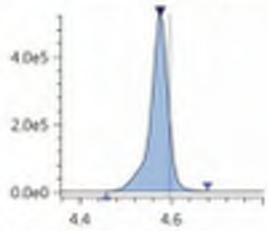
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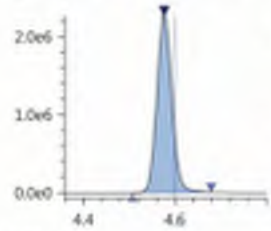
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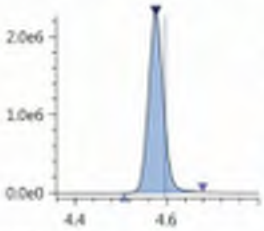
PFOA
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RT 4.576 Area 1405644
Q 413.00>369.00 (-) 5.24e5



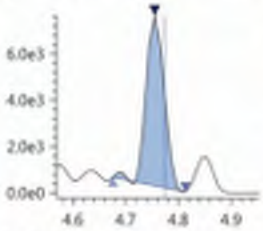
PFOA-13C
Conc 3.3436
RT 4.576 Area 5274909
Q 416.80>372.05 (-) 2.27e6



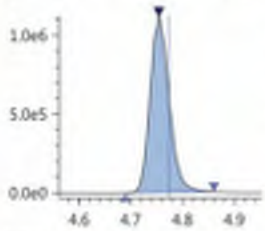
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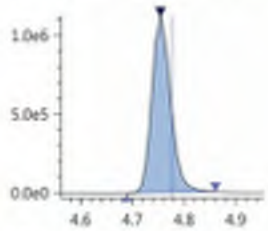
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Conc 0.0123
RT 4.755 Area 17468
Q 463.00>418.90 (-) 7.65e3



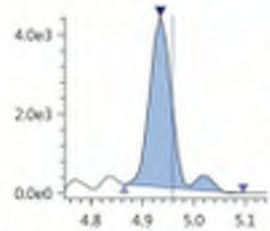
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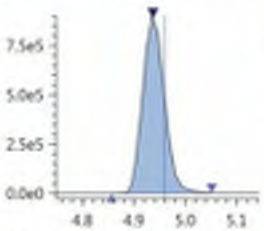
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Conc 5.0000
RT 4.754 Area 2869706
ISTD 467.80>423.00 (-) 1.13e6



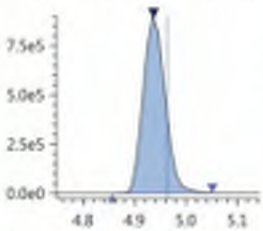
PFDA
Conc 0.0197
RT 4.934 Area 13295
Q 513.00>468.80 (-) 4.48e3



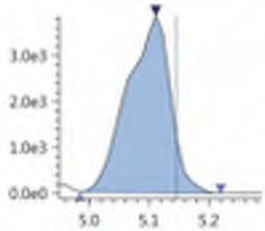
PFDA-13C
Conc 2.8917
RT 4.937 Area 2657693
Q 514.80>469.95 (-) 9.00e5



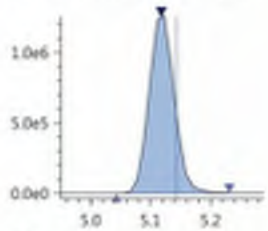
PFDA-13C_IS
Conc 5.0000
RT 4.937 Area 2657693
ISTD 514.80>469.95 (-) 9.00e5



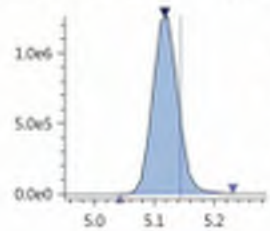
PFUnA
Conc 0.0176
RT 5.111 Area 19371
Q 563.00>518.90 (-) 3.86e3



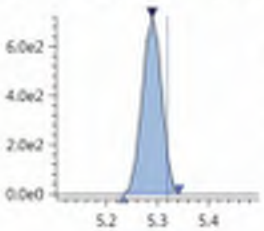
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Conc 3.6312
RT 5.118 Area 3750932
Q 564.80>519.95 (-) 1.26e6



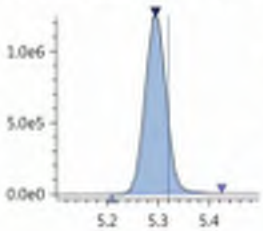
PFUnA-13C_IS
Conc 5.0000
RT 5.118 Area 3750932
ISTD 564.80>519.95 (-) 1.26e6



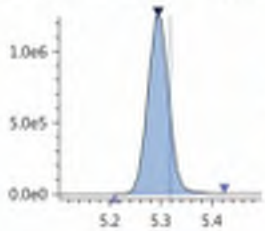
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Conc 0.0297
RT 5.289 Area 1956
Q 613.05>569.00 (-) 7.22e2



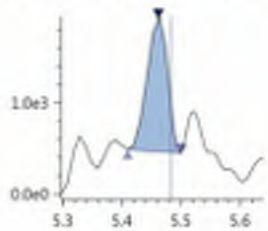
PFDoA-13C
Conc 2.8790
RT 5.295 Area 3609020
Q 614.80>569.95 (-) 1.25e6



PFDoA-13C_IS
Conc 5.0000
RT 5.295 Area 3609020
ISTD 614.80>569.95 (-) 1.25e6



PFTrDA
Conc 0.0039
RT 5.461 Area 3569
Q 663.00>618.90 (-) 1.95e3

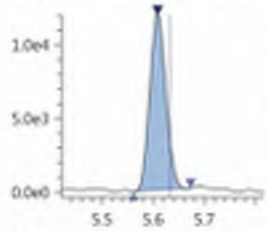


Manual Integration - Before

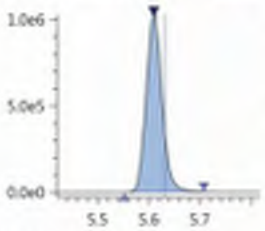
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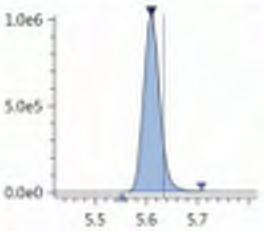
PFTeDA
Conc -0.0027
RT 5.608 Area 26170
Q 713.40>669.00 (-) 1.20e4



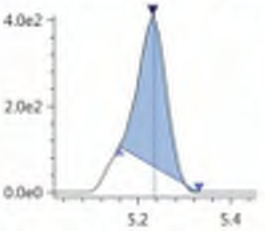
PFTeDA-13C
Conc 2.2524
RT 5.610 Area 2241252
Q 714.70>669.90 (-) 1.03e6



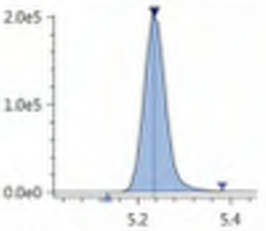
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Conc 5.0000
RT 5.610 Area 2241252
ISTD 714.70>669.90 (-) 1.03e6



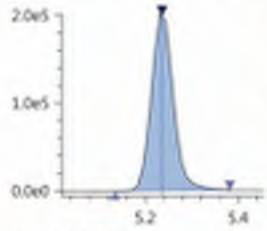
FOSA
Conc 0.0084
RT 5.231 Area 1387
Q 498.20>78.00 (-) 4.12e2



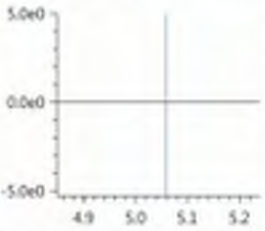
FOSA-13C
Conc 1.2289
RT 5.236 Area 667219
Q 506.00>78.05 (-) 2.02e5



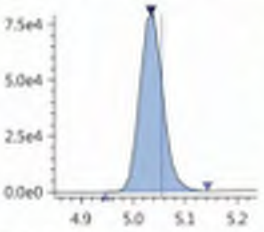
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RT 5.236 Area 667219
ISTD 506.00>78.05 (-) 2.02e5



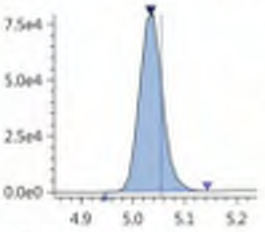
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



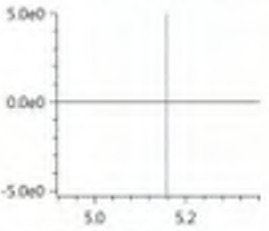
N-MeFOSAA-d3
Conc 2.4301
RT 5.034 Area 246477
Q 572.80>419.05 (-) 7.93e4



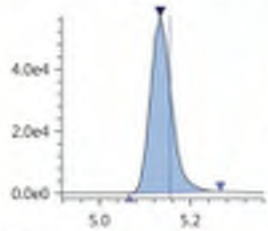
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RT 5.034 Area 246477
ISTD 572.80>419.05 (-) 7.93e4



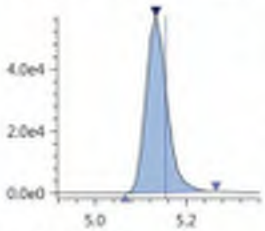
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



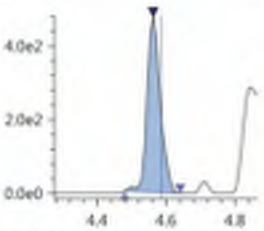
N-EtFOSAA-d5
Conc 1.9982
RT 5.133 Area 185059
Q 588.80>419.00 (-) 5.71e4



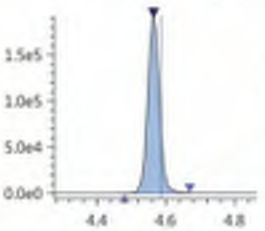
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Conc 5.0000
RT 5.133 Area 185059
ISTD 588.80>419.00 (-) 5.71e4



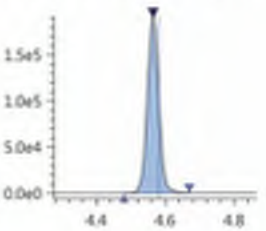
6_2-FTS_1
Conc 0.0133
RT 4.562 Area 1264
Q 427.00>407.00 (-) 4.81e2



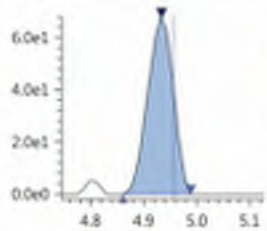
6_2-FTS-13C
Conc 4.6392
RT 4.564 Area 450072
Q 428.90>409.00 (-) 1.92e5



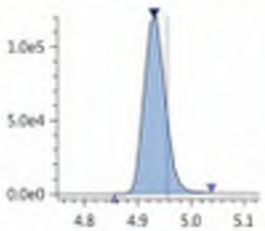
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Conc 5.0000
RT 4.564 Area 450072
ISTD 428.90>409.00 (-) 1.92e5



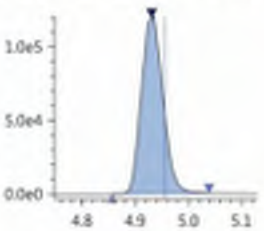
8_2-FTS_1
Conc 0.0048
RT 4.933 Area 230
Q 527.10>506.90 (-) 6.80e1



8_2-FTS-13C
Conc 5.3589
RT 4.931 Area 339638
Q 528.80>509.00 (-) 1.20e5



8_2-FTS-13C_IS
Conc 5.0000
RT 4.931 Area 339638
ISTD 528.80>509.00 (-) 1.20e5



1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_232
Lab ID: R1908707-003
RunType: N/A
Matrix: Water

Date Acquired: 9/19/19 07:37
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	Narrate high bias, ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	Narrate high bias, ND
	13C3-PFBS	139	70	130	Narrate native ok
	13C4-PFHpA	136	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	Narrate high bias, ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_232	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:37	**Vial:**	9
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-003	**Raw Units:**	ng/mL

Bottle ID:	R1908707-003.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	R1908707
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.118	0.00	4924886	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.024	-0.01	1107294	4.8374	97	20 - 109	Y
18O2-PFHxS	4.403	-0.01	664172	5.8623	117	26 - 122	Y
13C4-PFOS	4.742	-0.01	659471	3.9937	80	25 - 121	Y
13C4-PFBA	3.418	-0.01	4820865	5.3953	108	27 - 124	Y
13C5-PFPeA	3.971	-0.01	1744277	3.8425	77	27 - 138	Y
13C2-PFHxA	4.218	-0.01	4102575	3.7494	75	28 - 132	Y
13C4-PFHpA	4.403	-0.01	3596192	4.8594	97	19 - 139	Y
13C4-PFOA	4.576	-0.01	4726034	3.9640	79	22 - 130	Y
13C5-PFNA	4.754	-0.01	3105806	3.6989	74	20 - 127	Y
13C2-PFDA	4.937	0.00	3064564	4.4123	88	24 - 125	Y
13C2-PFUnDA	5.118	0.00	3261251	4.1776	84	22 - 125	Y
13C2-PFDoDA	5.295	0.00	3947200	4.1665	83	19 - 122	Y
13C2-PFTeDA	5.607	0.00	2928779	3.8947	78	13 - 124	Y
13C8-FOSA	5.236	+0.00	1413858	3.4459	69	18 - 109	Y
D3-MeFOSAA	5.038	+0.00	240036	3.1315	63	9 - 123	Y
D5-EtFOSAA	5.134		216233	3.0895	62	12 - 126	Y
13C2-6:2 FTS	4.564	-0.01	390052	5.3201	106	10 - 226	Y
13C2-8:2 FTS	4.930	-0.01	357495	7.4639	149	10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.022	-0.01	1544	0.0069	0.18	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.404	0.00	5512	-0.0007	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_232	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:37	**Vial:**	9
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-003	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.735	-0.01	1549	0.0171	0.46	J	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	3.419	-0.01	183155	0.2436	6.5		Y
Perfluoropentanoic acid (PFPeA)	3.971	-0.01	99740	0.0468	1.2	U	Y
Perfluorohexanoic acid (PFHxA)	4.208	-0.02	30630	0.0181	0.48	U	Y
Perfluoroheptanoic acid (PFHpA)	4.387	-0.02	14139	0.0017	0.045	U	Y
Perfluorooctanoic acid (PFOA)	4.574	-0.01	24511	0.0074	0.20	U	Y
Perfluorononanoic acid (PFNA)	4.751	-0.01	11361	-0.0026	0	U	Y
Perfluorodecanoic acid (PFDA)	4.949	+0.01	3915	-0.0042	0	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.119	0.00	5746	-0.0085	0	U	Y
Perfluorododecanoic acid (PFDoDA)	5.291	-0.01	2602	0.0308	0.82	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.502	+0.04	4327	0.0034	0.091	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.607	0.00	35262	0.0018	0.048	U	Y
Perfluorooctane sulfonamide (FOSA)	5.239	+0.01	1536	0.0044	0.12	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.056	+0.02	688	0.0218	0.58	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.562	-0.01	730	0.0089	0.24	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.918	-0.02	103	0.0020	0.053	U	Y

Prep Amount:	300.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

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190917_232

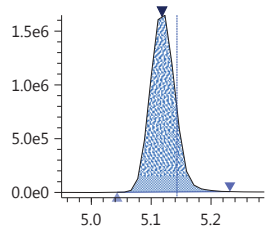
Sample ID: R1908707-003
Date acquired: 9/19/2019 7:37:37 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_232.lcd
Vial: 26 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.118	4924886	4924886	1	5.0000	ng/mL	----
PFBS_1	Auto	4.022	1544	1106187	2	0.0069	ng/mL	----
PFBS-13C	Auto	4.024	1107294	4924886	1	4.8374	ng/mL	----
PFBS-13C_IS	Auto	4.024	1106187	1106187	2	5.0000	ng/mL	----
PFHxS_1	M	4.404	5512	664172	3	-0.0007	ng/mL	----
PFHxS-18O	Auto	4.403	664172	4924886	1	5.8623	ng/mL	----
PFHxS-18O_IS	Auto	4.403	664172	664172	3	5.0000	ng/mL	----
PFHpS_1	NI	----	----	664172	3	----	ng/mL	----
PFOS_1	Auto	4.735	1549	659471	4	0.0171	ng/mL	----
PFOS-13C	Auto	4.742	659471	4924886	1	3.9937	ng/mL	----
PFOS-13C_IS	Auto	4.742	659471	659471	4	5.0000	ng/mL	----
PFDS_1	NI	----	----	659471	4	----	ng/mL	----
PFBA	Auto	3.419	183155	4820865	5	0.2436	ng/mL	----
PFBA-13C	Auto	3.418	4820865	4924886	1	5.3953	ng/mL	----
PFBA-13C_IS	Auto	3.418	4820865	4820865	5	5.0000	ng/mL	----
PFPeA	Auto	3.971	99740	1744277	6	0.0468	ng/mL	----
PFPeA-13C	Auto	3.971	1744277	4924886	1	3.8425	ng/mL	----
PFPeA-13C_IS	Auto	3.971	1744277	1744277	6	5.0000	ng/mL	----
PFHxA	M	4.208	30630	4102575	7	0.0181	ng/mL	----
PFHxA-13C	Auto	4.218	4102575	4924886	1	3.7494	ng/mL	----
PFHxA-13C_IS	Auto	4.218	4102575	4102575	7	5.0000	ng/mL	----
PFHpA	M	4.387	14139	3596192	8	0.0017	ng/mL	----
PFHpA-13C	Auto	4.403	3596192	4924886	1	4.8594	ng/mL	----
PFHpA-13C_IS	Auto	4.403	3596192	3596192	8	5.0000	ng/mL	----
PFOA	Auto	4.574	24511	4726034	9	0.0074	ng/mL	----
PFOA-13C	Auto	4.576	4726034	4924886	1	3.9640	ng/mL	----
PFOA-13C_IS	Auto	4.576	4726034	4726034	9	5.0000	ng/mL	----
PFNA	Auto	4.751	11361	3105806	10	-0.0026	ng/mL	----
PFNA-13C	Auto	4.754	3105806	4924886	1	3.6989	ng/mL	----
PFNA-13C_IS	Auto	4.754	3105806	3105806	10	5.0000	ng/mL	----
PFDA	Auto	4.949	3915	3064564	11	-0.0042	ng/mL	----
PFDA-13C	Auto	4.937	3064564	4924886	1	4.4123	ng/mL	----
PFDA-13C_IS	Auto	4.937	3064564	3064564	11	5.0000	ng/mL	----
PFUnA	Auto	5.119	5746	3261251	12	-0.0085	ng/mL	----
PFUnA-13C	Auto	5.118	3261251	4924886	1	4.1776	ng/mL	----
PFUnA-13C_IS	Auto	5.118	3261251	3261251	12	5.0000	ng/mL	----
PFDoA	Auto	5.291	2602	3947200	13	0.0308	ng/mL	----
PFDoA-13C	Auto	5.295	3947200	4924886	1	4.1665	ng/mL	----
PFDoA-13C_IS	Auto	5.295	3947200	3947200	13	5.0000	ng/mL	----
PFTrDA	Auto	5.502	4327	2928779	14	0.0034	ng/mL	----
PFTeDA	Auto	5.607	35262	2928779	14	0.0018	ng/mL	----
PFTeDA-13C	Auto	5.607	2928779	4924886	1	3.8947	ng/mL	----
PFTeDA-13C_IS	Auto	5.607	2928779	2928779	14	5.0000	ng/mL	----
FOSA	M	5.239	1536	1413858	16	0.0044	ng/mL	----
FOSA-13C	Auto	5.236	1413858	4924886	1	3.4459	ng/mL	----
FOSA-13C_IS	Auto	5.236	1413858	1413858	16	5.0000	ng/mL	----
N-MeFOSAA	Auto	5.056	688	240036	21	0.0218	ng/mL	----
N-MeFOSAA-d3	Auto	5.038	240036	4924886	1	3.1315	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.038	240036	240036	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	216233	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.134	216233	4924886	1	3.0895	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.134	216233	216233	22	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.562	730	390052	24	0.0089	ng/mL	----
6_2-FTS-13C	Auto	4.564	390052	4924886	1	5.3201	ng/mL	----
6_2-FTS-13C_IS	Auto	4.564	390052	390052	24	5.0000	ng/mL	----
8_2-FTS_1	Auto	4.918	103	357495	25	0.0020	ng/mL	----
8_2-FTS-13C	Auto	4.930	357495	4924886	1	7.4639	ng/mL	----
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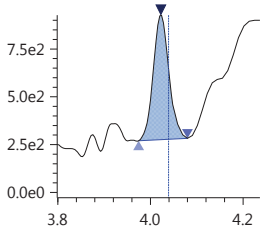
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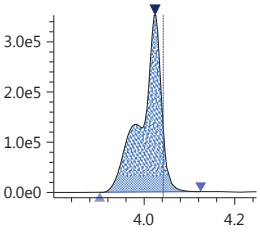
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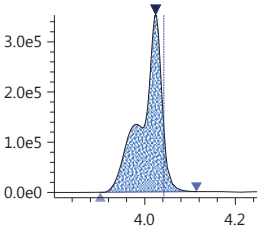
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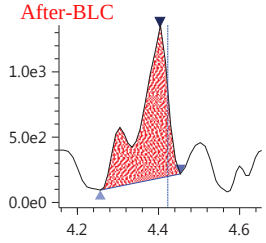
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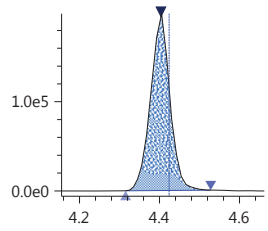
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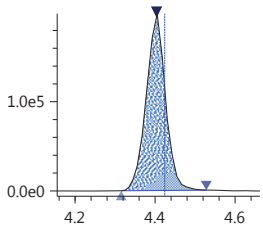
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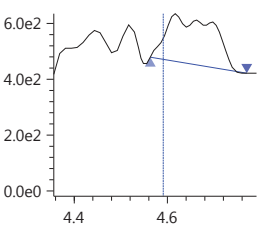
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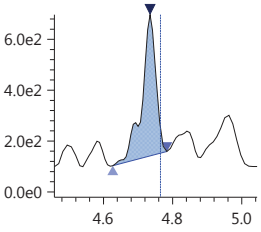
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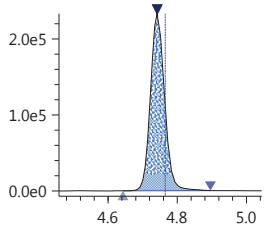
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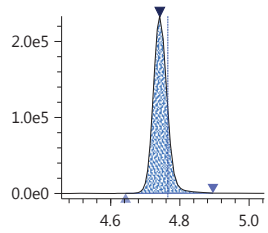
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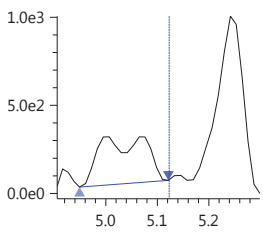
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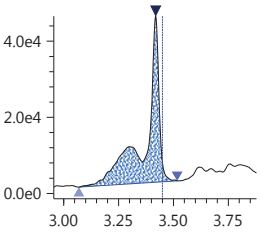
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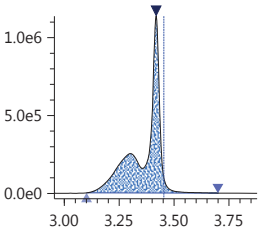
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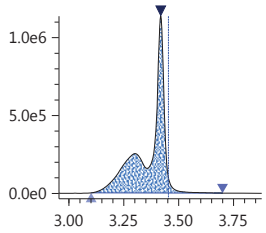
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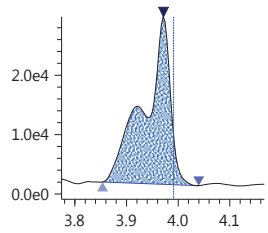
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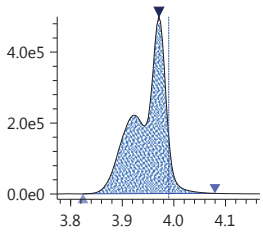
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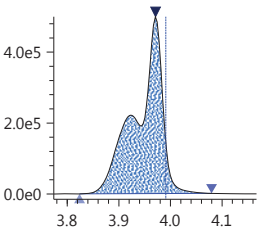
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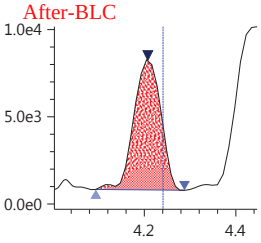
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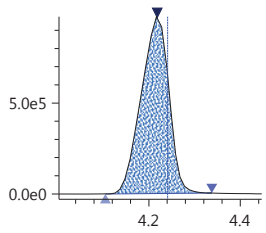
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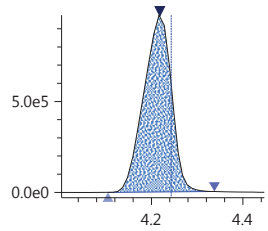
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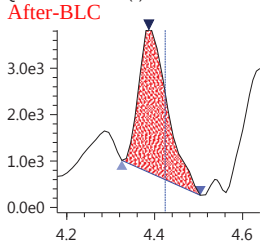
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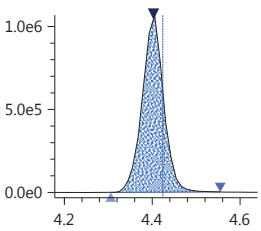
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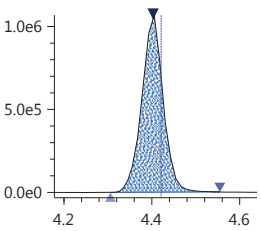
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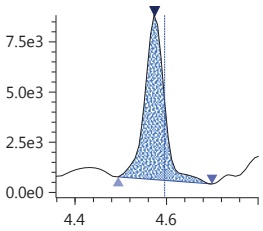
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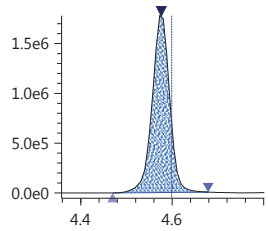
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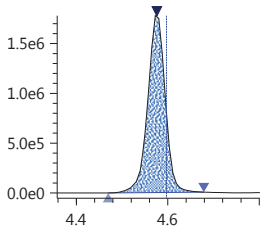
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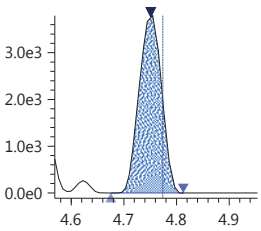
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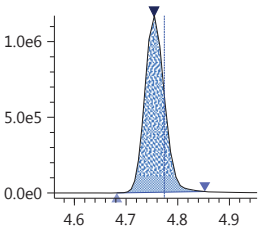
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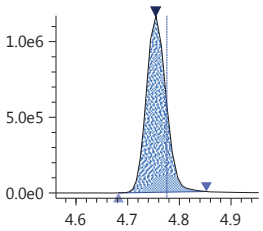
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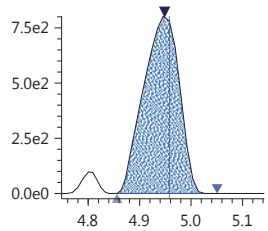
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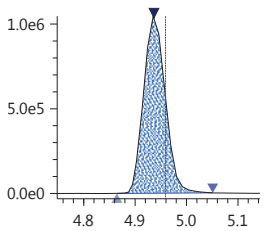
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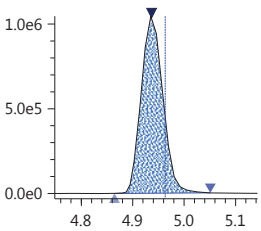
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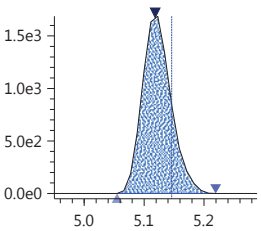
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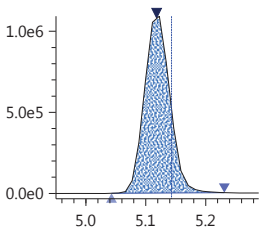
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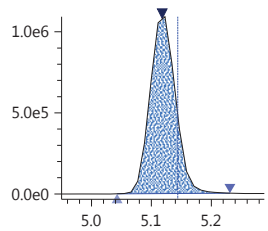
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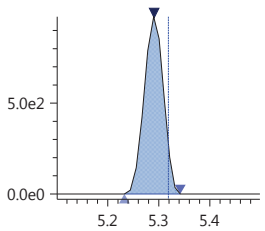
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Conc 4.1776
RT 5.118 Area 3261251
Q 564.80>519.95 (-) 1.09e6



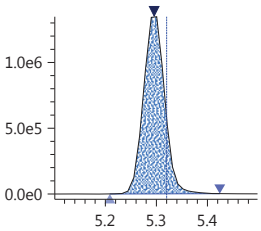
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Conc 5.0000
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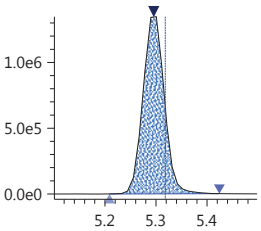
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Conc 0.0308
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Q 613.05>569.00 (-) 9.76e2



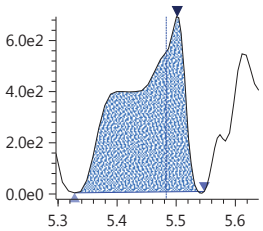
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Conc 4.1665
RT 5.295 Area 3947200
Q 614.80>569.95 (-) 1.35e6



PFDoA-13C_IS
Conc 5.0000
RT 5.295 Area 3947200
ISTD 614.80>569.95 (-) 1.35e6



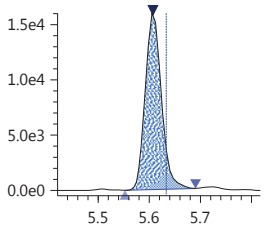
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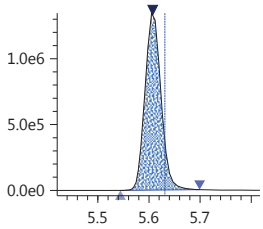
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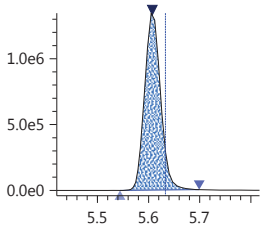
PFTeDA
Conc 0.0018
RT 5.607 Area 35262
Q 713.40>669.00 (-) 1.60e4



PFTeDA-13C
Conc 3.8947
RT 5.607 Area 2928779
Q 714.70>669.90 (-) 1.35e6

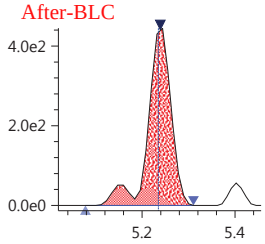


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ISTD 714.70>669.90 (-) 1.35e6

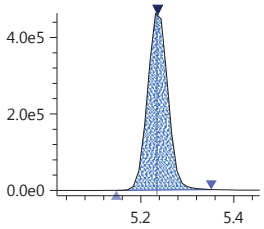


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Conc 0.0044
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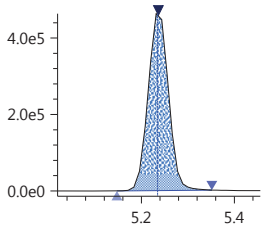
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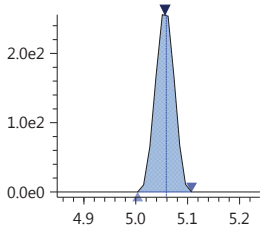
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Q 506.00>78.05 (-) 4.64e5



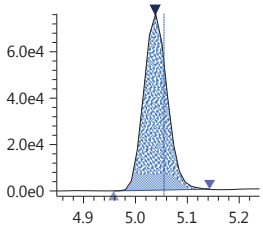
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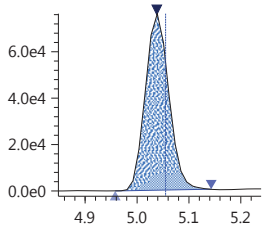
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Q 570.20>419.00 (-) 2.56e2



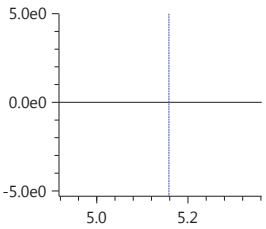
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Conc 3.1315
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Q 572.80>419.05 (-) 7.64e4



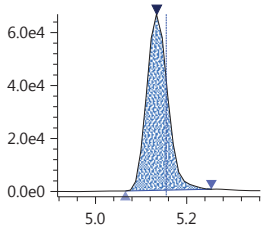
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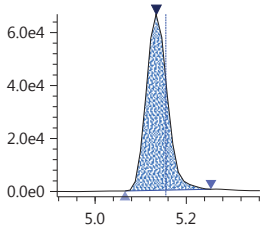
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



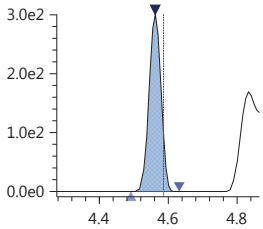
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Conc 3.0895
RT 5.134 Area 216233
Q 588.80>419.00 (-) 6.69e4



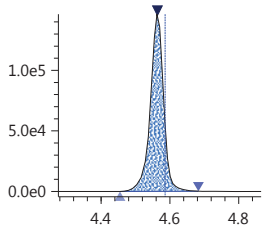
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Conc 5.0000
RT 5.134 Area 216233
ISTD 588.80>419.00 (-) 6.69e4



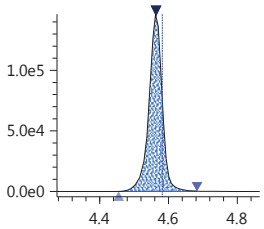
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Conc 0.0089
RT 4.562 Area 730
Q 427.00>407.00 (-) 3.01e2



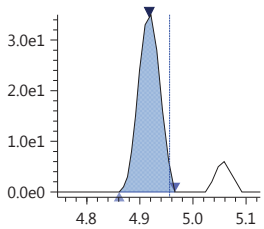
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Conc 5.3201
RT 4.564 Area 390052
Q 428.90>409.00 (-) 1.46e5



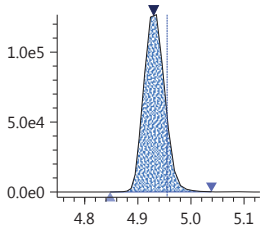
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ISTD 428.90>409.00 (-) 1.46e5



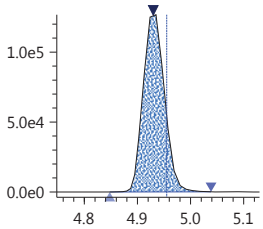
8_2-FTS_1
Conc 0.0020
RT 4.918 Area 103
Q 527.10>506.90 (-) 3.50e1



8_2-FTS-13C
Conc 7.4639
RT 4.930 Area 357495
Q 528.80>509.00 (-) 1.27e5



8_2-FTS-13C_IS
Conc 5.0000
RT 4.930 Area 357495
ISTD 528.80>509.00 (-) 1.27e5



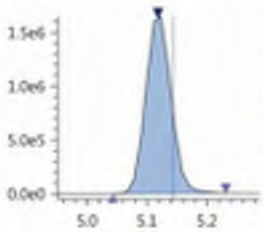
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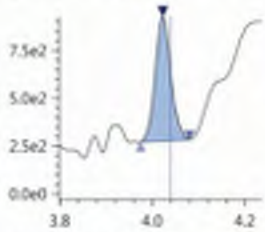
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Date acquired: 9/19/2019 7:37:37 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_232.lcd
Vial: 26 | Inj. Volume: 15.0000uL | Tray: 3

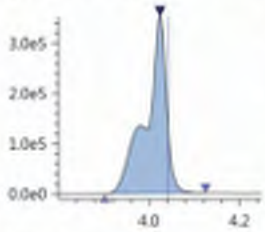
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Conc 5.0000
RT 5.118 Area 4924886
ISTD 570.00>525.00 (-) 1.65e6



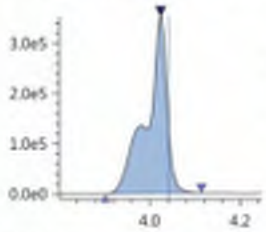
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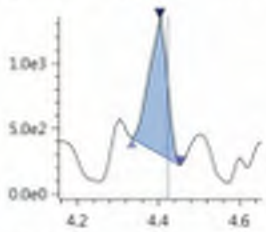
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Q 301.80>80.00 (-) 3.53e5



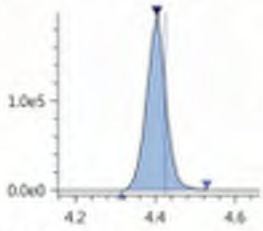
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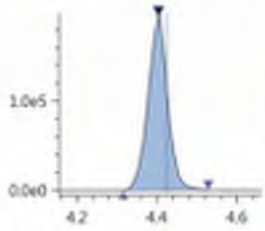
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Conc -0.0151
RT 4.404 Area 3264
Q 399.00>80.00 (-) 1.36e3



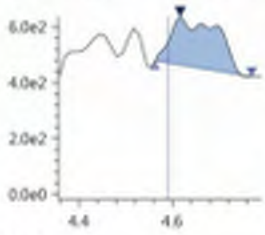
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Conc 5.8623
RT 4.403 Area 664172
Q 402.70>84.05 (-) 1.99e5



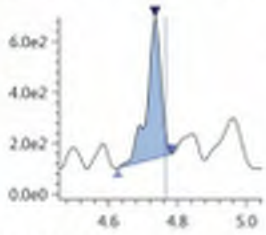
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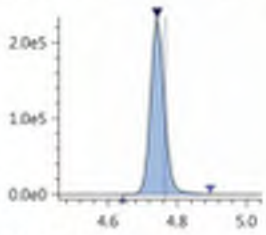
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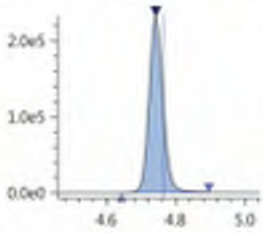
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Q 499.00>80.00 (-) 6.97e2



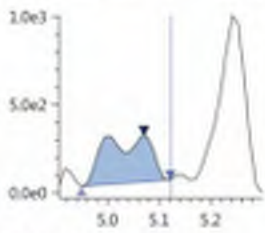
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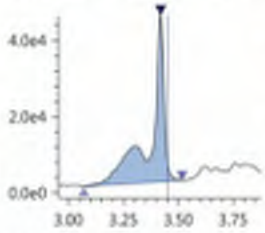
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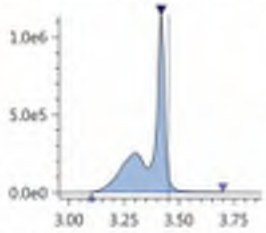
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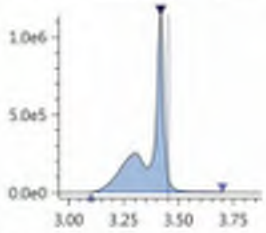
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Q 213.00>169.10 (-) 4.66e4



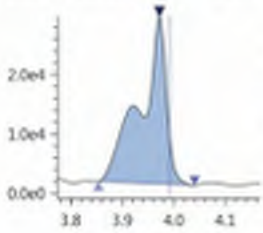
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Conc 5.3953
RT 3.418 Area 4820865
Q 216.90>172.15 (-) 1.14e6



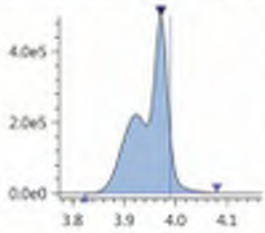
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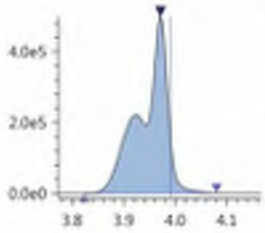
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Q 263.05>219.10 (-) 2.99e4



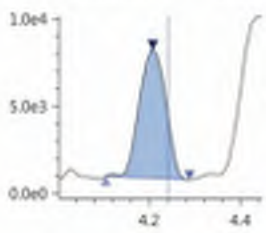
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Q 267.90>223.00 (-) 5.00e5



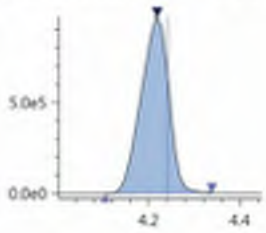
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ISTD 267.90>223.00 (-) 5.00e5



PFHxA
Conc 0.0169
RT 4.208 Area 29754
Q 313.00>269.00 (-) 1.02e4



PFHxA-13C
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RT 4.218 Area 4102575
Q 314.90>270.10 (-) 9.75e5

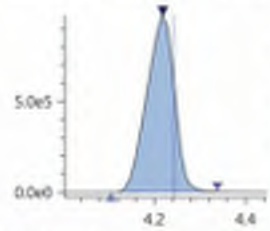


Manual Integration - Before

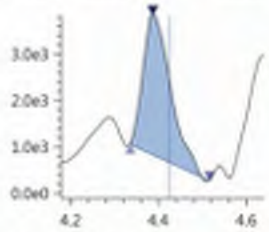
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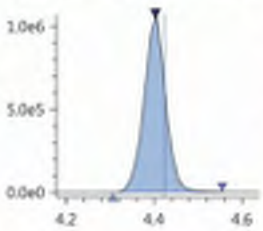
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RT 4.218 Area 4102575
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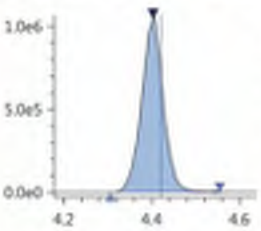
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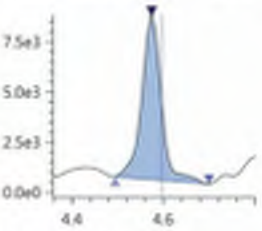
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Conc 4.8594
RT 4.403 Area 3596192
Q 366.90>322.10 (-) 1.07e6



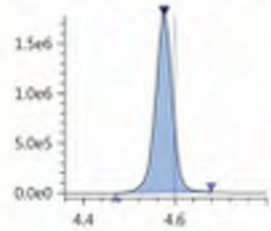
PFHpA-13C_IS
Conc 5.0000
RT 4.403 Area 3596192
ISTD 366.90>322.10 (-) 1.07e6



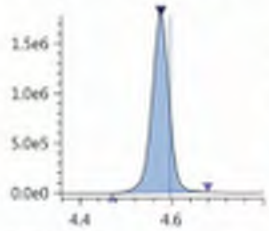
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Conc 0.0074
RT 4.574 Area 24511
Q 413.00>369.00 (-) 8.83e3



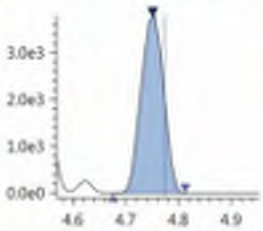
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RT 4.576 Area 4726034
Q 416.80>372.05 (-) 1.78e6



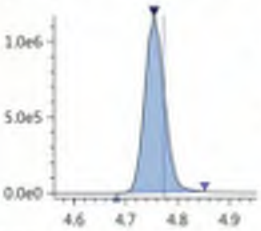
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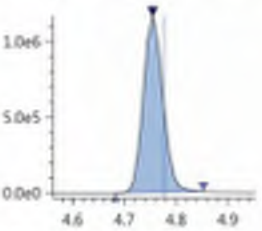
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Conc -0.0026
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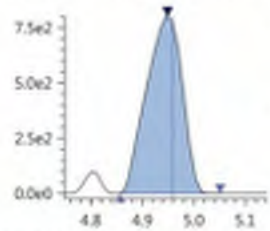
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Conc 3.6989
RT 4.754 Area 3105806
Q 467.80>423.00 (-) 1.17e6



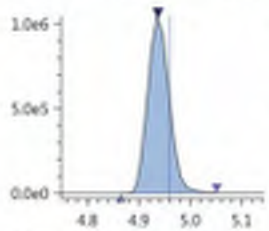
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Conc 5.0000
RT 4.754 Area 3105806
ISTD 467.80>423.00 (-) 1.17e6



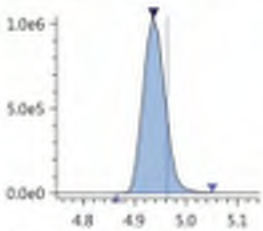
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Conc -0.0042
RT 4.949 Area 3915
Q 513.00>468.80 (-) 8.03e2



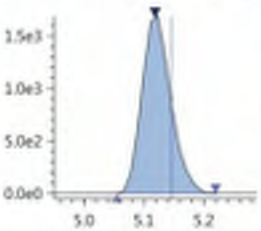
PFDA-13C
Conc 4.4123
RT 4.937 Area 3064564
Q 514.80>469.95 (-) 1.05e6



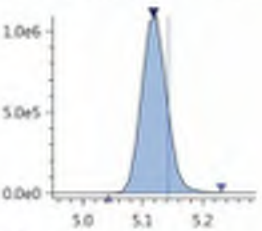
PFDA-13C_IS
Conc 5.0000
RT 4.937 Area 3064564
ISTD 514.80>469.95 (-) 1.05e6



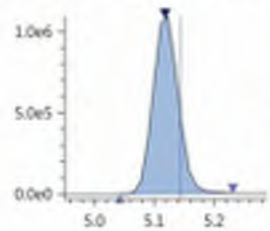
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Conc -0.0085
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Q 563.00>518.90 (-) 1.69e3



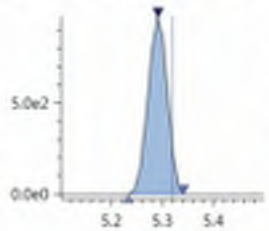
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Conc 4.1776
RT 5.118 Area 3261251
Q 564.80>519.95 (-) 1.09e6



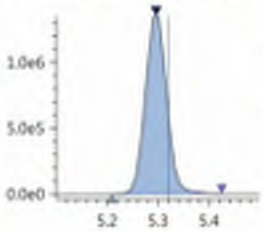
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Conc 5.0000
RT 5.118 Area 3261251
ISTD 564.80>519.95 (-) 1.09e6



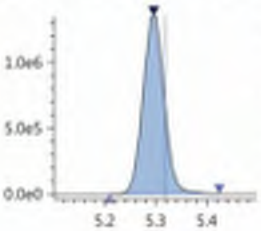
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Conc 0.0308
RT 5.291 Area 2602
Q 613.05>569.00 (-) 9.76e2



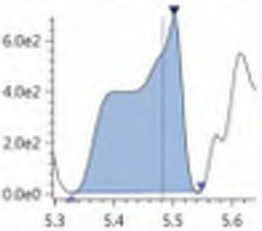
PFDoA-13C
Conc 4.1665
RT 5.295 Area 3947200
Q 614.80>569.95 (-) 1.35e6



PFDoA-13C_IS
Conc 5.0000
RT 5.295 Area 3947200
ISTD 614.80>569.95 (-) 1.35e6



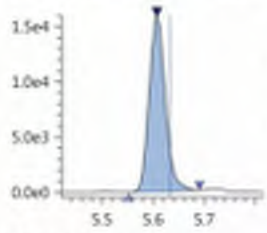
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Conc 0.0034
RT 5.502 Area 4327
Q 663.00>618.90 (-) 6.93e2



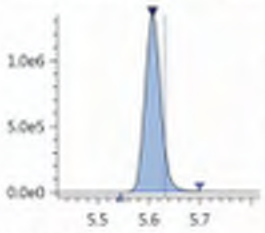
Insight Report

Printed at 9/19/2019 2:31:52 PM

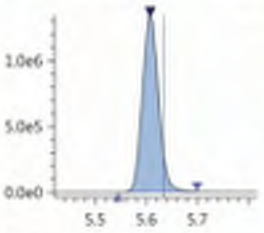
PFTeDA
Conc 0.0018
RT 5.607 Area 35262
Q 713.40>669.00 (-) 1.60e4



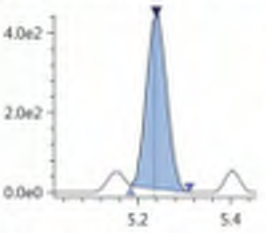
PFTeDA-13C
Conc 3.8947
RT 5.607 Area 2928779
Q 714.70>669.90 (-) 1.35e6



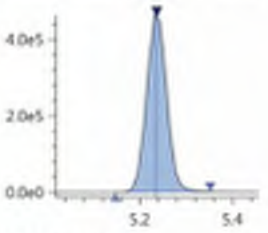
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Conc 5.0000
RT 5.607 Area 2928779
ISTD 714.70>669.90 (-) 1.35e6



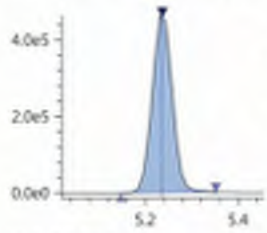
FOSA
Conc 0.0038
RT 5.239 Area 1339
Q 498.20>78.00 (-) 4.45e2



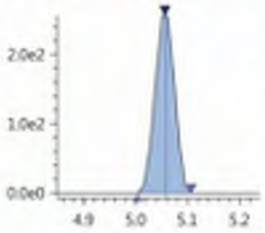
FOSA-13C
Conc 3.4459
RT 5.236 Area 1413858
Q 506.00>78.05 (-) 4.64e5



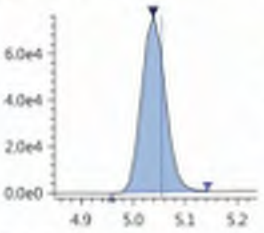
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Conc 5.0000
RT 5.236 Area 1413858
ISTD 506.00>78.05 (-) 4.64e5



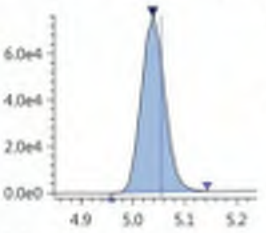
N-MeFOSAA
Conc 0.0218
RT 5.056 Area 688
Q 570.20>419.00 (-) 2.56e2



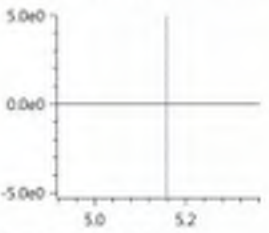
N-MeFOSAA-d3
Conc 3.1315
RT 5.038 Area 240036
Q 572.80>419.05 (-) 7.64e4



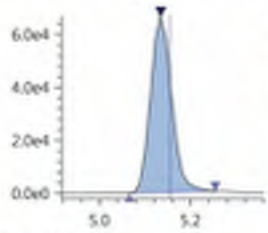
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.038 Area 240036
ISTD 572.80>419.05 (-) 7.64e4



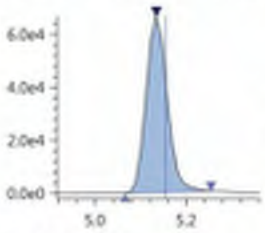
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



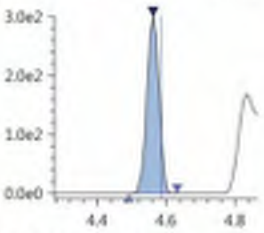
N-EtFOSAA-d5
Conc 3.0895
RT 5.134 Area 216233
Q 588.80>419.00 (-) 6.69e4



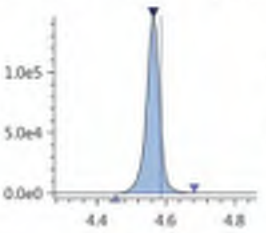
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Conc 5.0000
RT 5.134 Area 216233
ISTD 588.80>419.00 (-) 6.69e4



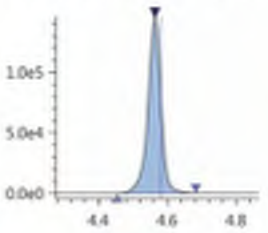
6_2-FTS_1
Conc 0.0089
RT 4.562 Area 730
Q 427.00>407.00 (-) 3.01e2



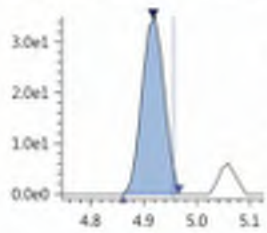
6_2-FTS-13C
Conc 5.3201
RT 4.564 Area 390052
Q 428.90>409.00 (-) 1.46e5



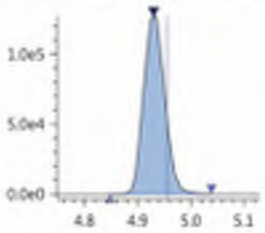
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Conc 5.0000
RT 4.564 Area 390052
ISTD 428.90>409.00 (-) 1.46e5



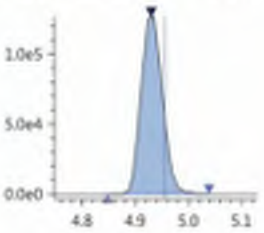
8_2-FTS_1
Conc 0.0020
RT 4.918 Area 103
Q 527.10>506.90 (-) 3.50e1



8_2-FTS-13C
Conc 7.4639
RT 4.930 Area 357495
Q 528.80>509.00 (-) 1.27e5



8_2-FTS-13C_IS
Conc 5.0000
RT 4.930 Area 357495
ISTD 528.80>509.00 (-) 1.27e5



1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_233
Lab ID: R1908707-004.R01
RunType: N/A
Matrix: Water

Date Acquired: 9/19/19 07:48
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	Narrate high bias, ND
	13C4-PFHpA	136	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	Narrate high bias, ND
	13C3-PFBS	139	70	130	Narrate high bias, ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	Narrate high bias, ND
Surrogates	13C3-PFBS	114	20	109	Narrate high bias, ND
	18O2-PFHxS	123	26	122	Narrate high bias, ND
	13C4-PFBA	127	27	124	RR to confirm

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_233	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:48	**Vial:**	10
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-004.R01	**Raw Units:**	ng/mL

Bottle ID:	R1908707-004.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	R1908707
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.116	-0.01	4326946	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.020	-0.01	1141748	5.6771	114	*	20 - 109	Y
18O2-PFHxS	4.398	-0.01	611173	6.1400	123	*	26 - 122	Y
13C4-PFOS	4.737	-0.01	822002	5.6659	113		25 - 121	Y
13C4-PFBA	3.415	-0.01	4998782	6.3675	127	*	27 - 124	Y
13C5-PFPeA	3.967	-0.01	1699008	4.2600	85		27 - 138	Y
13C2-PFHxA	4.218	-0.01	5162425	5.3700	107		28 - 132	Y
13C4-PFHpA	4.398	-0.01	3576676	5.5009	110		19 - 139	Y
13C4-PFOA	4.572	-0.01	4864221	4.6437	93		22 - 130	Y
13C5-PFNA	4.751	-0.01	3748488	5.0813	102		20 - 127	Y
13C2-PFDA	4.932	-0.01	3074800	5.0388	101		24 - 125	Y
13C2-PFUnDA	5.116	-0.01	3440997	5.0170	100		22 - 125	Y
13C2-PFDoDA	5.291	-0.01	3182016	3.8230	76		19 - 122	Y
13C2-PFTeDA	5.607	0.00	3634309	5.5008	110		13 - 124	Y
13C8-FOSA	5.232		1187118	3.2931	66		18 - 109	Y
D3-MeFOSAA	5.034	0.00	321350	4.7717	95		9 - 123	Y
D5-EtFOSAA	5.131	0.00	269591	4.3842	88		12 - 126	Y
13C2-6:2 FTS	4.559	-0.01	358874	5.5713	111		10 - 226	Y
13C2-8:2 FTS	4.928	-0.01	296487	7.0455	141		10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.013	-0.02	895	0.0039	0.10	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.401	-0.01	5099	-0.0005	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_233	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:48	**Vial:**	10
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-004.R01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.729	-0.02	1702	0.0151	0.40	U	Y
Perfluorodecane sulfonic acid (PFDS)	5.082	-0.02	1128	0.0100	0.27	U	Y
Perfluorobutanoic acid (PFBA)	3.416	-0.01	174075	0.2233	6.0		Y
Perfluoropentanoic acid (PFPeA)	3.968	-0.01	91118	0.0367	0.98	U	Y
Perfluorohexanoic acid (PFHxA)	4.215	-0.02	29481	0.0089	0.24	U	Y
Perfluoroheptanoic acid (PFHpA)	4.380	-0.03	14695	0.0026	0.069	U	Y
Perfluorooctanoic acid (PFOA)	4.571	-0.01	19204	-0.0002	0	U	Y
Perfluorononanoic acid (PFNA)	4.750	-0.01	3687	-0.0191	0	U	Y
Perfluorodecanoic acid (PFDA)	4.932	-0.01	5574	-0.0007	0	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.122		6640	-0.0072	0	U	Y
Perfluorododecanoic acid (PFDoDA)	5.292	0.00	3246	0.0343	0.91	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.454	-0.01	2793	-0.0003	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.606	-0.01	43874	0.0022	0.059	U	Y
Perfluorooctane sulfonamide (FOSA)	5.238	+0.01	698	0.0024	0.064	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.558	-0.01	444	0.0059	0.16	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.934	0.00	138	0.0033	0.088	U	Y

Prep Amount:	300.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

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190917_233

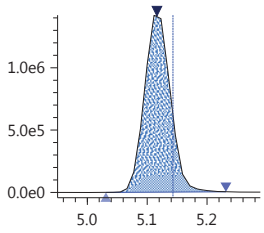
Sample ID: R1908707-004
Date acquired: 9/19/2019 7:48:07 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_233.lcd
Vial: 27 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.116	4326946	4326946	1	5.0000	ng/mL	----
PFBS_1	M	4.013	895	1134842	2	0.0039	ng/mL	----
PFBS-13C	Auto	4.020	1141748	4326946	1	5.6771	ng/mL	----
PFBS-13C_IS	Auto	4.020	1134842	1134842	2	5.0000	ng/mL	----
PFHxS_1	Auto	4.401	5099	611173	3	-0.0005	ng/mL	----
PFHxS-18O	Auto	4.398	611173	4326946	1	6.1400	ng/mL	----
PFHxS-18O_IS	Auto	4.398	611173	611173	3	5.0000	ng/mL	----
PFHpS_1	NI	----	----	611173	3	----	ng/mL	----
PFOS_1	Auto	4.729	1702	822002	4	0.0151	ng/mL	----
PFOS-13C	Auto	4.737	822002	4326946	1	5.6659	ng/mL	----
PFOS-13C_IS	Auto	4.737	822002	822002	4	5.0000	ng/mL	----
PFDS_1	M	5.082	1128	822002	4	0.0100	ng/mL	----
PFBA	Auto	3.416	174075	4998782	5	0.2233	ng/mL	----
PFBA-13C	Auto	3.415	4998782	4326946	1	6.3675	ng/mL	----
PFBA-13C_IS	Auto	3.415	4998782	4998782	5	5.0000	ng/mL	----
PFPeA	M	3.968	91118	1699008	6	0.0367	ng/mL	----
PFPeA-13C	Auto	3.967	1699008	4326946	1	4.2600	ng/mL	----
PFPeA-13C_IS	Auto	3.967	1699008	1699008	6	5.0000	ng/mL	----
PFHxA	Auto	4.215	29481	5162425	7	0.0089	ng/mL	----
PFHxA-13C	Auto	4.218	5162425	4326946	1	5.3700	ng/mL	----
PFHxA-13C_IS	Auto	4.218	5162425	5162425	7	5.0000	ng/mL	----
PFHpA	M	4.380	14695	3576676	8	0.0026	ng/mL	----
PFHpA-13C	Auto	4.398	3576676	4326946	1	5.5009	ng/mL	----
PFHpA-13C_IS	Auto	4.398	3576676	3576676	8	5.0000	ng/mL	----
PFOA	Auto	4.571	19204	4864221	9	-0.0002	ng/mL	----
PFOA-13C	Auto	4.572	4864221	4326946	1	4.6437	ng/mL	----
PFOA-13C_IS	Auto	4.572	4864221	4864221	9	5.0000	ng/mL	----
PFNA	M	4.750	3687	3748488	10	-0.0191	ng/mL	----
PFNA-13C	Auto	4.751	3748488	4326946	1	5.0813	ng/mL	----
PFNA-13C_IS	Auto	4.751	3748488	3748488	10	5.0000	ng/mL	----
PFDA	Auto	4.932	5574	3074800	11	-0.0007	ng/mL	----
PFDA-13C	Auto	4.932	3074800	4326946	1	5.0388	ng/mL	----
PFDA-13C_IS	Auto	4.932	3074800	3074800	11	5.0000	ng/mL	----
PFUnA	M	5.122	6640	3440997	12	-0.0072	ng/mL	----
PFUnA-13C	Auto	5.116	3440997	4326946	1	5.0170	ng/mL	----
PFUnA-13C_IS	Auto	5.116	3440997	3440997	12	5.0000	ng/mL	----
PFDoA	Auto	5.292	3246	3182016	13	0.0343	ng/mL	----
PFDoA-13C	Auto	5.291	3182016	4326946	1	3.8230	ng/mL	----
PFDoA-13C_IS	Auto	5.291	3182016	3182016	13	5.0000	ng/mL	----
PFTrDA	M	5.454	2793	3634309	14	-0.0003	ng/mL	----
PFTeDA	Auto	5.606	43874	3634309	14	0.0022	ng/mL	----
PFTeDA-13C	Auto	5.607	3634309	4326946	1	5.5008	ng/mL	----
PFTeDA-13C_IS	Auto	5.607	3634309	3634309	14	5.0000	ng/mL	----
FOSA	Auto	5.238	698	1187118	16	0.0024	ng/mL	----
FOSA-13C	Auto	5.232	1187118	4326946	1	3.2931	ng/mL	----
FOSA-13C_IS	Auto	5.232	1187118	1187118	16	5.0000	ng/mL	----
N-MeFOSAA	ND(W/B)	----	----	321350	21	----	ng/mL	----
N-MeFOSAA-d3	Auto	5.034	321350	4326946	1	4.7717	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.034	321350	321350	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	269591	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.131	269591	4326946	1	4.3842	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.131	269591	269591	22	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.558	444	358874	24	0.0059	ng/mL	----
6_2-FTS-13C	Auto	4.559	358874	4326946	1	5.5713	ng/mL	----
6_2-FTS-13C_IS	Auto	4.559	358874	358874	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.934	138	296487	25	0.0033	ng/mL	----
8_2-FTS-13C	Auto	4.928	296487	4326946	1	7.0455	ng/mL	----
8_2-FTS-13C_IS	Auto	4.928	296487	296487	25	5.0000	ng/mL	----

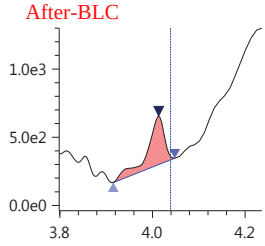
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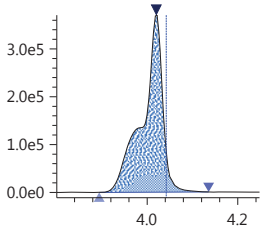
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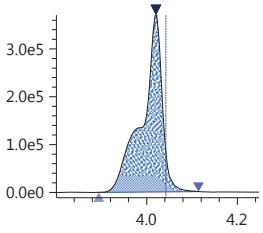
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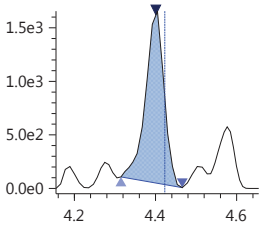
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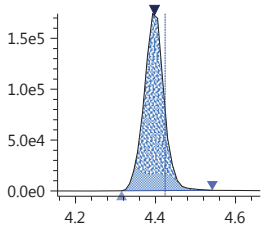
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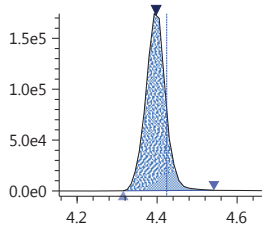
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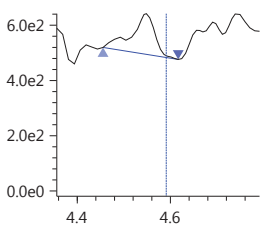
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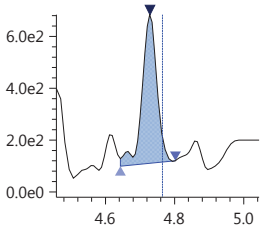
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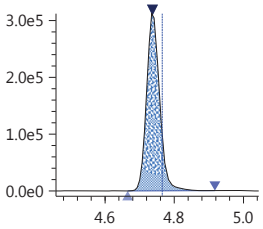
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RT ---- Area ----
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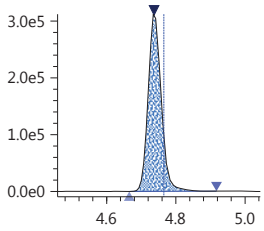
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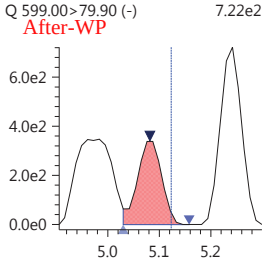
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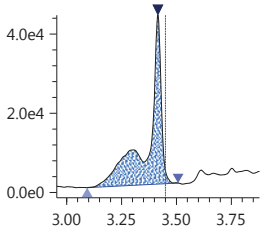
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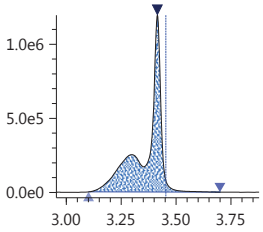
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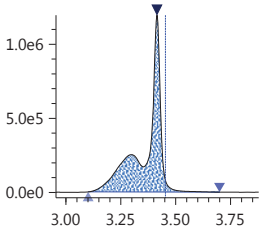
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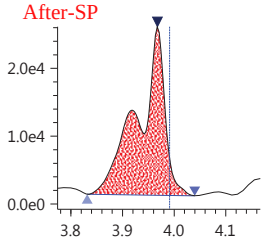
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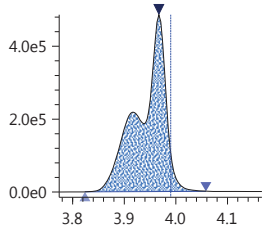
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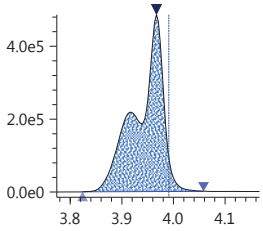
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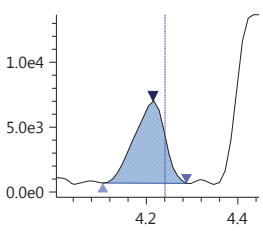
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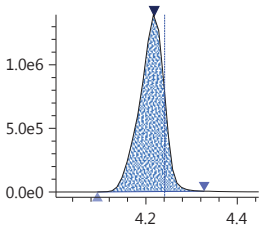
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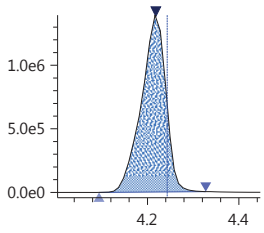
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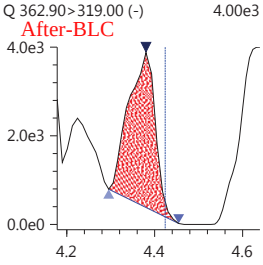
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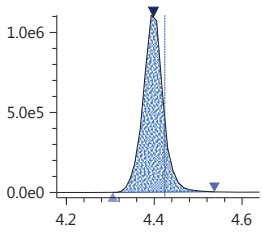
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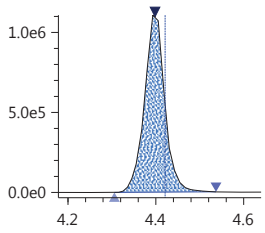
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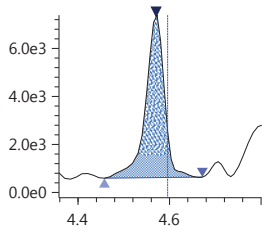
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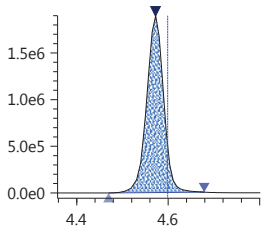
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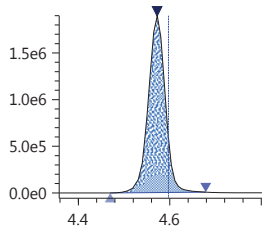
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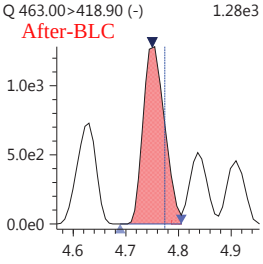
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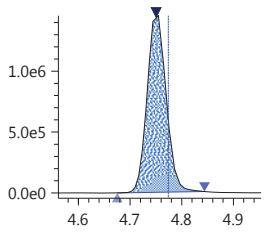
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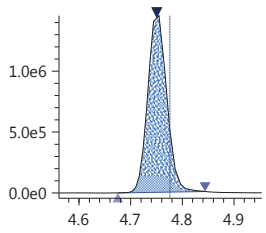
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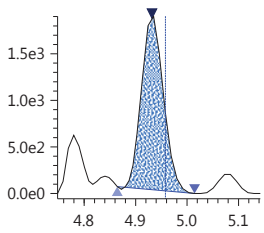
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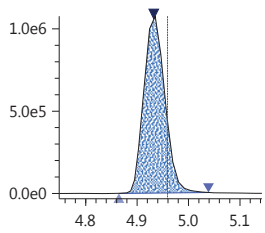
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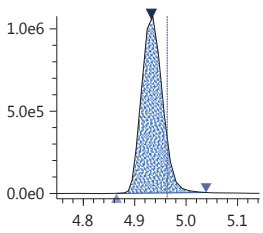
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Q 513.00>468.80 (-) 1.90e3



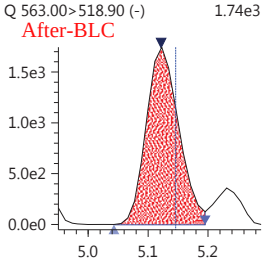
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Conc 5.0388
RT 4.932 Area 3074800
Q 514.80>469.95 (-) 1.08e6



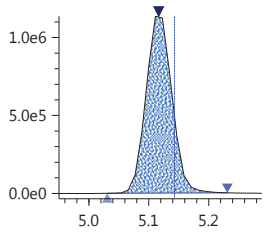
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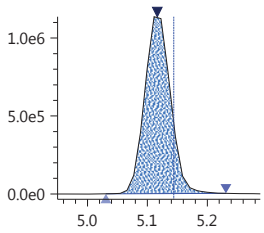
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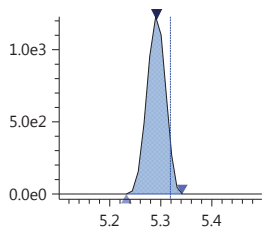
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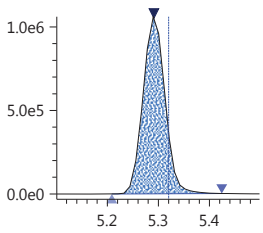
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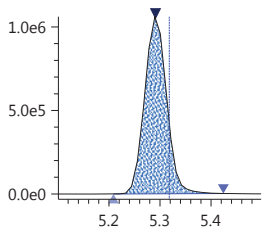
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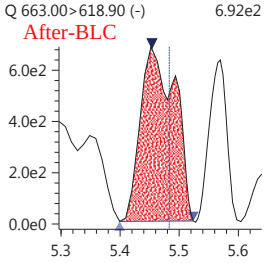
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Conc 3.8230
RT 5.291 Area 3182016
Q 614.80>569.95 (-) 1.06e6



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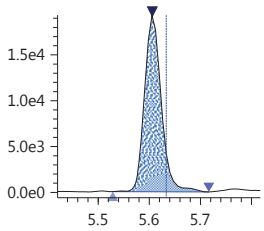
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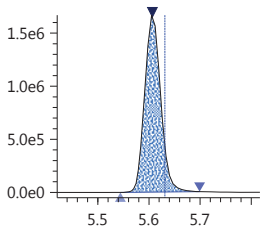
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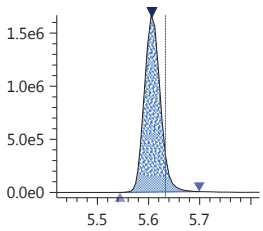
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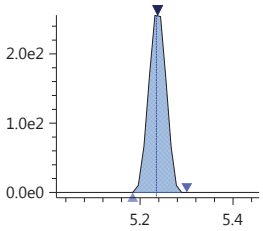
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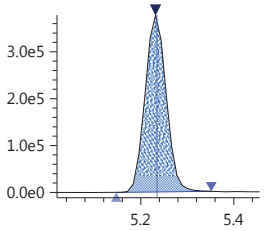
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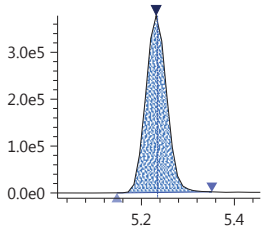
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Conc 0.0024
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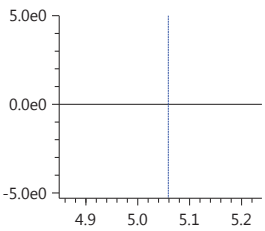
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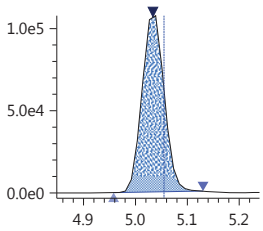
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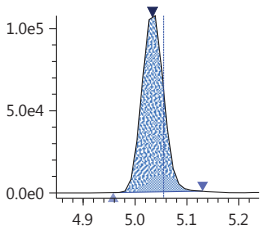
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RT ---- Area ----
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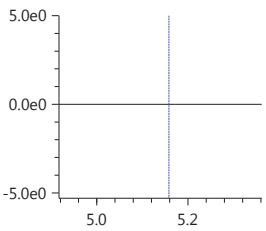
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Q 572.80>419.05 (-) 1.08e5



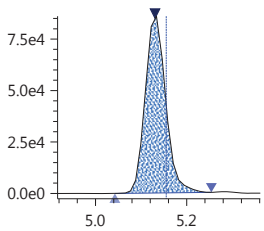
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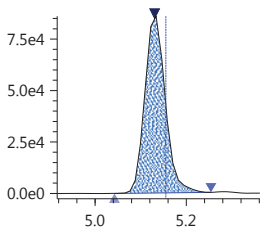
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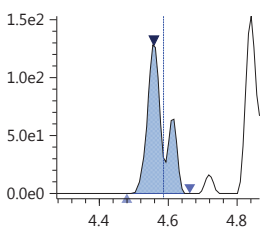
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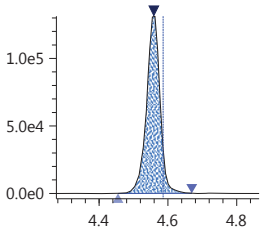
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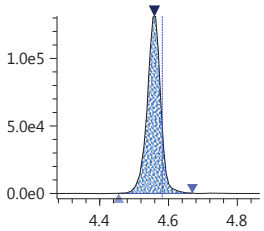
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Conc 0.0059
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Q 427.00>407.00 (-) 1.53e2



6_2-FTS-13C
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Q 428.90>409.00 (-) 1.31e5

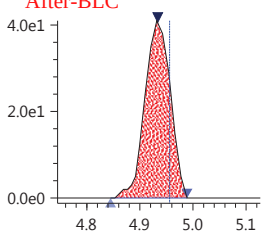


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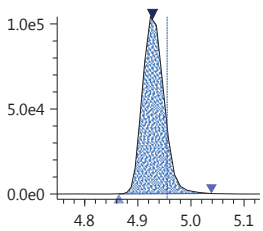


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Q 527.10>506.90 (-) 4.10e1

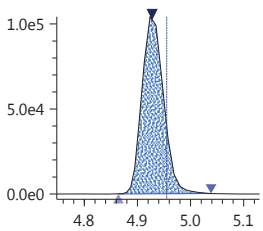
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8_2-FTS-13C
Conc 7.0455
RT 4.928 Area 296487
Q 528.80>509.00 (-) 1.04e5



8_2-FTS-13C_IS
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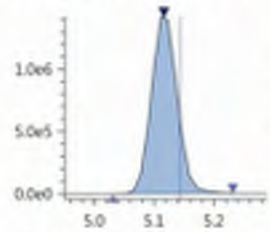
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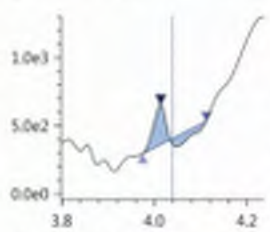
190917_233

Sample ID: R1908707-004
Date acquired: 9/19/2019 7:48:07 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_233.lcd
Vial: 27 | Inj. Volume: 15.0000uL | Tray: 3

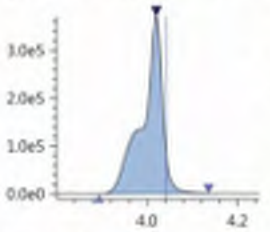
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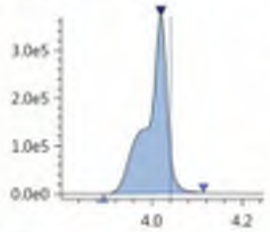
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Conc 0.0012
RT 4.013 Area 271
Q 299.00>80.00 (-) 1.30e3



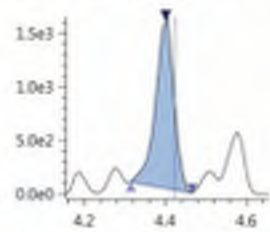
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RT 4.020 Area 1141748
Q 301.80>80.00 (-) 3.71e5



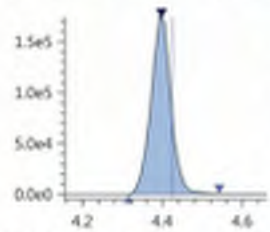
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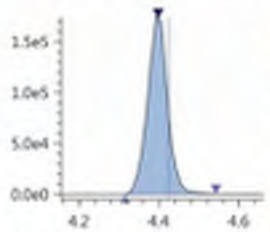
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Q 399.00>80.00 (-) 1.66e3



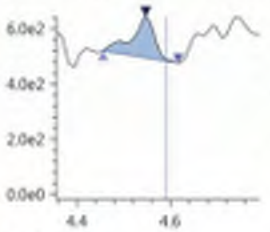
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Q 402.70>84.05 (-) 1.74e5



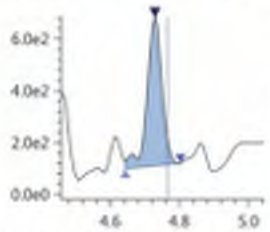
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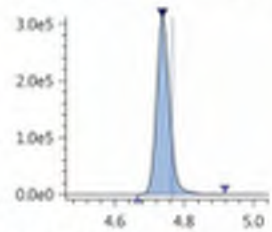
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Q 449.00>80.15 (-) 6.42e2



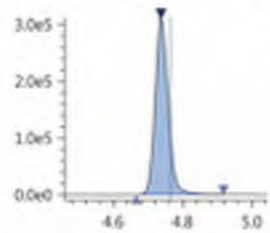
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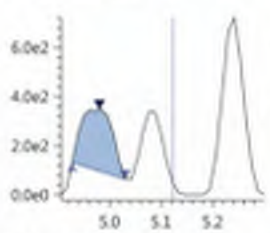
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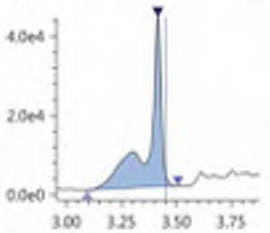
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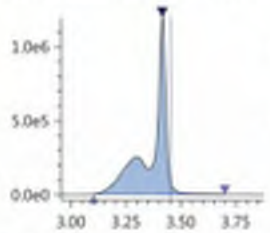
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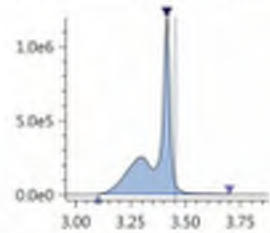
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Q 213.00>169.10 (-) 4.48e4



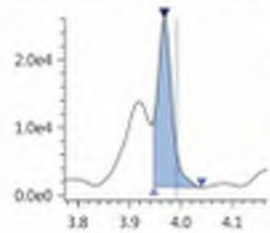
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Q 216.90>172.15 (-) 1.20e6



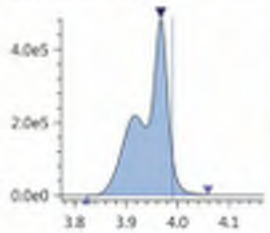
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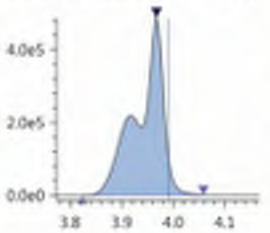
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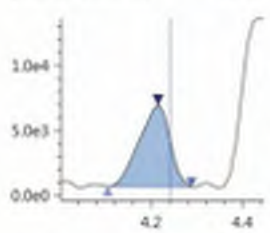
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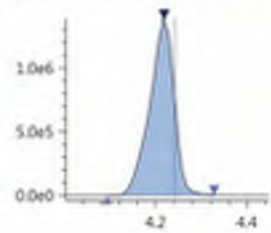
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Q 313.00>269.00 (-) 1.37e4



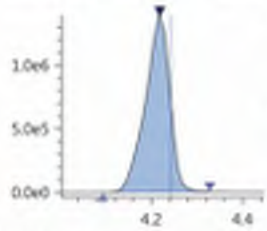
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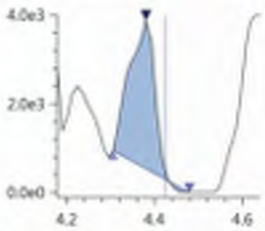
Insight Report

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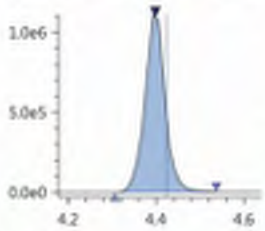
PFHxA-13C_IS
Conc 5.0000
RT 4.218 Area 5162425
ISTD 314.90>270.10 (-) 1.39e6



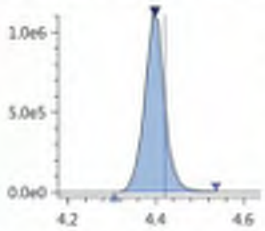
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Q 362.90>319.00 (-) 4.00e3



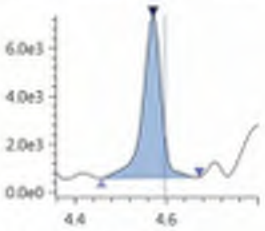
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RT 4.398 Area 3576676
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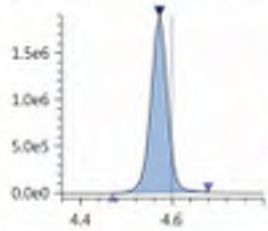
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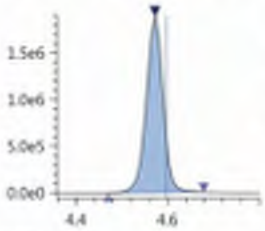
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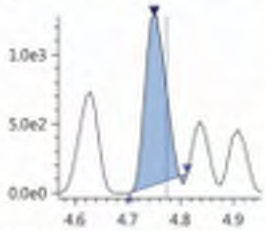
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Q 416.80>372.05 (-) 1.90e6



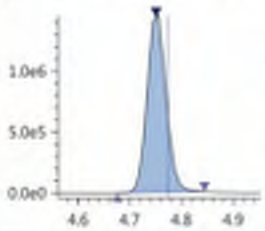
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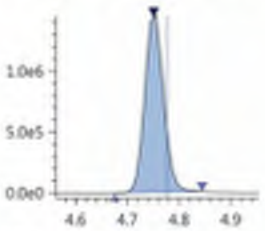
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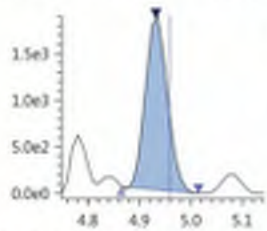
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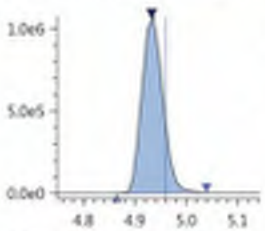
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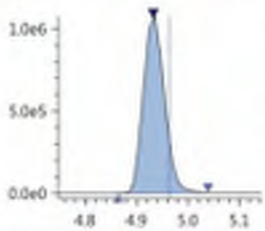
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Q 513.00>468.80 (-) 1.90e3



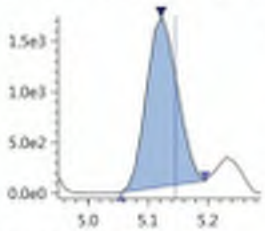
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Q 514.80>469.95 (-) 1.08e6



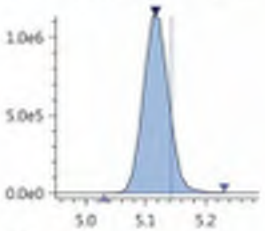
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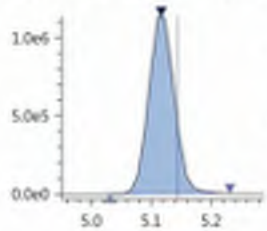
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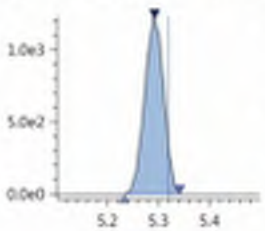
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Conc 5.0170
RT 5.116 Area 3440997
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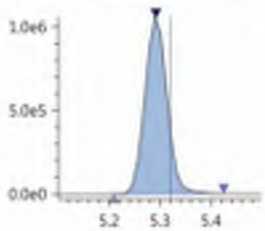
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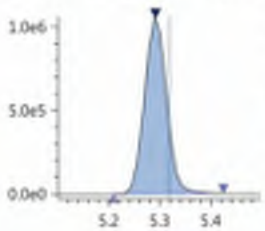
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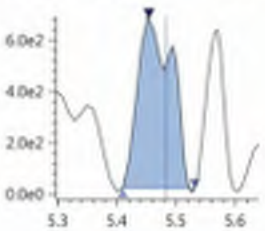
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Conc 3.8230
RT 5.291 Area 3182016
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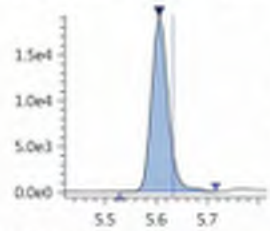
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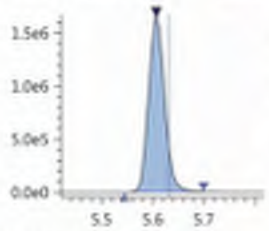
Insight Report

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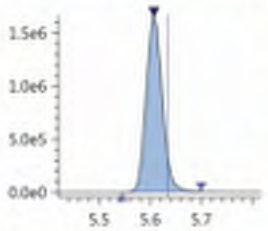
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Conc 0.0022
RT 5.606 Area 43874
Q 713.40>669.00 (-) 1.91e4



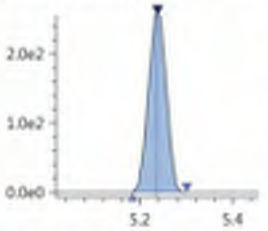
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Conc 5.5008
RT 5.607 Area 3634309
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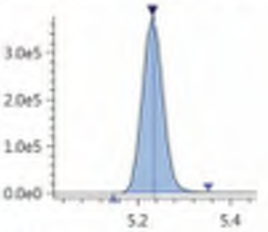
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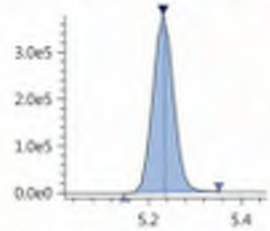
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Conc 0.0024
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Q 498.20>78.00 (-) 2.56e2



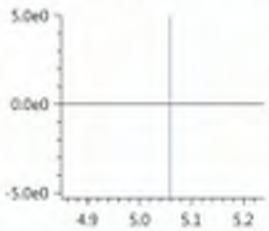
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Conc 3.2931
RT 5.232 Area 1187118
Q 506.00>78.05 (-) 3.78e5



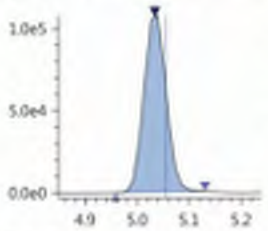
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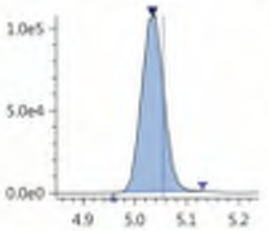
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



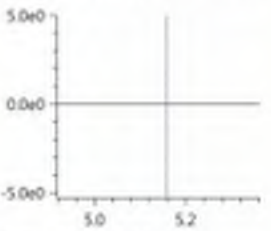
N-MeFOSAA-d3
Conc 4.7717
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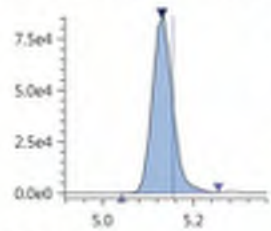
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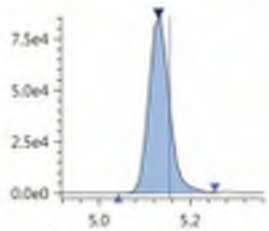
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Conc ----
RT ---- Area ----
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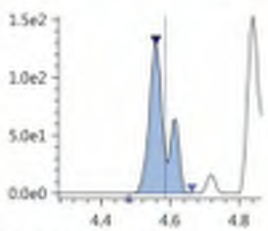
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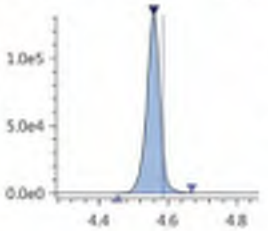
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RT 5.131 Area 269591
ISTD 588.80>419.00 (-) 8.61e4



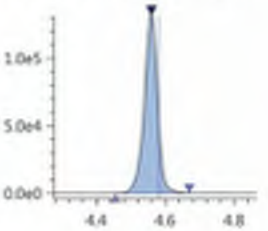
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Conc 0.0059
RT 4.558 Area 444
Q 427.00>407.00 (-) 1.53e2



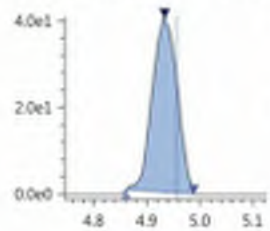
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Conc 5.5713
RT 4.559 Area 358874
Q 428.90>409.00 (-) 1.31e5



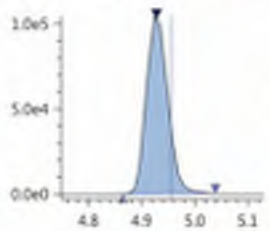
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ISTD 428.90>409.00 (-) 1.31e5



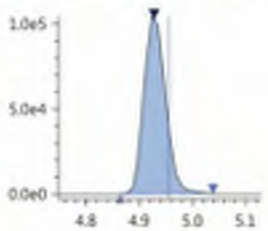
8_2-FTS_1
Conc 0.0032
RT 4.934 Area 133
Q 527.10>506.90 (-) 4.10e1



8_2-FTS-13C
Conc 7.0455
RT 4.928 Area 296487
Q 528.80>509.00 (-) 1.04e5



8_2-FTS-13C_IS
Conc 5.0000
RT 4.928 Area 296487
ISTD 528.80>509.00 (-) 1.04e5



1st EJD 09/24/19
2nd 09/25/19

Validation Report

Data File: J:\LCMS06\Data\190923_b2\190923_025
Lab ID: R1908707-004
RunType: N/A
Matrix: Water

Date Acquired: 9/24/19 00:19
Batch ID: 652554
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	D5-EtFOSAA	131	70	130	NA, NR this inject

Primary Review: _____

Secondary Review: _____

1st EJD 09/24/19
2nd 09/25/19

Quantitation Report

Data File:	J:\LCMS06\Data\190923_b2\190923_025	**Instrument:**	K-LCMS-06
Acqu Date:	9/24/19 00:19	**Vial:**	3
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-004	**Raw Units:**	ng/mL

Bottle ID:	R1908707-004.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	652554	**Prep Lot:**	344503	**Report Group:**	R1908707
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900392
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.123		6928726	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C4-PFBA	3.309	-0.13	5469536	4.9441	99	27 - 124	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutanoic acid (PFBA)	3.312	-0.12	208383	0.2005	5.3		Y

Prep Amount:	300.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st EJD 09/24/19

2nd 09/25/19

Insight Report

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Method File: J:\LCMS06\Data\190923_b2\190923_b2.lcm
Project File: J:\LCMS06\Data\190923_b2\190923_b2.damlp
Flags File: J:\LCMS06\Data\190923_b2\190923_b2.damlp

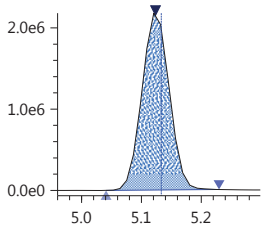
190923_025

Sample ID: R1908707-004
Date acquired: 9/24/2019 12:19:09 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190923_b2\190923_025.lcd
Vial: 42 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.123	6928726	6928726	1	5.0000	ng/mL	----
PFBA	M	3.312	208383	5469536	5	0.2005	ng/mL	----
PFBA-13C	Auto	3.309	5469536	6928726	1	4.9441	ng/mL	----
PFBA-13C_IS	Auto	3.309	5469536	5469536	5	5.0000	ng/mL	----

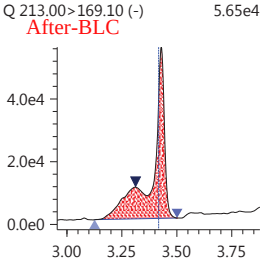
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RT 5.123 Area 6928726
ISTD 570.00>525.00 (-) 2.18e6



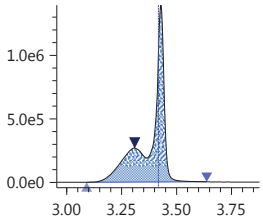
PFBA

Conc 0.2005
RT 3.312 Area 208383
Q 213.00>169.10 (-) 5.65e4



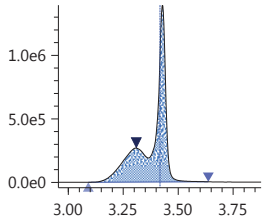
PFBA-13C

Conc 4.9441
RT 3.309 Area 5469536
Q 216.90>172.15 (-) 1.39e6



PFBA-13C_IS

Conc 5.0000
RT 3.309 Area 5469536
ISTD 216.90>172.15 (-) 1.39e6



Insight Report

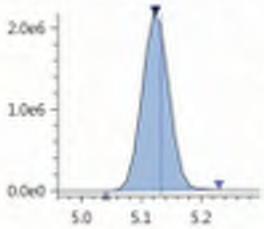
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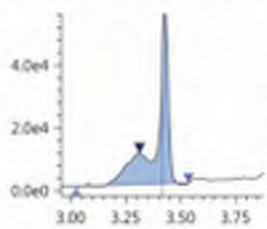
190923_025

Sample ID: R1908707-004
Date acquired: 9/24/2019 12:19:09 AM
Acquired by: System Administrator
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Vial: 42 | Inj. Volume: 15.0000uL | Tray: 3

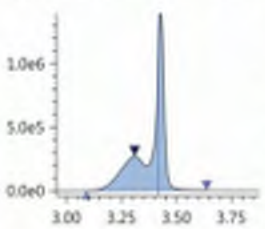
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Conc 5.0000
RT 5.123 Area 6928726
ISTD 570.00>525.00 (-) 2.18e6



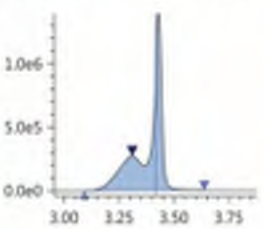
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RT 3.312 Area 201705
Q 213.00>169.10 (-) 5.65e4



PFBA-13C
Conc 4.9641
RT 3.309 Area 5469536
Q 216.90>172.15 (-) 1.39e6



PFBA-13C_IS
Conc 5.0000
RT 3.309 Area 5469536
ISTD 216.90>172.15 (-) 1.39e6



Manual Integration - Before

1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_234
Lab ID: R1908707-005
RunType: N/A
Matrix: Water

Date Acquired: 9/19/19 07:58
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluorodecane sulfonic acid (PFDS)	144	70	130	Narrate high bias, ND
	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	Narrate high bias, ND
	13C3-PFBS	139	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	Narrate high bias, ND
	13C4-PFHpA	136	70	130	Narrate native ok
Surrogates	18O2-PFHxS	139	26	122	Narrate high bias, ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_234	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:58	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-005	**Raw Units:**	ng/mL

Bottle ID:	R1908707-005.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	R1908707
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.118	0.00	4581738	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.029	0.00	1041672	4.8915	98		20 - 109	Y
18O2-PFHxS	4.404	-0.01	730636	6.9319	139	*	26 - 122	Y
13C4-PFOS	4.745	-0.01	831020	5.4095	108		25 - 121	Y
13C4-PFBA	3.422	-0.01	4043014	4.8636	97		27 - 124	Y
13C5-PFPeA	3.976	0.00	1715530	4.0622	81		27 - 138	Y
13C2-PFHxA	4.226	-0.01	4981891	4.8940	98		28 - 132	Y
13C4-PFHpA	4.405	0.00	4266092	6.1963	124		19 - 139	Y
13C4-PFOA	4.580	0.00	5220984	4.7071	94		22 - 130	Y
13C5-PFNA	4.756	0.00	3835184	4.9097	98		20 - 127	Y
13C2-PFDA	4.937	0.00	3254857	5.0372	101		24 - 125	Y
13C2-PFUnDA	5.119	0.00	3184215	4.3844	88		22 - 125	Y
13C2-PFDoDA	5.295	0.00	3671371	4.1656	83		19 - 122	Y
13C2-PFTeDA	5.611		3286321	4.6975	94		13 - 124	Y
13C8-FOSA	5.237	+0.01	1688267	4.4229	88		18 - 109	Y
D3-MeFOSAA	5.039	+0.00	298134	4.1807	84		9 - 123	Y
D5-EtFOSAA	5.137	+0.00	290028	4.4542	89		12 - 126	Y
13C2-6:2 FTS	4.567	0.00	345131	5.0600	101		10 - 226	Y
13C2-8:2 FTS	4.932	-0.01	233620	5.2429	105		10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0		0	0	0	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.404	0.00	5879	-0.0018	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_234	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:58	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-005	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.716	-0.03	2216	0.0194	0.52	J	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	3.421	-0.01	1794	0.0028	0.075	U	Y
Perfluoropentanoic acid (PFPeA)	3.976	0.00	70227	0.0007	0.019	U	Y
Perfluorohexanoic acid (PFHxA)	4.219	-0.01	16756	-0.0034	0	U	Y
Perfluoroheptanoic acid (PFHpA)	4.404	-0.01	10326	-0.0061	0	U	Y
Perfluorooctanoic acid (PFOA)	4.579	0.00	18648	-0.0025	0	U	Y
Perfluorononanoic acid (PFNA)	4.772	+0.01	2283	-0.0215	0	U	Y
Perfluorodecanoic acid (PFDA)	4.927	-0.01	6741	0.0009	0.024	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.117	-0.01	8647	-0.0012	0	U	Y
Perfluorododecanoic acid (PFDoDA)	0		0	0	0	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.463	+0.00	3499	0.0012	0.032	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.609	0.00	38906	-0.0007	0	U	Y
Perfluorooctane sulfonamide (FOSA)	5.238	+0.01	1680	0.0040	0.11	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.567	0.00	447	0.0061	0.16	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.940	+0.00	26	0.0008	0.021	U	Y

Prep Amount:	300.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

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190917_234

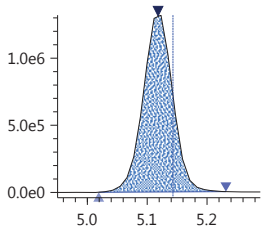
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Date acquired: 9/19/2019 7:58:35 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_234.lcd
Vial: 28 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.118	4581738	4581738	1	5.0000	ng/mL	----
PFBS_1	NI	----	----	1041010	2	----	ng/mL	----
PFBS-13C	Auto	4.029	1041672	4581738	1	4.8915	ng/mL	----
PFBS-13C_IS	Auto	4.029	1041010	1041010	2	5.0000	ng/mL	----
PFHxS_1	M	4.404	5879	730636	3	-0.0018	ng/mL	----
PFHxS-18O	Auto	4.404	730636	4581738	1	6.9319	ng/mL	----
PFHxS-18O_IS	Auto	4.404	730636	730636	3	5.0000	ng/mL	----
PFHpS_1	NI	----	----	730636	3	----	ng/mL	----
PFOS_1	M	4.716	2216	831020	4	0.0194	ng/mL	----
PFOS-13C	Auto	4.745	831020	4581738	1	5.4095	ng/mL	----
PFOS-13C_IS	Auto	4.745	831020	831020	4	5.0000	ng/mL	----
PFDS_1	NI	----	----	831020	4	----	ng/mL	----
PFBA	M	3.421	1794	4043014	5	0.0028	ng/mL	----
PFBA-13C	Auto	3.422	4043014	4581738	1	4.8636	ng/mL	----
PFBA-13C_IS	Auto	3.422	4043014	4043014	5	5.0000	ng/mL	----
PFPeA	M	3.976	70227	1715530	6	0.0007	ng/mL	----
PFPeA-13C	Auto	3.976	1715530	4581738	1	4.0622	ng/mL	----
PFPeA-13C_IS	Auto	3.976	1715530	1715530	6	5.0000	ng/mL	----
PFHxA	Auto	4.219	16756	4981891	7	-0.0034	ng/mL	----
PFHxA-13C	Auto	4.226	4981891	4581738	1	4.8940	ng/mL	----
PFHxA-13C_IS	Auto	4.226	4981891	4981891	7	5.0000	ng/mL	----
PFHpA	Auto	4.404	10326	4266092	8	-0.0061	ng/mL	----
PFHpA-13C	Auto	4.405	4266092	4581738	1	6.1963	ng/mL	----
PFHpA-13C_IS	Auto	4.405	4266092	4266092	8	5.0000	ng/mL	----
PFOA	Auto	4.579	18648	5220984	9	-0.0025	ng/mL	----
PFOA-13C	Auto	4.580	5220984	4581738	1	4.7071	ng/mL	----
PFOA-13C_IS	Auto	4.580	5220984	5220984	9	5.0000	ng/mL	----
PFNA	Auto	4.772	2283	3835184	10	-0.0215	ng/mL	----
PFNA-13C	Auto	4.756	3835184	4581738	1	4.9097	ng/mL	----
PFNA-13C_IS	Auto	4.756	3835184	3835184	10	5.0000	ng/mL	----
PFDA	Auto	4.927	6741	3254857	11	0.0009	ng/mL	----
PFDA-13C	Auto	4.937	3254857	4581738	1	5.0372	ng/mL	----
PFDA-13C_IS	Auto	4.937	3254857	3254857	11	5.0000	ng/mL	----
PFUnA	Auto	5.117	8647	3184215	12	-0.0012	ng/mL	----
PFUnA-13C	Auto	5.119	3184215	4581738	1	4.3844	ng/mL	----
PFUnA-13C_IS	Auto	5.119	3184215	3184215	12	5.0000	ng/mL	----
PFDoA	ND(W/B)	----	----	3671371	13	----	ng/mL	----
PFDoA-13C	Auto	5.295	3671371	4581738	1	4.1656	ng/mL	----
PFDoA-13C_IS	Auto	5.295	3671371	3671371	13	5.0000	ng/mL	----
PFTrDA	Auto	5.463	3499	3286321	14	0.0012	ng/mL	----
PFTeDA	Auto	5.609	38906	3286321	14	-0.0007	ng/mL	----
PFTeDA-13C	Auto	5.611	3286321	4581738	1	4.6975	ng/mL	----
PFTeDA-13C_IS	Auto	5.611	3286321	3286321	14	5.0000	ng/mL	----
FOSA	M	5.238	1680	1688267	16	0.0040	ng/mL	----
FOSA-13C	Auto	5.237	1688267	4581738	1	4.4229	ng/mL	----
FOSA-13C_IS	Auto	5.237	1688267	1688267	16	5.0000	ng/mL	----
N-MeFOSAA	ND(W/B)	----	----	298134	21	----	ng/mL	----
N-MeFOSAA-d3	Auto	5.039	298134	4581738	1	4.1807	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.039	298134	298134	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	290028	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.137	290028	4581738	1	4.4542	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.137	290028	290028	22	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.567	447	345131	24	0.0061	ng/mL	----
6_2-FTS-13C	Auto	4.567	345131	4581738	1	5.0600	ng/mL	----
6_2-FTS-13C_IS	Auto	4.567	345131	345131	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.940	26	233620	25	0.0008	ng/mL	----
8_2-FTS-13C	Auto	4.932	233620	4581738	1	5.2429	ng/mL	----
8_2-FTS-13C_IS	Auto	4.932	233620	233620	25	5.0000	ng/mL	----

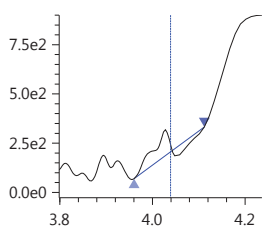
Insight Report

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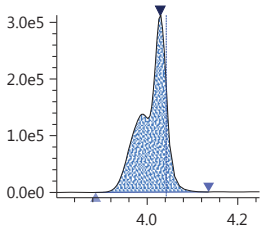
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Conc 5.0000
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ISTD 570.00>525.00 (-) 1.32e6



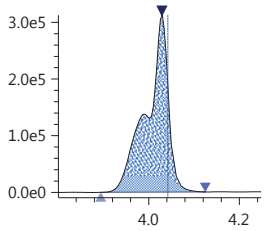
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 (-) 9.00e2



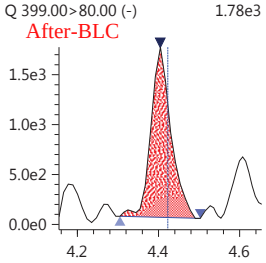
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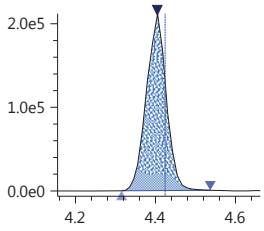
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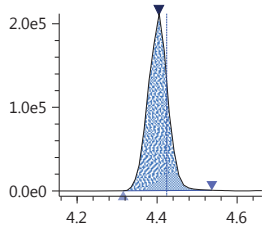
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Q 399.00>80.00 (-) 1.78e3



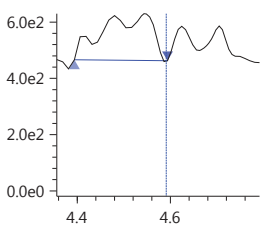
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Q 402.70>84.05 (-) 2.12e5



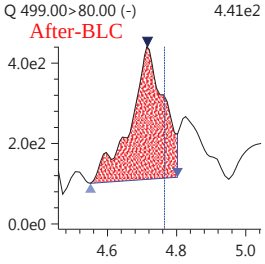
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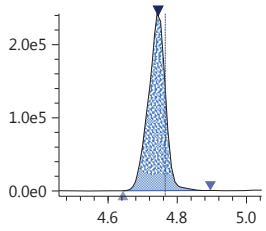
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Conc ----
RT ---- Area ----
Q 449.00>80.15 (-) 6.30e2



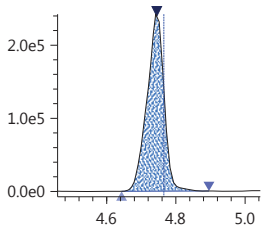
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Conc 0.0194
RT 4.716 Area 2216
Q 499.00>80.00 (-) 4.41e2



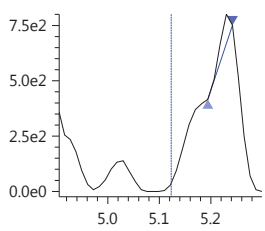
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Q 502.80>80.05 (-) 2.42e5



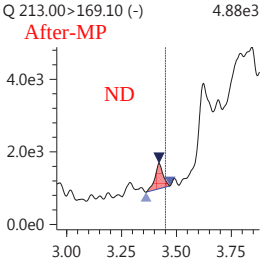
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RT 4.745 Area 831020
ISTD 502.80>80.05 (-) 2.42e5



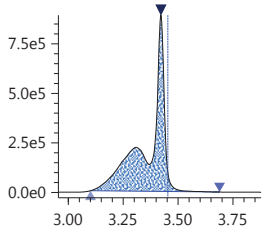
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Conc ----
RT ---- Area ----
Q 599.00>79.90 (-) 8.01e2



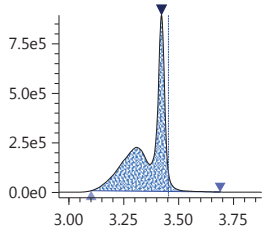
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RT 3.421 Area 1794
Q 213.00>169.10 (-) 4.88e3



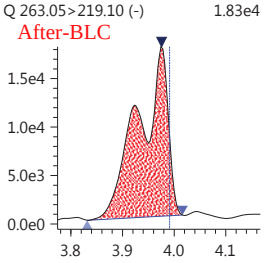
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RT 3.422 Area 4043014
Q 216.90>172.15 (-) 8.95e5



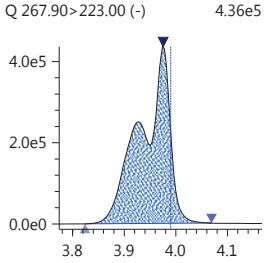
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RT 3.422 Area 4043014
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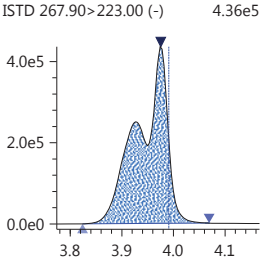
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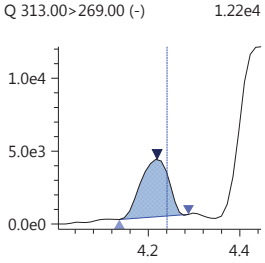
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Q 267.90>223.00 (-) 4.36e5



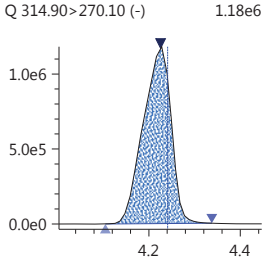
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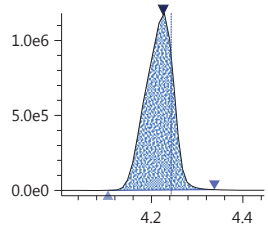
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Q 314.90>270.10 (-) 1.18e6



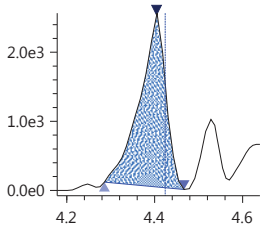
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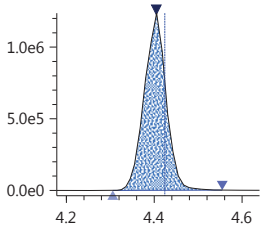
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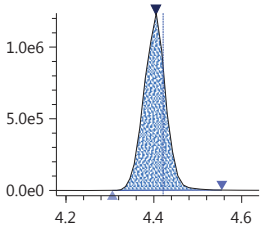
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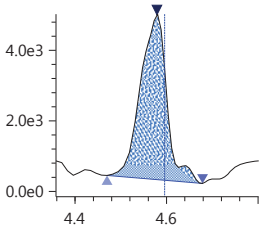
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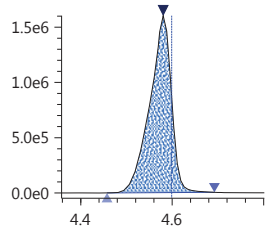
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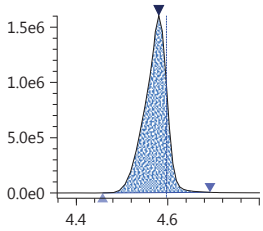
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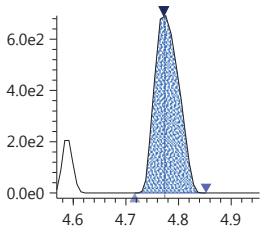
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Q 416.80>372.05 (-) 1.60e6



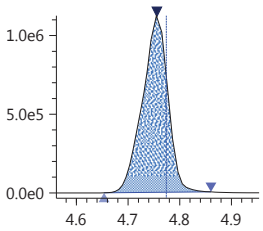
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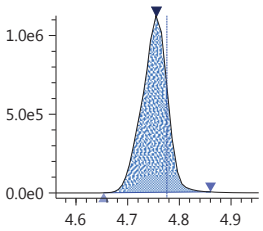
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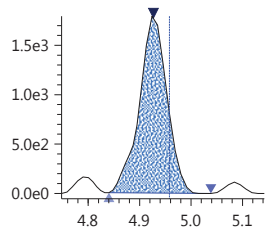
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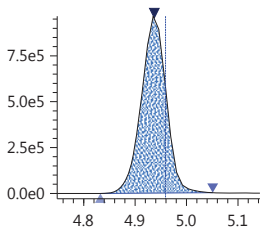
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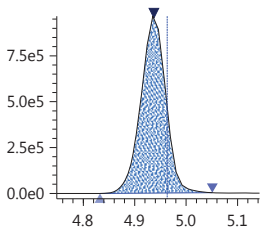
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Q 513.00>468.80 (-) 1.80e3



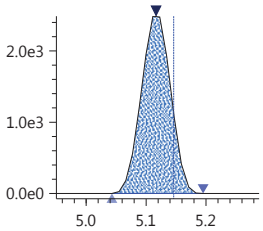
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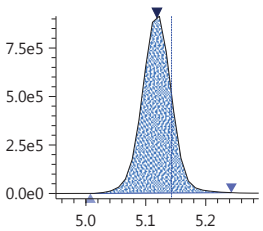
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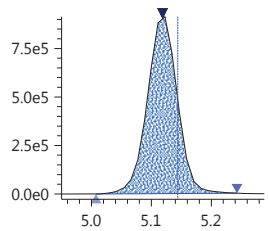
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RT 5.117 Area 8647
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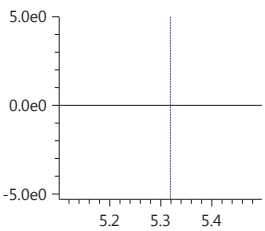
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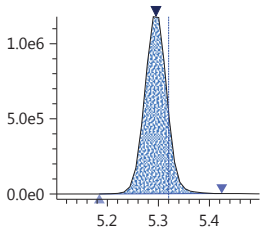
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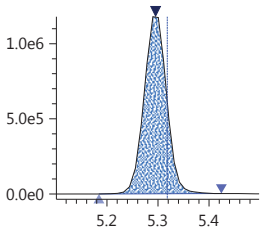
PFDoA
Conc ----
RT ---- Area ----
Q 613.05>569.00 (-) 0.00e0



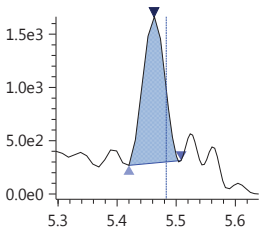
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Conc 4.1656
RT 5.295 Area 3671371
Q 614.80>569.95 (-) 1.18e6



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Conc 5.0000
RT 5.295 Area 3671371
ISTD 614.80>569.95 (-) 1.18e6



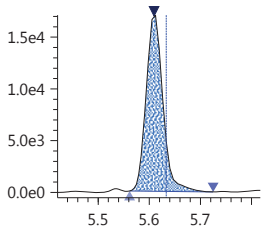
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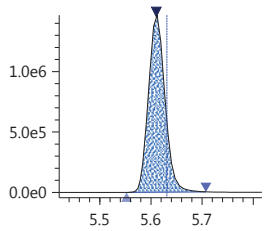
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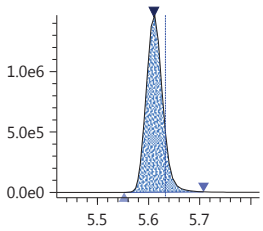
PFTeDA
Conc -0.0007
RT 5.609 Area 38906
Q 713.40>669.00 (-) 1.71e4



PFTeDA-13C
Conc 4.6975
RT 5.611 Area 3286321
Q 714.70>669.90 (-) 1.47e6

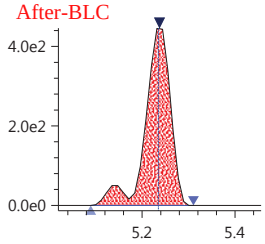


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Conc 5.0000
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ISTD 714.70>669.90 (-) 1.47e6

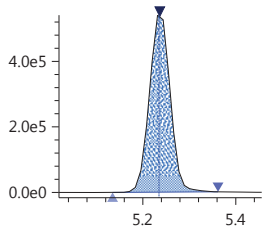


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Conc 0.0040
RT 5.238 Area 1680
Q 498.20>78.00 (-) 4.46e2

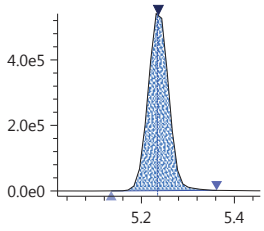
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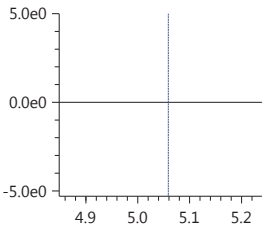
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Conc 4.4229
RT 5.237 Area 1688267
Q 506.00>78.05 (-) 5.41e5



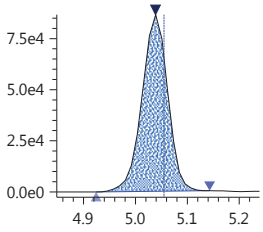
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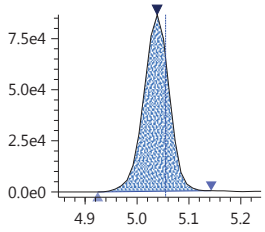
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



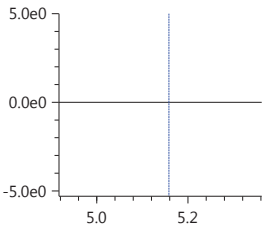
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RT 5.039 Area 298134
Q 572.80>419.05 (-) 8.67e4



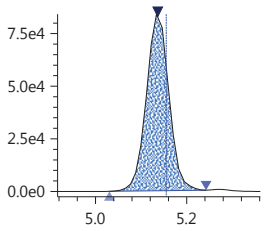
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ISTD 572.80>419.05 (-) 8.67e4



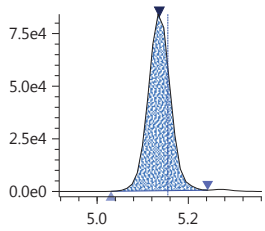
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



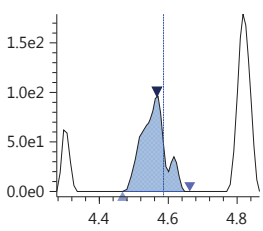
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RT 5.137 Area 290028
Q 588.80>419.00 (-) 8.42e4



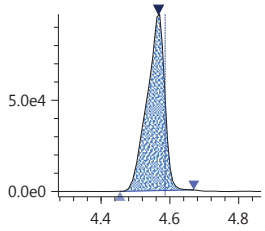
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RT 5.137 Area 290028
ISTD 588.80>419.00 (-) 8.42e4



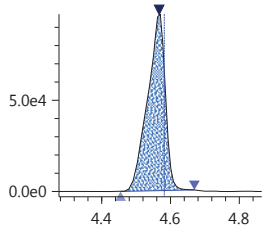
6_2-FTS_1
Conc 0.0061
RT 4.567 Area 447
Q 427.00>407.00 (-) 1.79e2



6_2-FTS-13C
Conc 5.0600
RT 4.567 Area 345131
Q 428.90>409.00 (-) 9.72e4

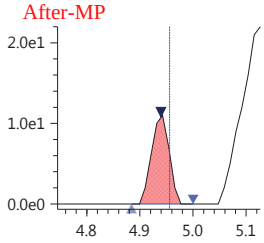


6_2-FTS-13C_IS
Conc 5.0000
RT 4.567 Area 345131
ISTD 428.90>409.00 (-) 9.72e4

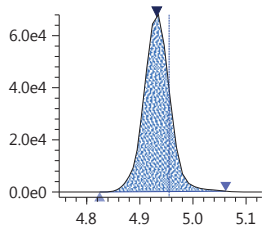


8_2-FTS_1
Conc 0.0008
RT 4.940 Area 26
Q 527.10>506.90 (-) 2.20e1

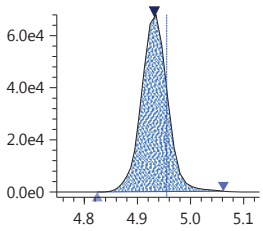
After-MP



8_2-FTS-13C
Conc 5.2429
RT 4.932 Area 233620
Q 528.80>509.00 (-) 6.80e4



8_2-FTS-13C_IS
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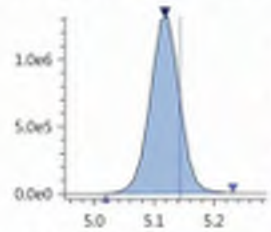
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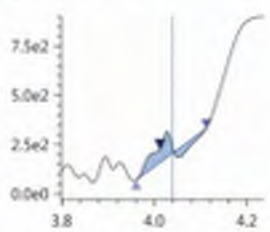
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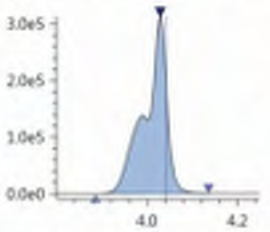
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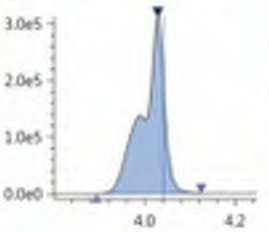
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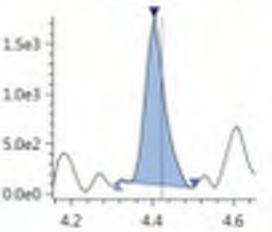
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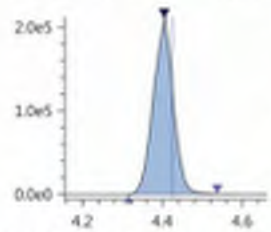
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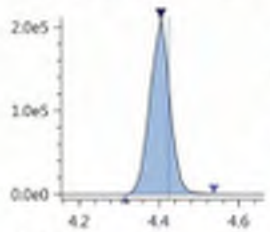
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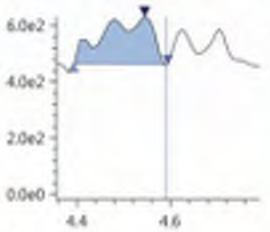
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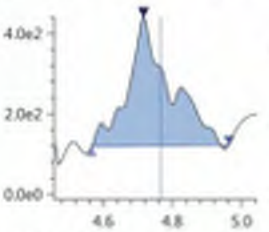
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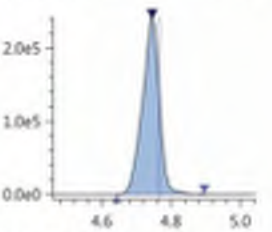
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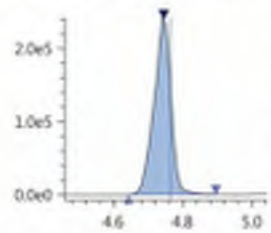
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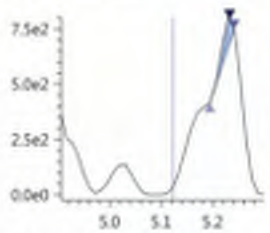
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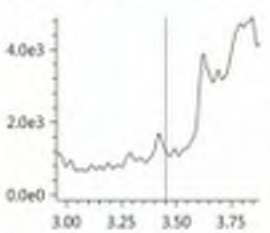
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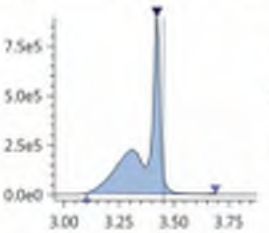
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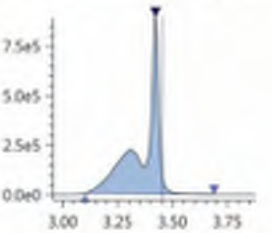
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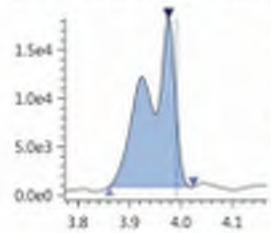
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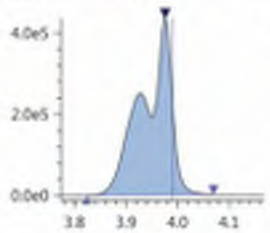
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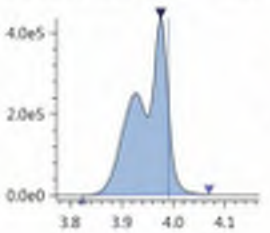
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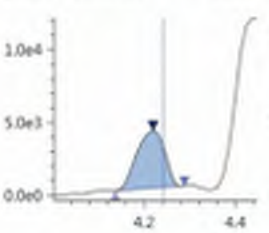
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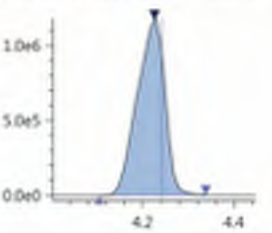
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Conc -0.0034
RT 4.219 Area 16756
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Q 314.90>270.10 (-) 1.18e6

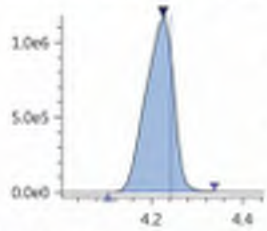


Manual Integration - Before

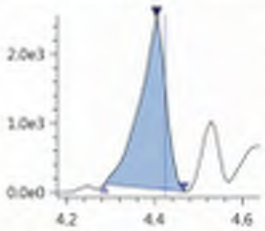
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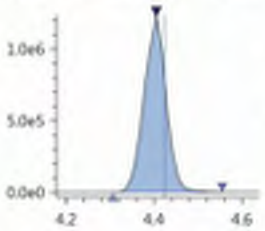
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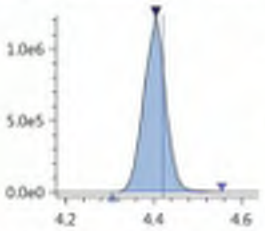
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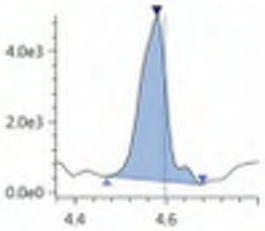
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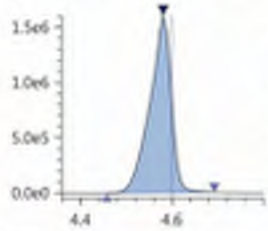
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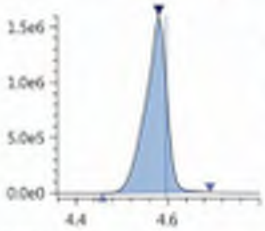
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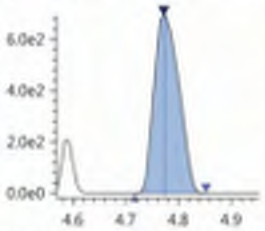
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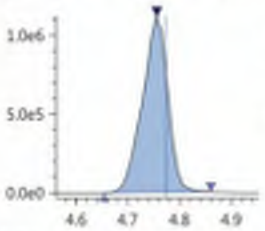
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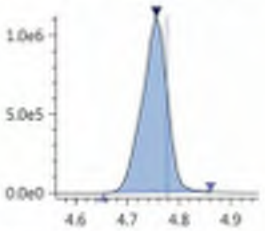
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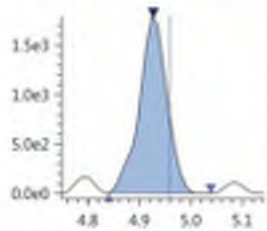
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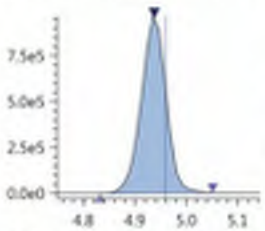
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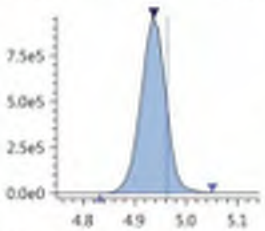
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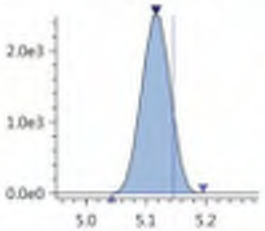
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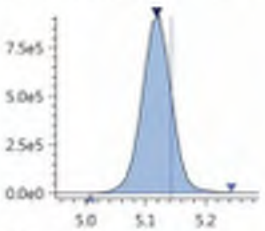
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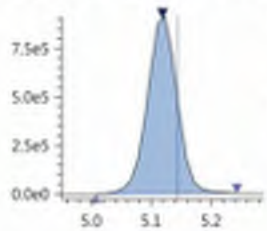
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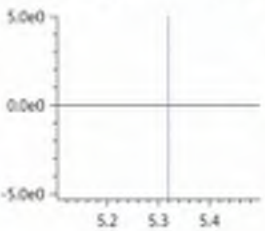
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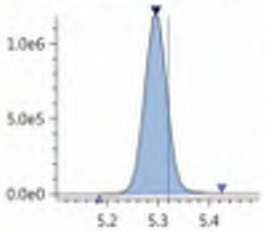
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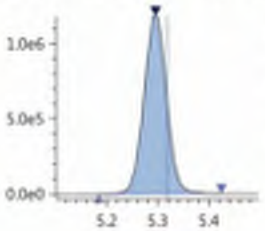
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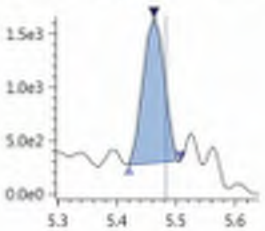
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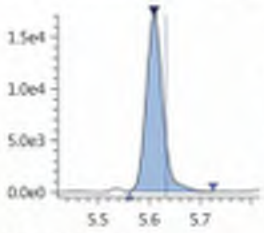
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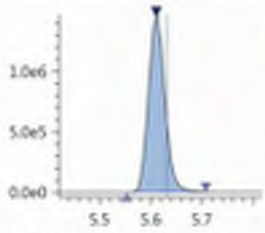
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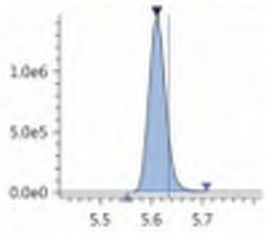
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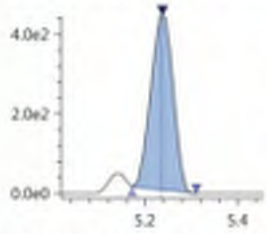
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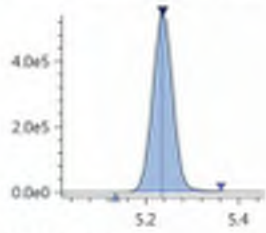
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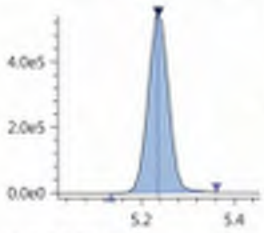
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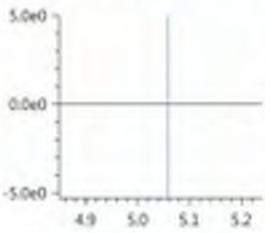
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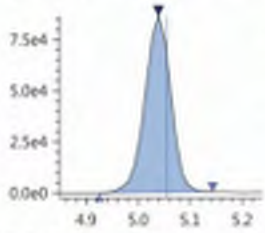
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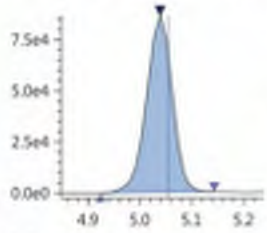
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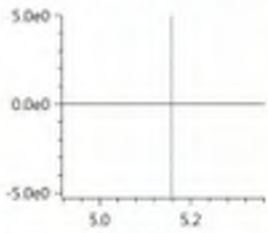
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Conc 4.1807
RT 5.039 Area 298134
Q 572.80>419.05 (-) 8.67e4



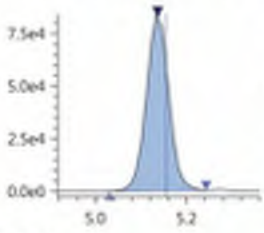
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ISTD 572.80>419.05 (-) 8.67e4



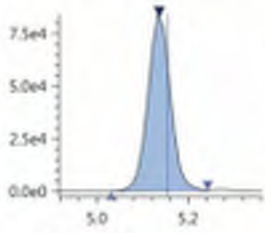
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RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



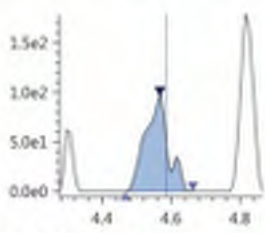
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Conc 4.4542
RT 5.137 Area 290028
Q 588.80>419.00 (-) 8.42e4



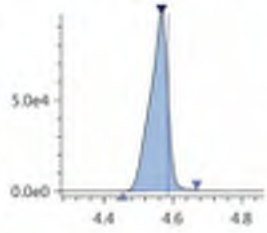
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Conc 5.0000
RT 5.137 Area 290028
ISTD 588.80>419.00 (-) 8.42e4



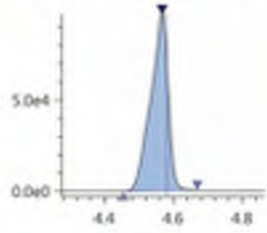
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Conc 0.0061
RT 4.567 Area 447
Q 427.00>407.00 (-) 1.79e2



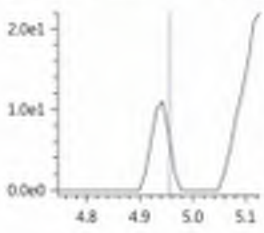
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Conc 5.0600
RT 4.567 Area 345131
Q 428.90>409.00 (-) 9.72e4



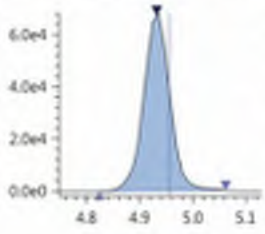
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Conc 5.0000
RT 4.567 Area 345131
ISTD 428.90>409.00 (-) 9.72e4



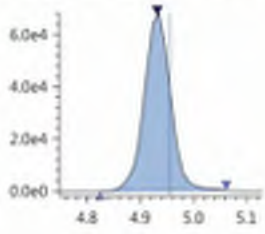
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Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 2.20e1



8_2-FTS-13C
Conc 5.2429
RT 4.932 Area 233620
Q 528.80>509.00 (-) 6.80e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.932 Area 233620
ISTD 528.80>509.00 (-) 6.80e4



1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_235
Lab ID: R1908707-006
RunType: N/A
Matrix: Water

Date Acquired: 9/19/19 08:09
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	Perfluorodecane sulfonic acid (PFDS)	144	70	130	Narrate high bias, ND
	13C4-PFHpA	136	70	130	Narrate native ok
	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	Narrate high bias, ND
	13C3-PFBS	139	70	130	Narrate high bias, ND
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	Narrate high bias, ND
Surrogates	13C3-PFBS	119	20	109	Narrate high bias, ND
	18O2-PFHxS	131	26	122	Narrate high bias, ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_235	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 08:09	**Vial:**	12
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-006	**Raw Units:**	ng/mL

Bottle ID:	R1908707-006.01	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	R1908707
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.116	-0.01	3683259	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.019	-0.01	1017768	5.9451	119	*	20 - 109	Y
18O2-PFHxS	4.398	-0.01	555581	6.5569	131	*	26 - 122	Y
13C4-PFOS	4.737	-0.01	728187	5.8964	118		25 - 121	Y
13C4-PFBA	3.413	-0.02	3887868	5.8178	116		27 - 124	Y
13C5-PFPeA	3.966	-0.01	1617223	4.7635	95		27 - 138	Y
13C2-PFHxA	4.218	-0.01	4650849	5.6833	114		28 - 132	Y
13C4-PFHpA	4.398	-0.01	3622601	6.5452	131		19 - 139	Y
13C4-PFOA	4.572	-0.01	4166604	4.6728	93		22 - 130	Y
13C5-PFNA	4.750	-0.01	3370080	5.3667	107		20 - 127	Y
13C2-PFDA	4.932	-0.01	2714192	5.2251	105		24 - 125	Y
13C2-PFUnDA	5.116	-0.01	2845654	4.8741	97		22 - 125	Y
13C2-PFDoDA	5.290	-0.01	2526177	3.5654	71		19 - 122	Y
13C2-PFTeDA	5.605	-0.01	2655316	4.7214	94		13 - 124	Y
13C8-FOSA	5.231	0.00	1156335	3.7683	75		18 - 109	Y
D3-MeFOSAA	5.034	0.00	298476	5.2065	104		9 - 123	Y
D5-EtFOSAA	5.130	0.00	289491	5.5305	111		12 - 126	Y
13C2-6:2 FTS	4.559	-0.01	347466	6.3368	127		10 - 226	Y
13C2-8:2 FTS	4.929	-0.01	230227	6.4271	129		10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	0		0	0	0	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.400	-0.01	3749	-0.0073	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_235	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 08:09	**Vial:**	12
Run Type:	N/A	**Dilution:**	1
Lab ID:	R1908707-006	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.733	-0.02	1158	0.0116	0.34	U	Y
Perfluorodecane sulfonic acid (PFDS)	5.098	-0.01	1364	0.0136	0.40	J	Y
Perfluorobutanoic acid (PFBA)	3.415	-0.01	1497	0.0025	0.073	U	Y
Perfluoropentanoic acid (PFPeA)	3.966	-0.01	67607	0.0031	0.090	U	Y
Perfluorohexanoic acid (PFHxA)	4.207	-0.02	14200	-0.0050	0	U	Y
Perfluoroheptanoic acid (PFHpA)	4.389	-0.02	6483	-0.0093	0	U	Y
Perfluorooctanoic acid (PFOA)	4.570	-0.01	15212	-0.0020	0	U	Y
Perfluorononanoic acid (PFNA)	4.781	+0.02	1181	-0.0230	0	U	Y
Perfluorodecanoic acid (PFDA)	4.934	-0.01	3500	-0.0041	0	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.114	-0.01	4885	-0.0089	0	U	Y
Perfluorododecanoic acid (PFDoDA)	5.280	-0.02	3994	0.0397	1.2	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.477	+0.02	3503	0.0025	0.073	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.605	-0.01	37734	0.0289	0.84	U	Y
Perfluorooctane sulfonamide (FOSA)	5.232		2071	0.0072	0.21	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.563	-0.01	440	0.0060	0.17	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.930	-0.01	118	0.0036	0.10	U	Y

Prep Amount:	275.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

Printed at 9/19/2019 3:30:48 PM

190917_235

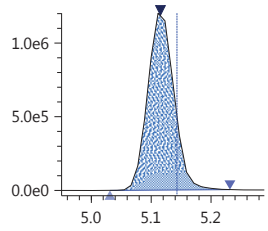
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Date acquired: 9/19/2019 8:09:03 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_235.lcd
Vial: 29 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.116	3683259	3683259	1	5.0000	ng/mL	----
PFBS_1	NI	----	----	1014902	2	----	ng/mL	----
PFBS-13C	Auto	4.019	1017768	3683259	1	5.9451	ng/mL	----
PFBS-13C_IS	Auto	4.019	1014902	1014902	2	5.0000	ng/mL	----
PFHxS_1	M	4.400	3749	555581	3	-0.0073	ng/mL	----
PFHxS-18O	Auto	4.398	555581	3683259	1	6.5569	ng/mL	----
PFHxS-18O_IS	Auto	4.398	555581	555581	3	5.0000	ng/mL	----
PFHpS_1	NI	----	----	555581	3	----	ng/mL	----
PFOS_1	M	4.733	1158	728187	4	0.0116	ng/mL	----
PFOS-13C	Auto	4.737	728187	3683259	1	5.8964	ng/mL	----
PFOS-13C_IS	Auto	4.737	728187	728187	4	5.0000	ng/mL	----
PFDS_1	M	5.098	1364	728187	4	0.0136	ng/mL	----
PFBA	M	3.415	1497	3887868	5	0.0025	ng/mL	----
PFBA-13C	Auto	3.413	3887868	3683259	1	5.8178	ng/mL	----
PFBA-13C_IS	Auto	3.413	3887868	3887868	5	5.0000	ng/mL	----
PFPeA	Auto	3.966	67607	1617223	6	0.0031	ng/mL	----
PFPeA-13C	Auto	3.966	1617223	3683259	1	4.7635	ng/mL	----
PFPeA-13C_IS	Auto	3.966	1617223	1617223	6	5.0000	ng/mL	----
PFHxA	Auto	4.207	14200	4650849	7	-0.0050	ng/mL	----
PFHxA-13C	Auto	4.218	4650849	3683259	1	5.6833	ng/mL	----
PFHxA-13C_IS	Auto	4.218	4650849	4650849	7	5.0000	ng/mL	----
PFHpA	M	4.389	6483	3622601	8	-0.0093	ng/mL	----
PFHpA-13C	Auto	4.398	3622601	3683259	1	6.5452	ng/mL	----
PFHpA-13C_IS	Auto	4.398	3622601	3622601	8	5.0000	ng/mL	----
PFOA	Auto	4.570	15212	4166604	9	-0.0020	ng/mL	----
PFOA-13C	Auto	4.572	4166604	3683259	1	4.6728	ng/mL	----
PFOA-13C_IS	Auto	4.572	4166604	4166604	9	5.0000	ng/mL	----
PFNA	Auto	4.781	1181	3370080	10	-0.0230	ng/mL	----
PFNA-13C	Auto	4.750	3370080	3683259	1	5.3667	ng/mL	----
PFNA-13C_IS	Auto	4.750	3370080	3370080	10	5.0000	ng/mL	----
PFDA	Auto	4.934	3500	2714192	11	-0.0041	ng/mL	----
PFDA-13C	Auto	4.932	2714192	3683259	1	5.2251	ng/mL	----
PFDA-13C_IS	Auto	4.932	2714192	2714192	11	5.0000	ng/mL	----
PFUnA	M	5.114	4885	2845654	12	-0.0089	ng/mL	----
PFUnA-13C	Auto	5.116	2845654	3683259	1	4.8741	ng/mL	----
PFUnA-13C_IS	Auto	5.116	2845654	2845654	12	5.0000	ng/mL	----
PFDoA	Auto	5.280	3994	2526177	13	0.0397	ng/mL	----
PFDoA-13C	Auto	5.290	2526177	3683259	1	3.5654	ng/mL	----
PFDoA-13C_IS	Auto	5.290	2526177	2526177	13	5.0000	ng/mL	----
PFTrDA	Auto	5.477	3503	2655316	14	0.0025	ng/mL	----
PFTeDA	Auto	5.605	37734	2655316	14	0.0289	ng/mL	----
PFTeDA-13C	Auto	5.605	2655316	3683259	1	4.7214	ng/mL	----
PFTeDA-13C_IS	Auto	5.605	2655316	2655316	14	5.0000	ng/mL	----
FOSA	Auto	5.232	2071	1156335	16	0.0072	ng/mL	----
FOSA-13C	Auto	5.231	1156335	3683259	1	3.7683	ng/mL	----
FOSA-13C_IS	Auto	5.231	1156335	1156335	16	5.0000	ng/mL	----
N-MeFOSAA	ND(W/B)	----	----	298476	21	----	ng/mL	----
N-MeFOSAA-d3	Auto	5.034	298476	3683259	1	5.2065	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.034	298476	298476	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	289491	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.130	289491	3683259	1	5.5305	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.130	289491	289491	22	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.563	440	347466	24	0.0060	ng/mL	----
6_2-FTS-13C	Auto	4.559	347466	3683259	1	6.3368	ng/mL	----
6_2-FTS-13C_IS	Auto	4.559	347466	347466	24	5.0000	ng/mL	----
8_2-FTS_1	Auto	4.930	118	230227	25	0.0036	ng/mL	----
8_2-FTS-13C	Auto	4.929	230227	3683259	1	6.4271	ng/mL	----
8_2-FTS-13C_IS	Auto	4.929	230227	230227	25	5.0000	ng/mL	----

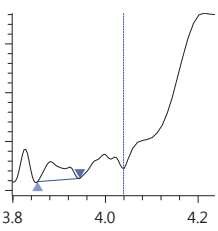
Insight Report

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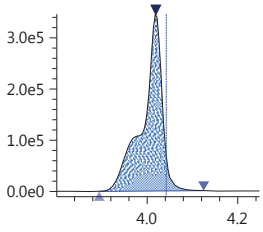
13C7-PFUnDA_IS
Conc 5.0000
RT 5.116 Area 3683259
ISTD 570.00>525.00 (-) 1.20e6



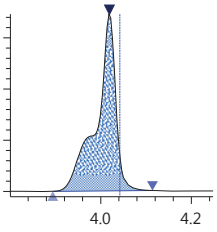
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 (-) 9.07e2



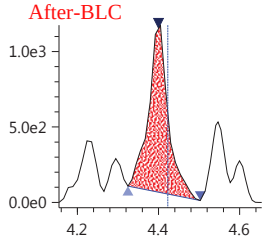
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Conc 5.9451
RT 4.019 Area 1017768
Q 301.80>80.00 (-) 3.46e5



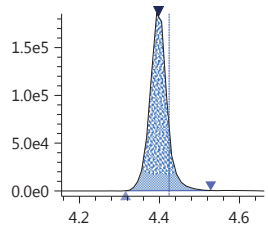
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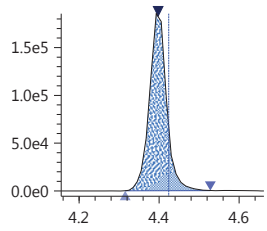
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Conc -0.0073
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Q 399.00>80.00 (-) 1.18e3



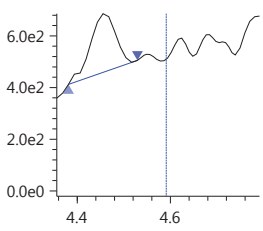
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RT 4.398 Area 555581
Q 402.70>84.05 (-) 1.85e5



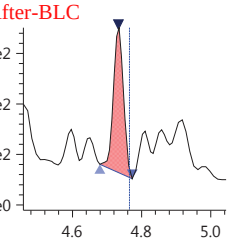
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Conc 5.0000
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ISTD 402.70>84.05 (-) 1.85e5



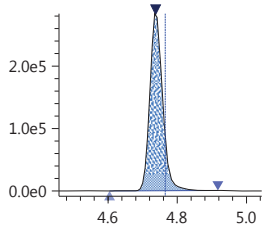
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Conc ----
RT ---- Area ----
Q 449.00>80.15 (-) 6.86e2



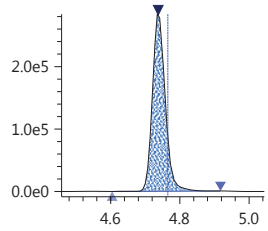
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Conc 0.0116
RT 4.733 Area 1158
Q 499.00>80.00 (-) 7.02e2



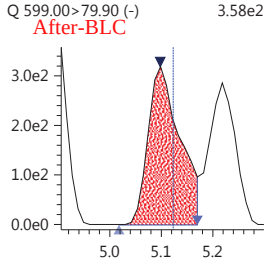
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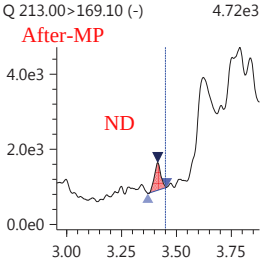
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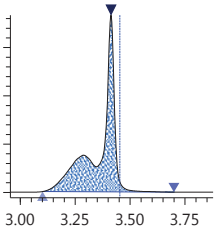
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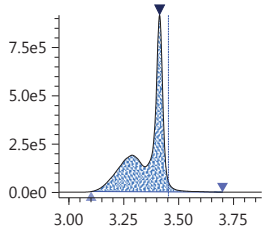
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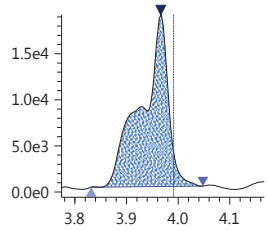
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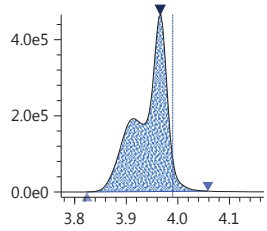
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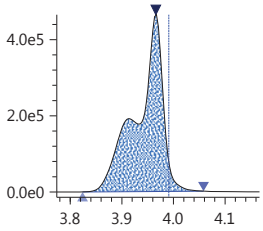
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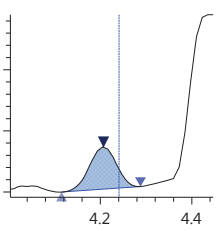
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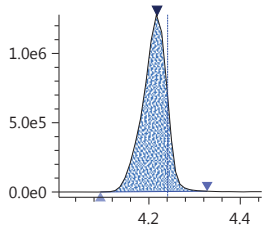
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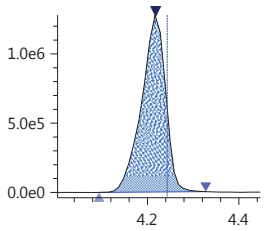
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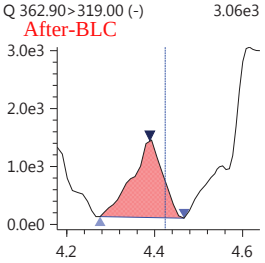
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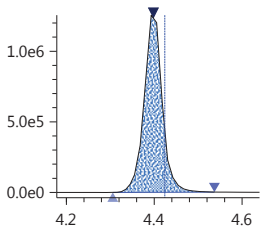
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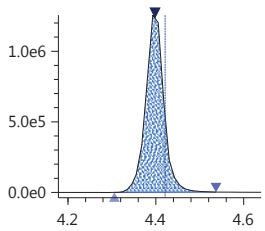
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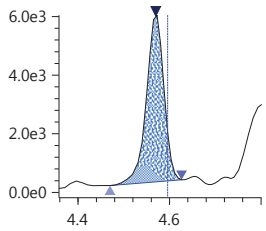
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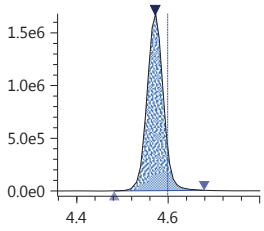
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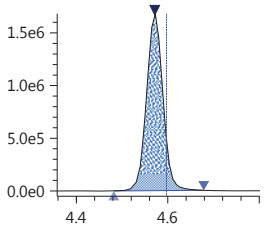
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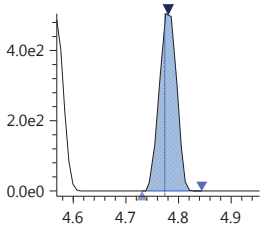
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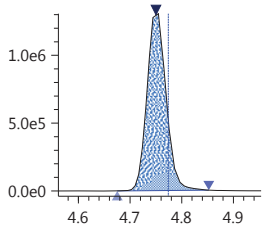
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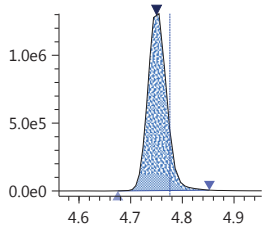
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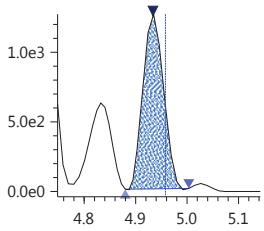
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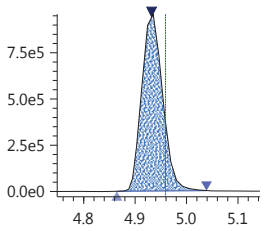
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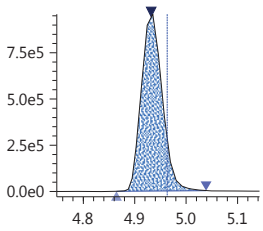
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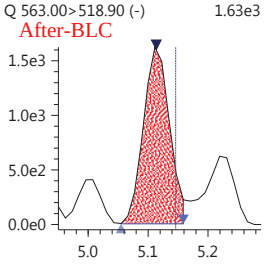
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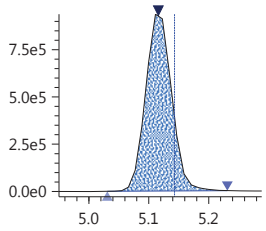
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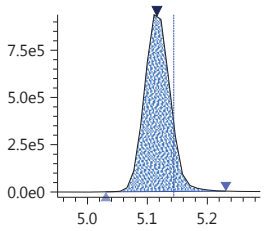
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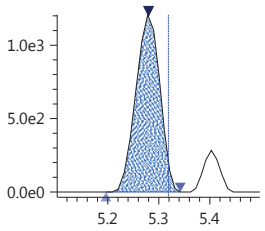
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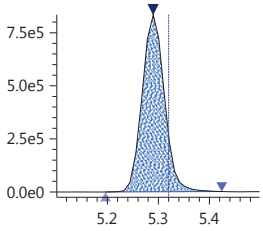
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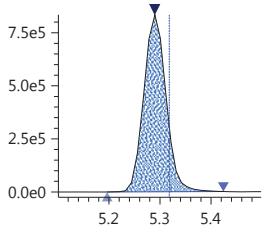
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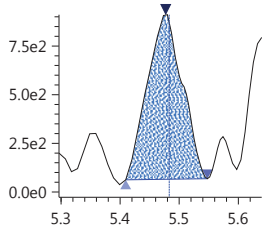
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Q 614.80>569.95 (-) 8.35e5



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ISTD 614.80>569.95 (-) 8.35e5



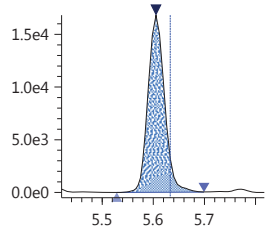
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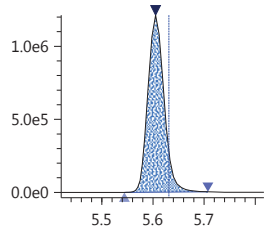
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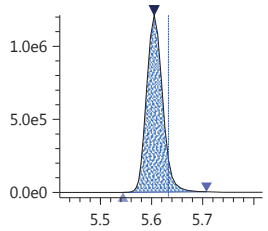
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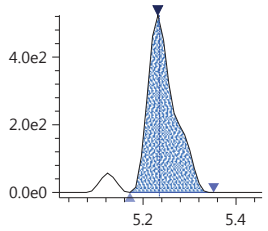
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Q 714.70>669.90 (-) 1.21e6



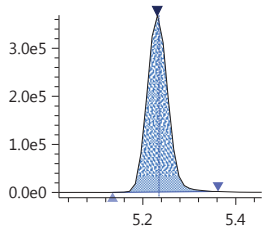
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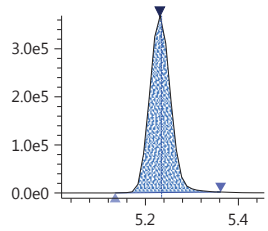
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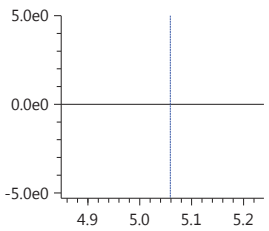
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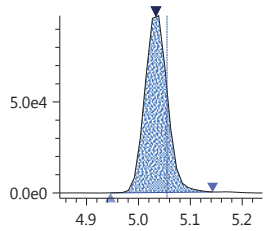
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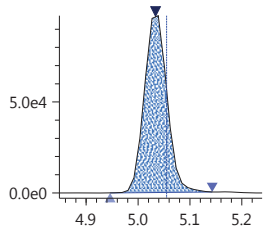
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Conc ----
RT ---- Area ----
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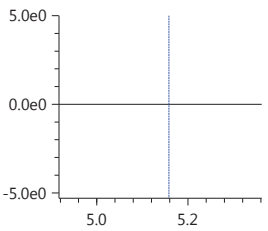
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Q 572.80>419.05 (-) 9.75e4



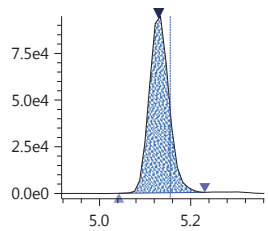
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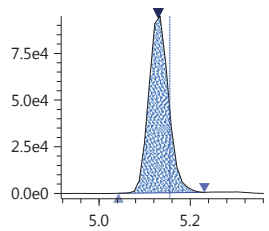
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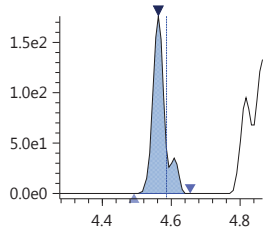
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Q 588.80>419.00 (-) 9.49e4



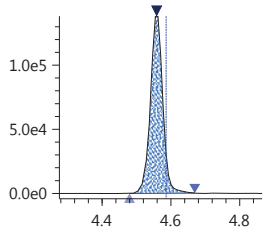
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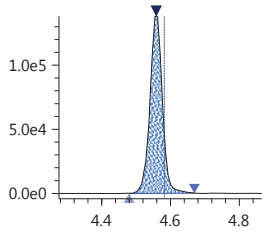
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RT 4.563 Area 440
Q 427.00>407.00 (-) 1.76e2



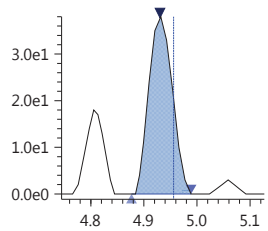
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RT 4.559 Area 347466
Q 428.90>409.00 (-) 1.38e5



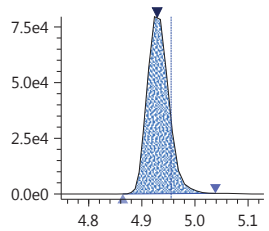
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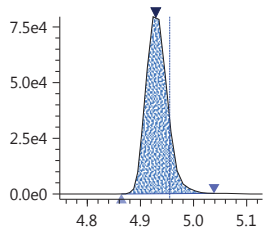
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RT 4.930 Area 118
Q 527.10>506.90 (-) 3.80e1



8_2-FTS-13C
Conc 6.4271
RT 4.929 Area 230227
Q 528.80>509.00 (-) 7.96e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.929 Area 230227
ISTD 528.80>509.00 (-) 7.96e4



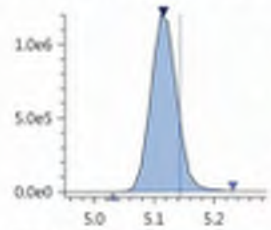
Insight Report

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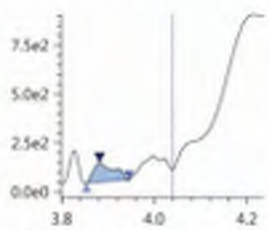
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Date acquired: 9/19/2019 8:09:03 AM
Acquired by: System Administrator
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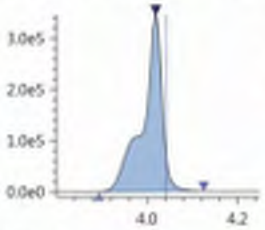
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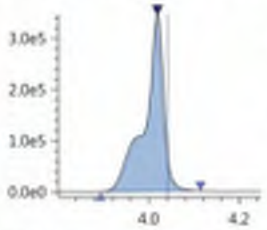
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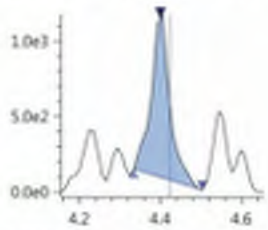
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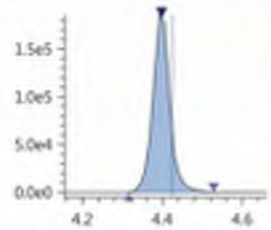
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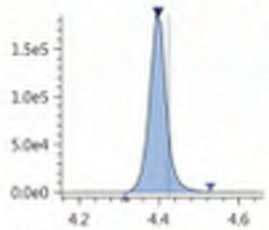
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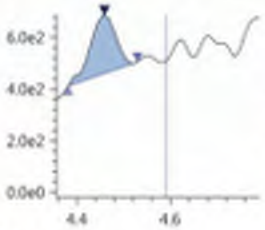
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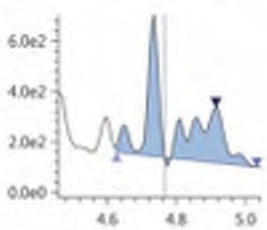
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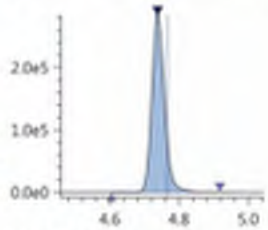
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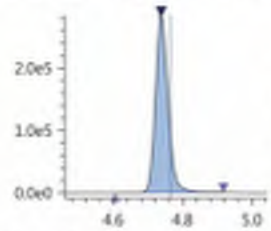
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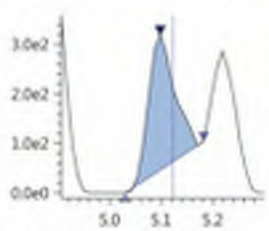
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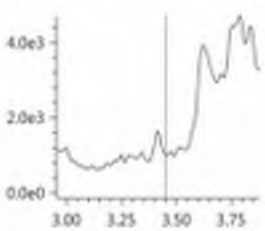
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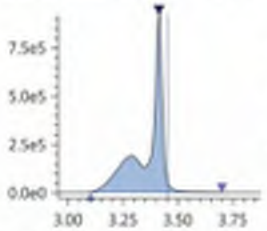
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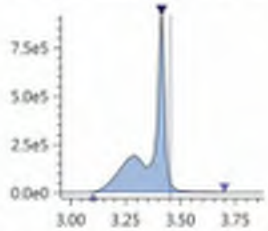
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Conc ----
RT ---- Area ----
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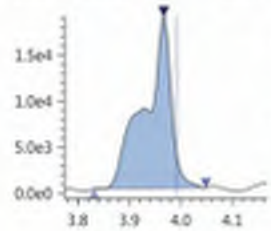
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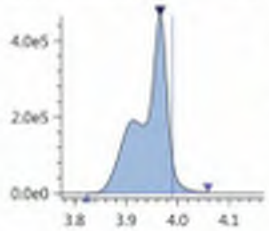
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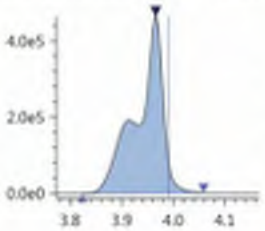
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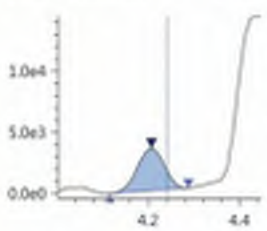
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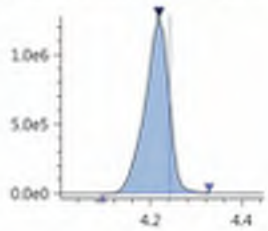
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RT 4.207 Area 14200
Q 313.00>269.00 (-) 1.45e4



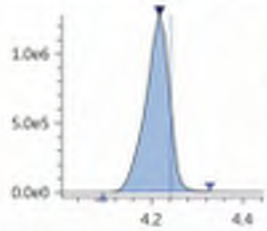
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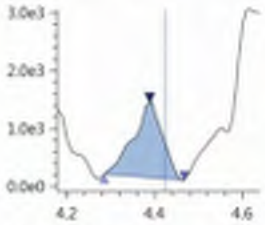
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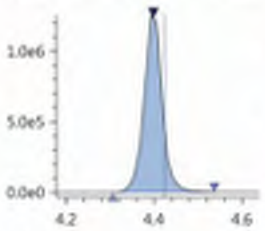
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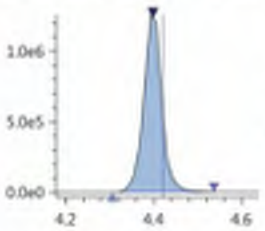
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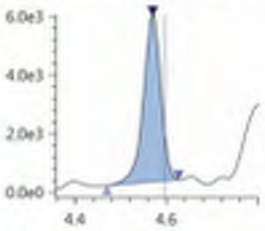
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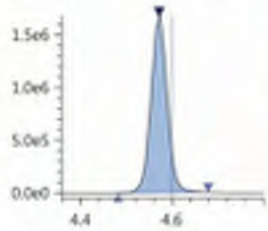
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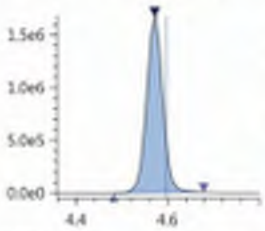
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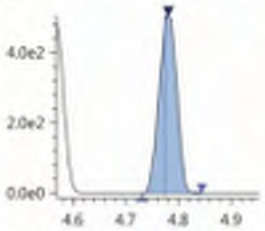
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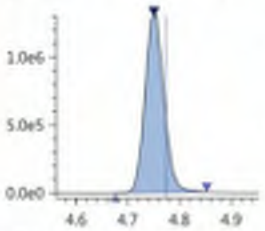
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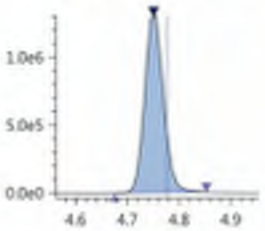
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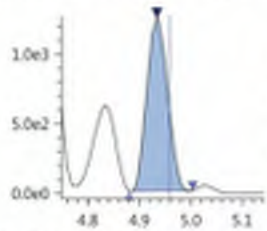
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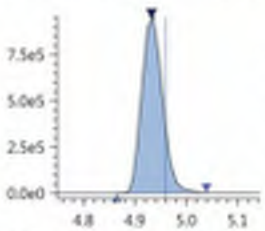
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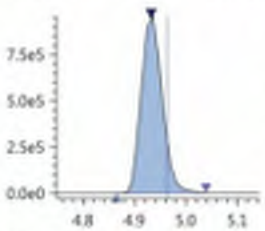
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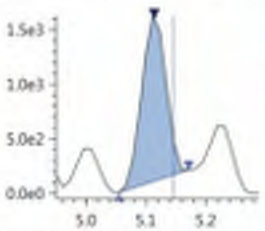
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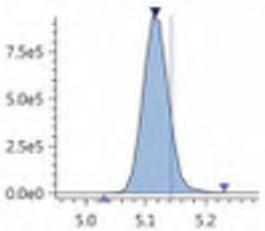
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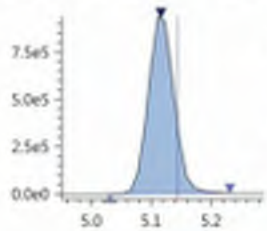
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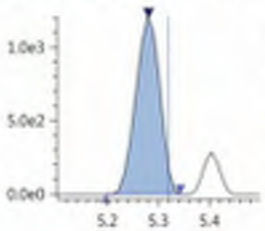
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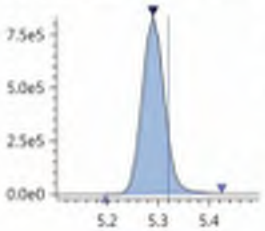
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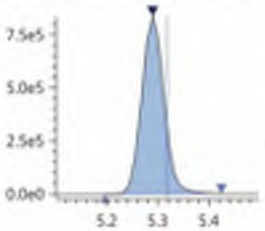
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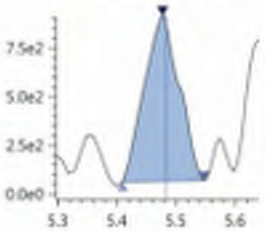
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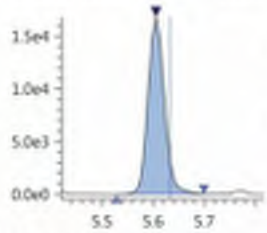
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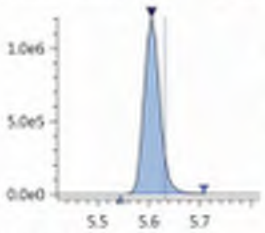
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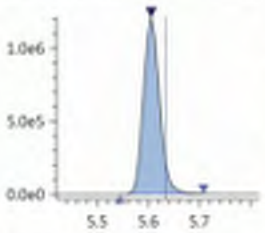
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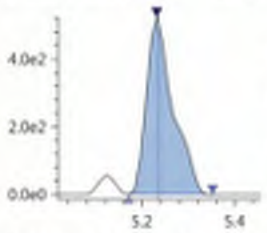
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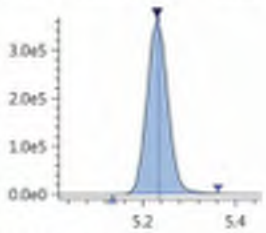
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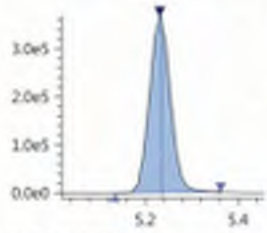
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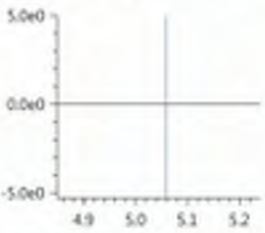
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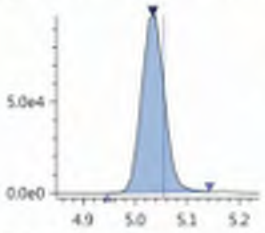
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ISTD 506.00>78.05 (-) 3.69e5



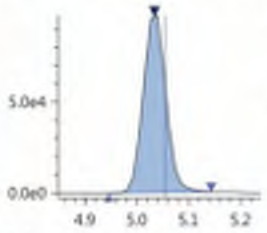
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Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



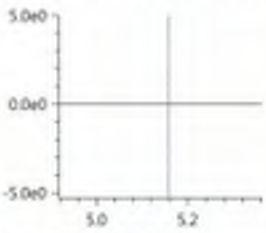
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Conc 5.2065
RT 5.034 Area 298476
Q 572.80>419.05 (-) 9.75e4



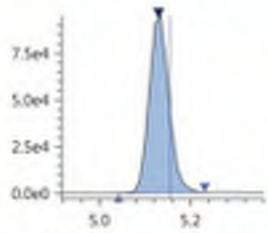
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Conc 5.0000
RT 5.034 Area 298476
ISTD 572.80>419.05 (-) 9.75e4



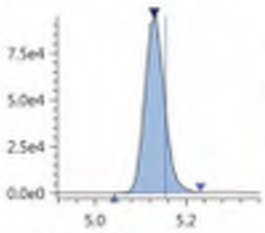
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



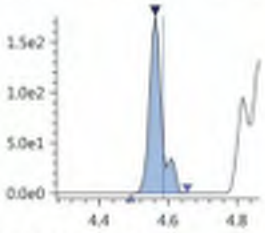
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Conc 5.5305
RT 5.130 Area 289491
Q 588.80>419.00 (-) 9.49e4



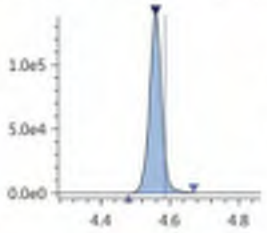
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Conc 5.0000
RT 5.130 Area 289491
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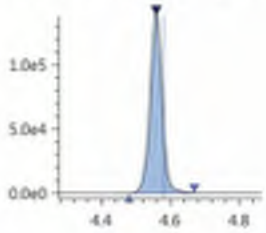
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Conc 0.0060
RT 4.563 Area 440
Q 427.00>407.00 (-) 1.76e2



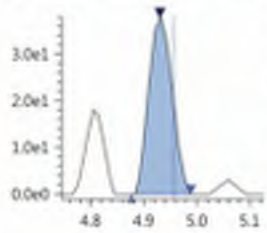
6_2-FTS-13C
Conc 6.3368
RT 4.559 Area 347466
Q 428.90>409.00 (-) 1.38e5



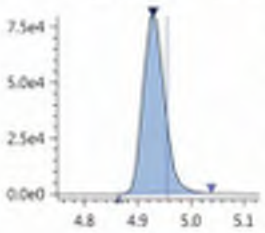
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Conc 5.0000
RT 4.559 Area 347466
ISTD 428.90>409.00 (-) 1.38e5



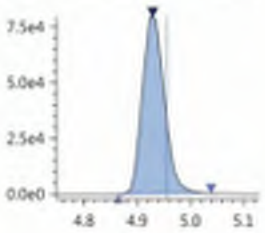
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Conc 0.0036
RT 4.930 Area 118
Q 527.10>506.90 (-) 3.80e1



8_2-FTS-13C
Conc 6.4271
RT 4.929 Area 230227
Q 528.80>509.00 (-) 7.96e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.929 Area 230227
ISTD 528.80>509.00 (-) 7.96e4



1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_226
Lab ID: KQ1913122-06
RunType: MB
Matrix: Water

Date Acquired: 9/19/19 06:34
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	Narrate high bias, ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	Narrate high bias, ND
	13C3-PFBS	139	70	130	Narrate native ok
	13C4-PFHpA	136	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	Narrate high bias, ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_226	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:34	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ1913122-06	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/11/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	KQ1913122
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.110	-0.01	5901170	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.021	-0.01	1420019	5.1772	104	20 - 109	Y
18O2-PFHxS	4.391	-0.02	748781	5.5157	110	26 - 122	Y
13C4-PFOS	4.735	-0.01	930362	4.7021	94	25 - 121	Y
13C4-PFBA	3.414	-0.01	4817421	4.4995	90	27 - 124	Y
13C5-PFPeA	3.968	-0.01	2383157	4.3813	88	27 - 138	Y
13C2-PFHxA	4.214	-0.02	6960950	5.3092	106	28 - 132	Y
13C4-PFHpA	4.391	-0.02	5068036	5.7152	114	19 - 139	Y
13C4-PFOA	4.572	-0.01	7017510	4.9122	98	22 - 130	Y
13C5-PFNA	4.748	-0.01	5234767	5.2031	104	20 - 127	Y
13C2-PFDA	4.927	-0.01	3976558	4.7781	96	24 - 125	Y
13C2-PFUnDA	5.111	-0.01	4391593	4.6949	94	22 - 125	Y
13C2-PFDoDA	5.285	-0.01	4383233	3.8613	77	19 - 122	Y
13C2-PFTeDA	5.602	-0.01	3858698	4.2824	86	13 - 124	Y
13C8-FOSA	5.226	-0.01	2141281	4.3555	87	18 - 109	Y
D3-MeFOSAA	5.028	-0.01	383684	4.1774	84	9 - 123	Y
D5-EtFOSAA	5.125	-0.01	411907	4.9116	98	12 - 126	Y
13C2-6:2 FTS	4.558	-0.01	515855	5.8720	117	10 - 226	Y
13C2-8:2 FTS	4.924	-0.01	360978	6.2897	126	10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.024	-0.01	373	0.0013	0.042	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.392	-0.02	6422	0.0005	0.016	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_226	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:34	**Vial:**	3
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ1913122-06	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.712	-0.04	2648	0.0207	0.66	J	Y
Perfluorodecane sulfonic acid (PFDS)	5.122	+0.02	369	0.0029	0.093	U	Y
Perfluorobutanoic acid (PFBA)	3.412	-0.02	2424	0.0032	0.10	U	Y
Perfluoropentanoic acid (PFPeA)	3.967	-0.01	97133	0.0002	0.0064	U	Y
Perfluorohexanoic acid (PFHxA)	4.212	-0.02	20529	-0.0056	0	U	Y
Perfluoroheptanoic acid (PFHpA)	4.384	-0.03	15327	-0.0030	0	U	Y
Perfluorooctanoic acid (PFOA)	4.571	-0.01	26045	-0.0016	0	U	Y
Perfluorononanoic acid (PFNA)	4.724	-0.04	2230	-0.0226	0	U	Y
Perfluorodecanoic acid (PFDA)	4.918	-0.02	4572	-0.0050	0	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.101	-0.02	10357	-0.0039	0	U	Y
Perfluorododecanoic acid (PFDoDA)	5.273	-0.02	2028	0.0289	0.92	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.452	-0.01	4651	0.0019	0.061	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.602	-0.01	46678	0.0025	0.080	U	Y
Perfluorooctane sulfonamide (FOSA)	5.221	-0.01	5794	0.0110	0.35	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.556	-0.01	740	0.0068	0.22	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.943	+0.01	20	0.0004	0.013	U	Y

Prep Amount:	250 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

Printed at 9/19/2019 3:30:48 PM

190917_226

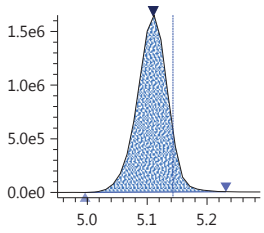
Sample ID: KQ1913122-06
Date acquired: 9/19/2019 6:34:54 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_226.lcd
Vial: 20 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.110	5901170	5901170	1	5.0000	ng/mL	----
PFBS_1	M	4.024	373	1417213	2	0.0013	ng/mL	----
PFBS-13C	Auto	4.021	1420019	5901170	1	5.1772	ng/mL	----
PFBS-13C_IS	Auto	4.021	1417213	1417213	2	5.0000	ng/mL	----
PFHxS_1	M	4.392	6422	748781	3	0.0005	ng/mL	----
PFHxS-18O	Auto	4.391	748781	5901170	1	5.5157	ng/mL	----
PFHxS-18O_IS	Auto	4.391	748781	748781	3	5.0000	ng/mL	----
PFHpS_1	NI	----	----	748781	3	----	ng/mL	----
PFOS_1	Auto	4.712	2648	930362	4	0.0207	ng/mL	----
PFOS-13C	Auto	4.735	930362	5901170	1	4.7021	ng/mL	----
PFOS-13C_IS	Auto	4.735	930362	930362	4	5.0000	ng/mL	----
PFDS_1	M	5.122	369	930362	4	0.0029	ng/mL	----
PFBA	M	3.412	2424	4817421	5	0.0032	ng/mL	----
PFBA-13C	Auto	3.414	4817421	5901170	1	4.4995	ng/mL	----
PFBA-13C_IS	Auto	3.414	4817421	4817421	5	5.0000	ng/mL	----
PFPeA	Auto	3.967	97133	2383157	6	0.0002	ng/mL	----
PFPeA-13C	Auto	3.968	2383157	5901170	1	4.3813	ng/mL	----
PFPeA-13C_IS	Auto	3.968	2383157	2383157	6	5.0000	ng/mL	----
PFHxA	M	4.212	20529	6960950	7	-0.0056	ng/mL	----
PFHxA-13C	Auto	4.214	6960950	5901170	1	5.3092	ng/mL	----
PFHxA-13C_IS	Auto	4.214	6960950	6960950	7	5.0000	ng/mL	----
PFHpA	Auto	4.384	15327	5068036	8	-0.0030	ng/mL	----
PFHpA-13C	Auto	4.391	5068036	5901170	1	5.7152	ng/mL	----
PFHpA-13C_IS	Auto	4.391	5068036	5068036	8	5.0000	ng/mL	----
PFOA	Auto	4.571	26045	7017510	9	-0.0016	ng/mL	----
PFOA-13C	Auto	4.572	7017510	5901170	1	4.9122	ng/mL	----
PFOA-13C_IS	Auto	4.572	7017510	7017510	9	5.0000	ng/mL	----
PFNA	M	4.724	2230	5234767	10	-0.0226	ng/mL	----
PFNA-13C	Auto	4.748	5234767	5901170	1	5.2031	ng/mL	----
PFNA-13C_IS	Auto	4.748	5234767	5234767	10	5.0000	ng/mL	----
PFDA	M	4.918	4572	3976558	11	-0.0050	ng/mL	----
PFDA-13C	Auto	4.927	3976558	5901170	1	4.7781	ng/mL	----
PFDA-13C_IS	Auto	4.927	3976558	3976558	11	5.0000	ng/mL	----
PFUnA	Auto	5.101	10357	4391593	12	-0.0039	ng/mL	----
PFUnA-13C	Auto	5.111	4391593	5901170	1	4.6949	ng/mL	----
PFUnA-13C_IS	Auto	5.111	4391593	4391593	12	5.0000	ng/mL	----
PFDoA	Auto	5.273	2028	4383233	13	0.0289	ng/mL	----
PFDoA-13C	Auto	5.285	4383233	5901170	1	3.8613	ng/mL	----
PFDoA-13C_IS	Auto	5.285	4383233	4383233	13	5.0000	ng/mL	----
PFTrDA	M	5.452	4651	3858698	14	0.0019	ng/mL	----
PFTeDA	Auto	5.602	46678	3858698	14	0.0025	ng/mL	----
PFTeDA-13C	Auto	5.602	3858698	5901170	1	4.2824	ng/mL	----
PFTeDA-13C_IS	Auto	5.602	3858698	3858698	14	5.0000	ng/mL	----
FOSA	M	5.221	5794	2141281	16	0.0110	ng/mL	----
FOSA-13C	Auto	5.226	2141281	5901170	1	4.3555	ng/mL	----
FOSA-13C_IS	Auto	5.226	2141281	2141281	16	5.0000	ng/mL	----
N-MeFOSAA	ND(W/B)	----	----	383684	21	----	ng/mL	----
N-MeFOSAA-d3	Auto	5.028	383684	5901170	1	4.1774	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.028	383684	383684	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	411907	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.125	411907	5901170	1	4.9116	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.125	411907	411907	22	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.556	740	515855	24	0.0068	ng/mL	----
6_2-FTS-13C	Auto	4.558	515855	5901170	1	5.8720	ng/mL	----
6_2-FTS-13C_IS	Auto	4.558	515855	515855	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.943	20	360978	25	0.0004	ng/mL	----
8_2-FTS-13C	Auto	4.924	360978	5901170	1	6.2897	ng/mL	----
8_2-FTS-13C_IS	Auto	4.924	360978	360978	25	5.0000	ng/mL	----

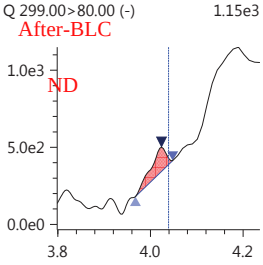
Insight Report

Printed at 9/19/2019 3:30:48 PM

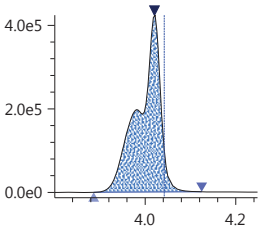
13C7-PFUnDA_IS
Conc 5.0000
RT 5.110 Area 5901170
ISTD 570.00>525.00 (-) 1.65e6



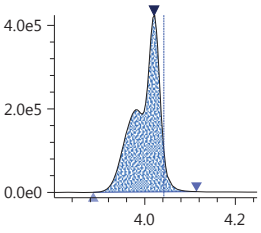
PFBS_1
Conc 0.0013
RT 4.024 Area 373
Q 299.00>80.00 (-) 1.15e3



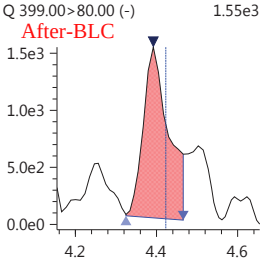
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Conc 5.1772
RT 4.021 Area 1420019
Q 301.80>80.00 (-) 4.24e5



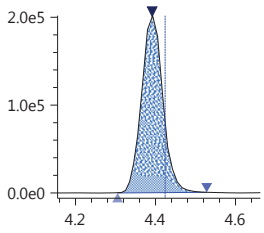
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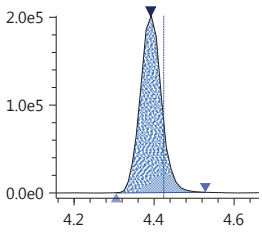
PFHxS_1
Conc 0.0005
RT 4.392 Area 6422
Q 399.00>80.00 (-) 1.55e3



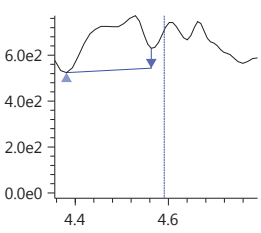
PFHxS-18O
Conc 5.5157
RT 4.391 Area 748781
Q 402.70>84.05 (-) 2.02e5



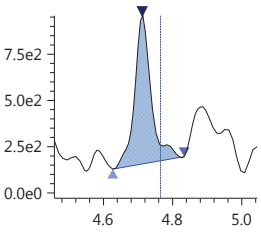
PFHxS-18O_IS
Conc 5.0000
RT 4.391 Area 748781
ISTD 402.70>84.05 (-) 2.02e5



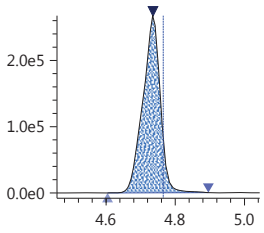
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RT ---- Area ----
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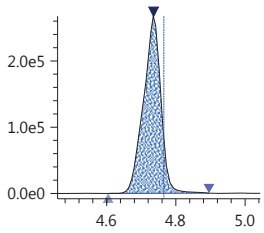
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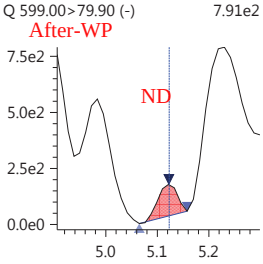
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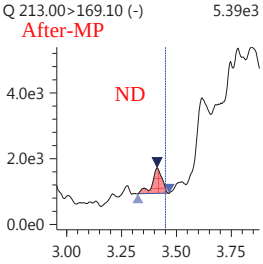
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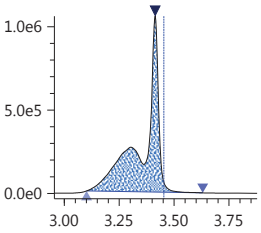
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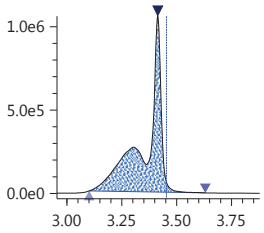
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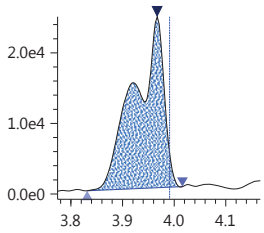
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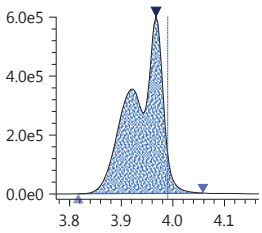
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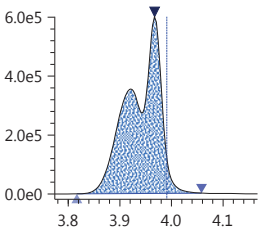
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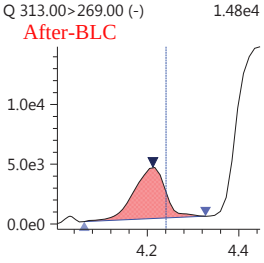
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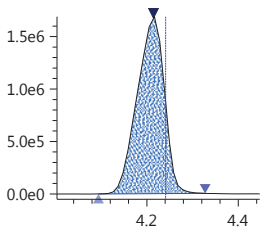
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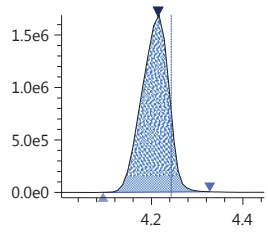
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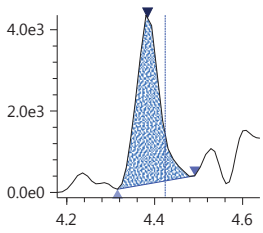
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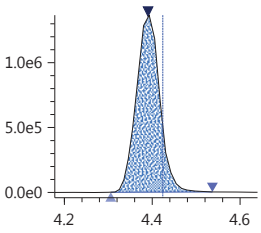
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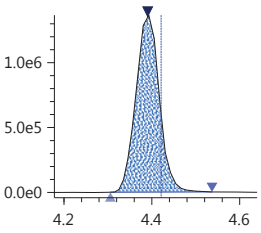
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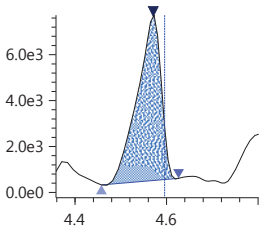
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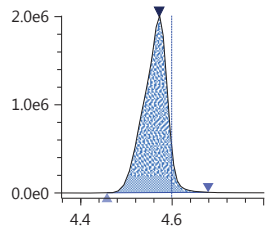
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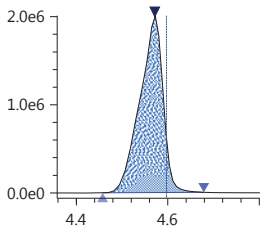
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Q 413.00>369.00 (-) 7.72e3



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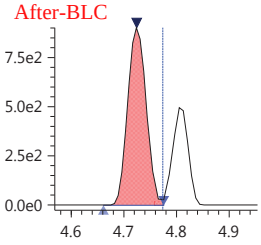


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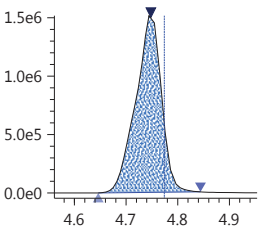


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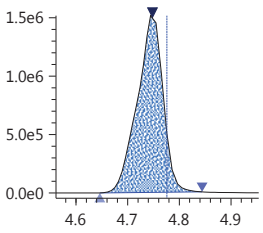
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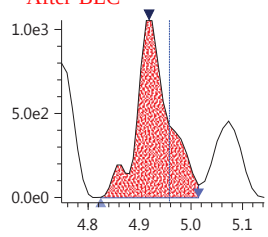


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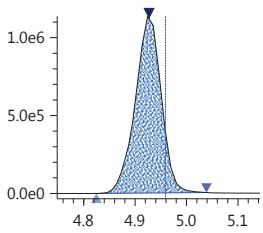


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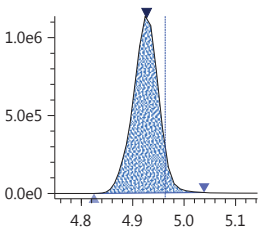
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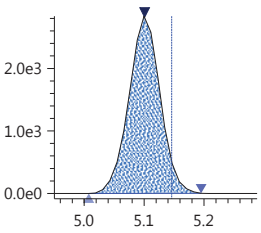
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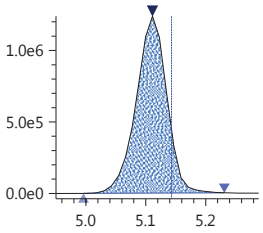
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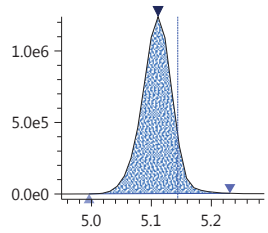
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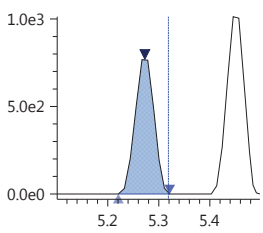
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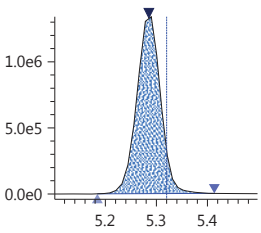
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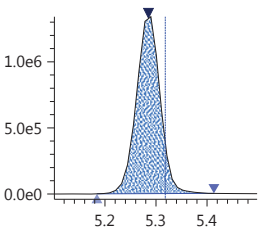
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Conc 0.0289
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Q 613.05>569.00 (-) 1.01e3



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Q 614.80>569.95 (-) 1.34e6

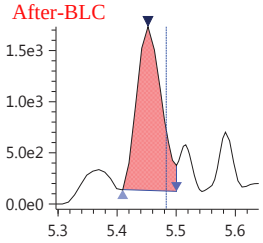


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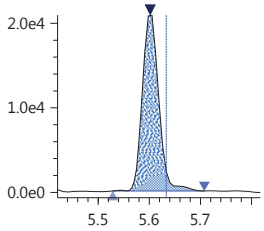
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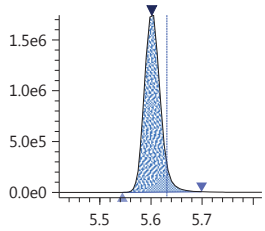
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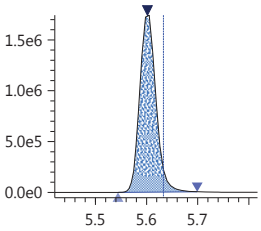
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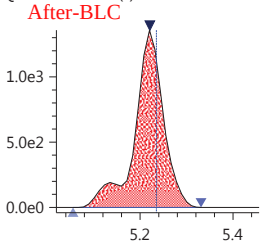
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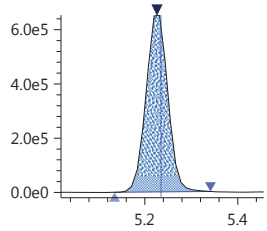
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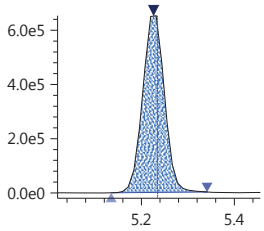
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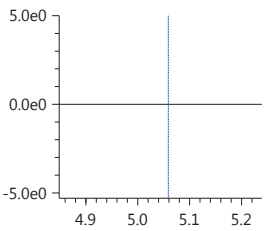
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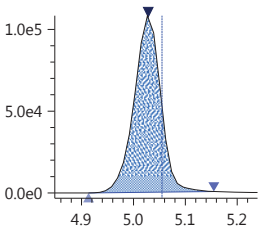
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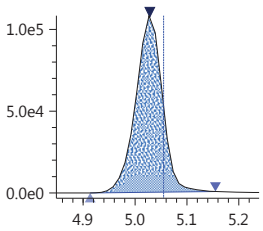
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Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



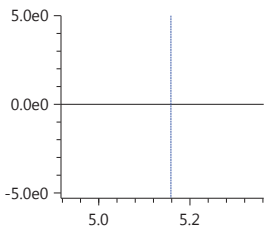
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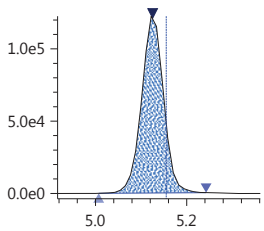
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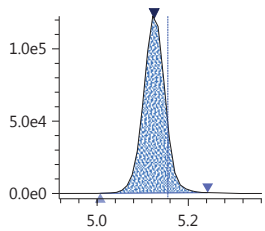
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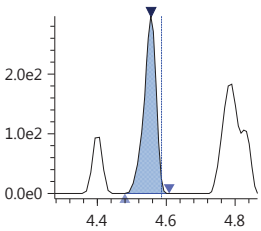
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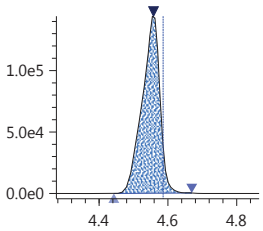
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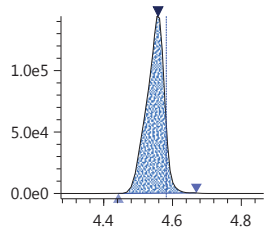
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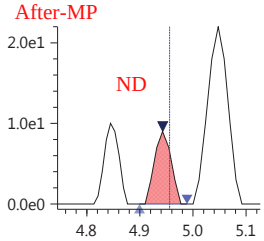
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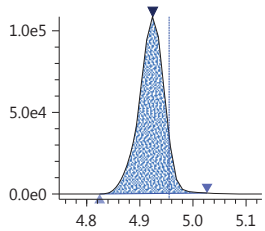
6_2-FTS-13C_IS
Conc 5.0000
RT 4.558 Area 515855
ISTD 428.90>409.00 (-) 1.44e5



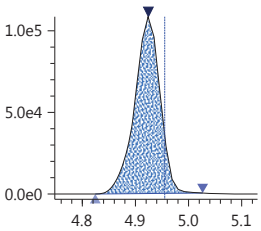
8_2-FTS_1
Conc 0.0004
RT 4.943 Area 20
Q 527.10>506.90 (-) 2.20e1



8_2-FTS-13C
Conc 6.2897
RT 4.924 Area 360978
Q 528.80>509.00 (-) 1.09e5



8_2-FTS-13C_IS
Conc 5.0000
RT 4.924 Area 360978
ISTD 528.80>509.00 (-) 1.09e5



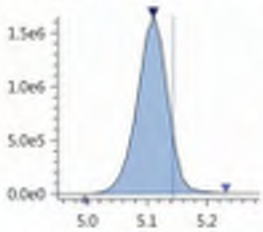
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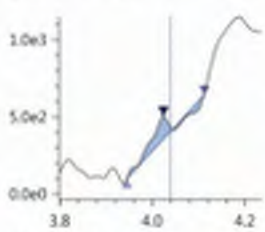
190917_226

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Date acquired: 9/19/2019 6:34:54 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_226.lcd
Vial: 20 | Inj. Volume: 15.0000uL | Tray: 3

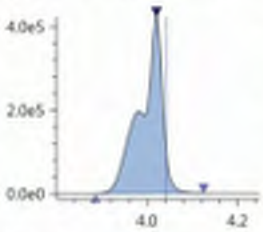
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Conc 5.0000
RT 5.110 Area 5901170
ISTD 570.00>525.00 (-) 1.65e6



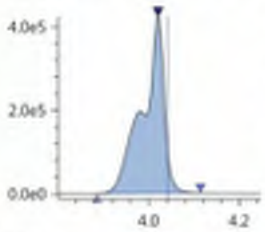
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Q 299.00>80.00 (-) 1.15e3



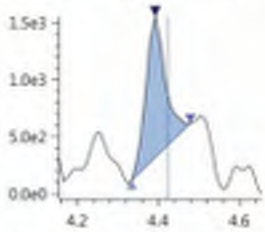
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Conc 5.1772
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Q 301.80>80.00 (-) 4.24e5



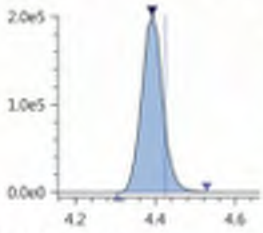
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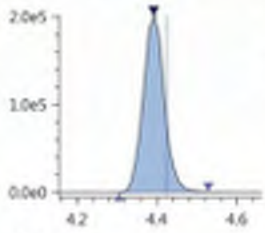
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Q 399.00>80.00 (-) 1.55e3



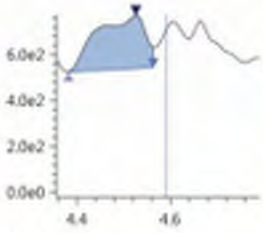
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Conc 5.5157
RT 4.391 Area 748781
Q 402.70>84.05 (-) 2.02e5



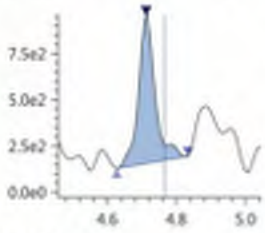
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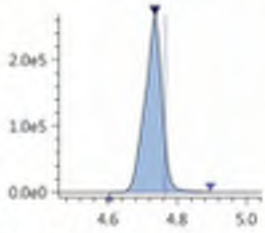
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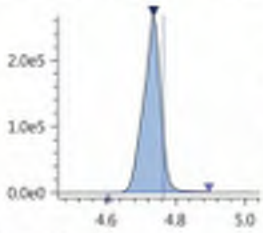
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RT 4.712 Area 2648
Q 499.00>80.00 (-) 9.58e2



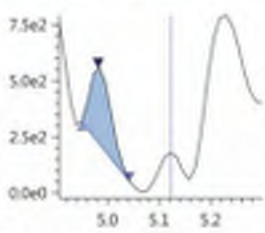
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RT 4.735 Area 930362
Q 502.80>80.05 (-) 2.68e5



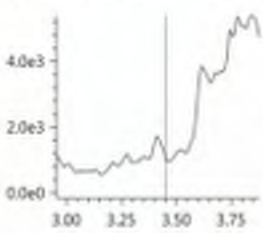
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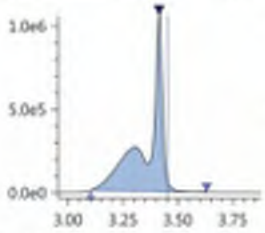
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RT 4.982 Area 951
Q 599.00>79.90 (-) 7.91e2



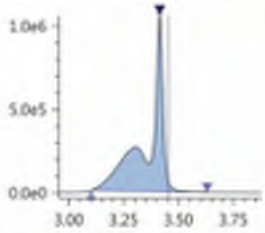
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Conc ----
RT ---- Area ----
Q 213.00>169.10 (-) 5.39e3



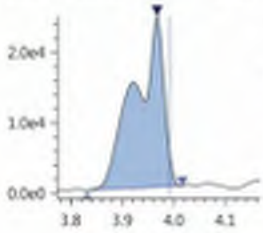
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Q 216.90>172.15 (-) 1.06e6



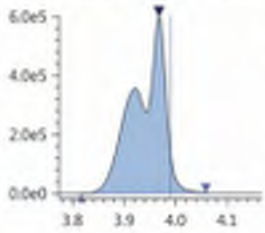
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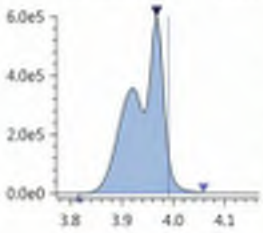
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RT 3.967 Area 97133
Q 263.05>219.10 (-) 2.51e4



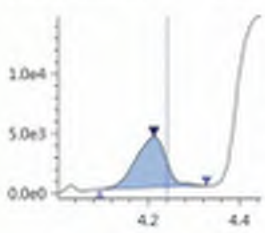
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Q 267.90>223.00 (-) 6.02e5



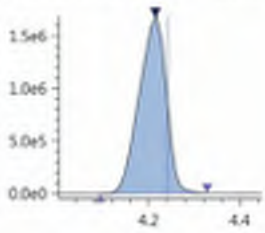
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ISTD 267.90>223.00 (-) 6.02e5



PFHxA
Conc -0.0062
RT 4.212 Area 19775
Q 313.00>269.00 (-) 1.48e4



PFHxA-13C
Conc 5.3092
RT 4.214 Area 6960950
Q 314.90>270.10 (-) 1.69e6

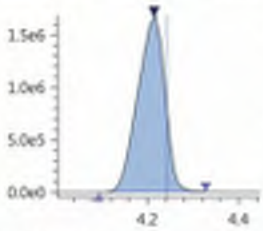


Manual Integration - Before

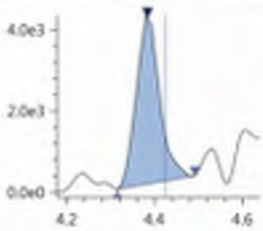
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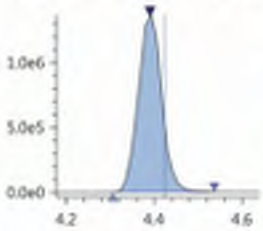
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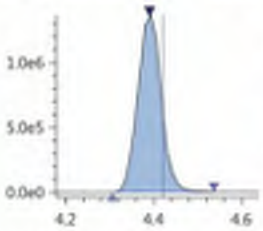
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RT 4.384 Area 15327
Q 362.90>319.00 (-) 4.36e3



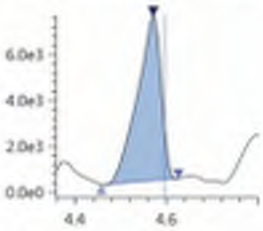
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Q 366.90>322.10 (-) 1.37e6



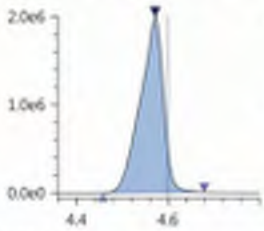
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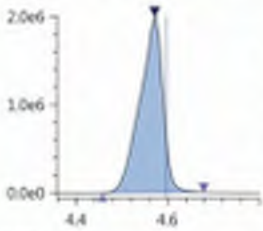
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RT 4.571 Area 26045
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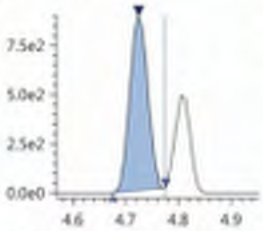
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RT 4.572 Area 7017510
Q 416.80>372.05 (-) 2.01e6



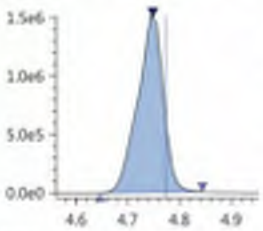
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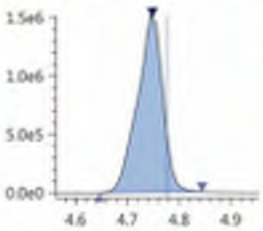
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Q 463.00>418.90 (-) 9.02e2



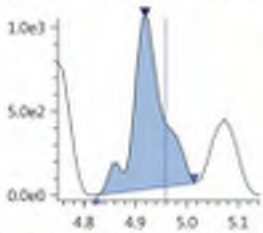
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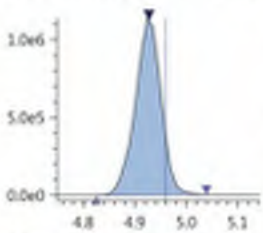
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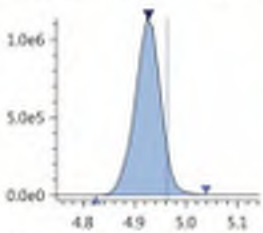
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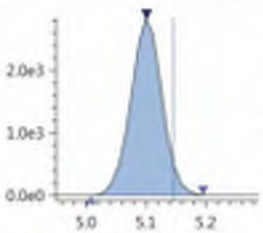
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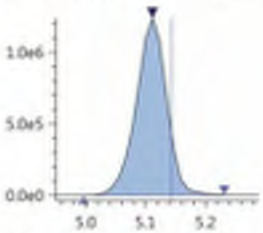
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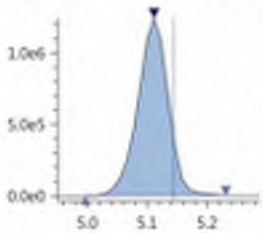
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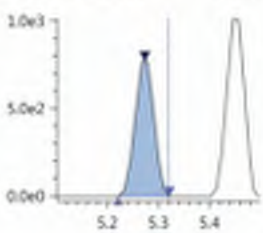
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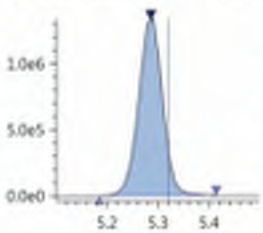
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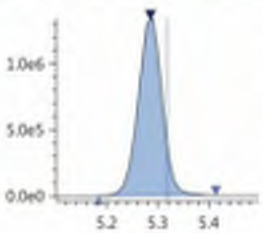
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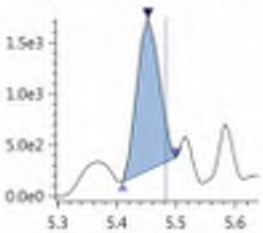
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RT 5.285 Area 4383233
Q 614.80>569.95 (-) 1.34e6



PFDoA-13C_IS
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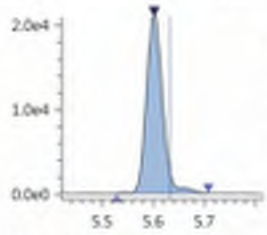
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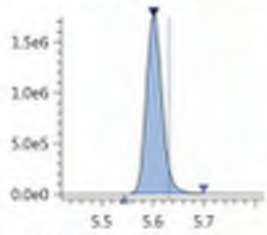
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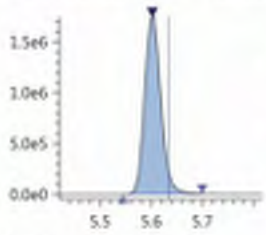
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Conc 0.0025
RT 5.602 Area 46678
Q 713.40>669.00 (-) 2.10e4



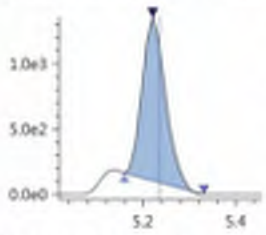
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Q 714.70>669.90 (-) 1.74e6



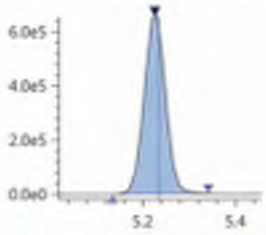
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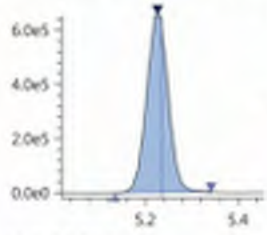
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Conc 0.0082
RT 5.221 Area 4352
Q 498.20>78.00 (-) 1.36e3



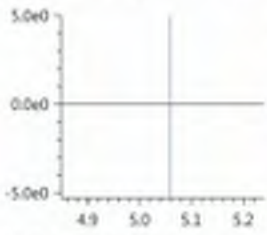
FOSA-13C
Conc 4.3555
RT 5.226 Area 2141281
Q 506.00>78.05 (-) 6.54e5



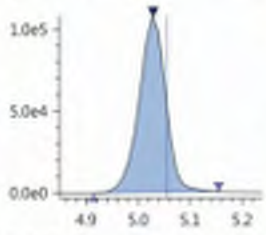
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Conc 5.0000
RT 5.226 Area 2141281
ISTD 506.00>78.05 (-) 6.54e5



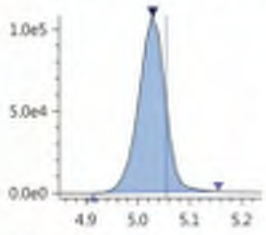
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



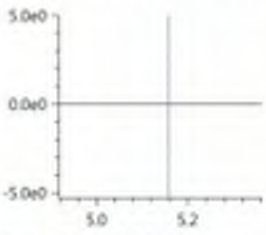
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Conc 4.1774
RT 5.028 Area 383684
Q 572.80>419.05 (-) 1.08e5



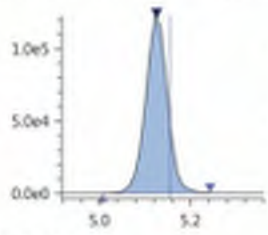
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Conc 5.0000
RT 5.028 Area 383684
ISTD 572.80>419.05 (-) 1.08e5



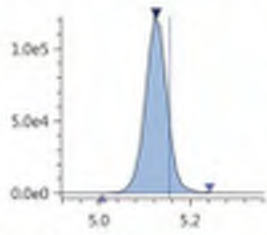
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



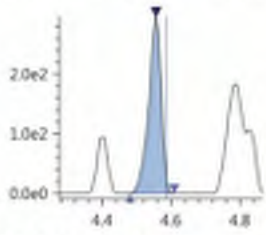
N-EtFOSAA-d5
Conc 4.9116
RT 5.125 Area 411907
Q 588.80>419.00 (-) 1.23e5



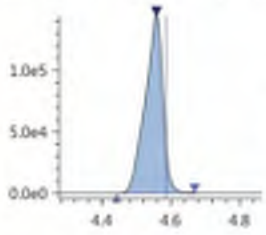
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Conc 5.0000
RT 5.125 Area 411907
ISTD 588.80>419.00 (-) 1.23e5



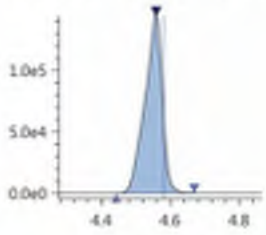
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Conc 0.0068
RT 4.556 Area 740
Q 427.00>407.00 (-) 2.97e2



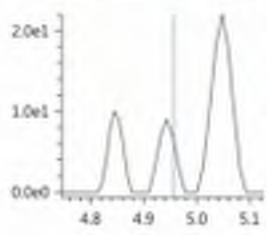
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Conc 5.8720
RT 4.558 Area 515855
Q 428.90>409.00 (-) 1.44e5



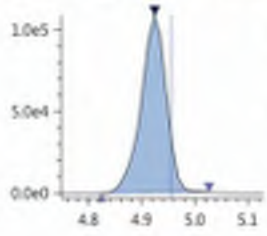
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Conc 5.0000
RT 4.558 Area 515855
ISTD 428.90>409.00 (-) 1.44e5



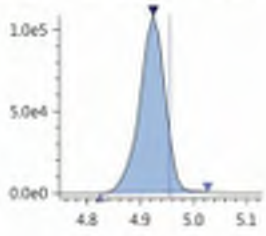
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Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 2.20e1



8_2-FTS-13C
Conc 6.2897
RT 4.924 Area 360978
Q 528.80>509.00 (-) 1.09e5



8_2-FTS-13C_IS
Conc 5.0000
RT 4.924 Area 360978
ISTD 528.80>509.00 (-) 1.09e5



Manual Integration - Before

1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_227
Lab ID: KQ1913122-05
RunType: LCS
Matrix: Water

Date Acquired: 9/19/19 06:45
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	High bias, samples ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	High bias, samples ND
	13C3-PFBS	139	70	130	Narrate native ok
	13C4-PFHpA	136	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	High bias, samples ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_227	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:45	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1913122-05	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/11/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	KQ1913122
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.115	-0.01	6875846	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.026	-0.01	1336064	4.1806	84	20 - 109	Y
18O2-PFHxS	4.404	-0.01	883213	5.5837	112	26 - 122	Y
13C4-PFOS	4.741	-0.01	921640	3.9977	80	25 - 121	Y
13C4-PFBA	3.420	-0.01	4822613	3.8658	77	27 - 124	Y
13C5-PFPeA	3.973	0.00	2301909	3.6321	73	27 - 138	Y
13C2-PFHxA	4.215	-0.02	5654402	3.7013	74	28 - 132	Y
13C4-PFHpA	4.403	-0.01	5657463	5.4755	110	19 - 139	Y
13C4-PFOA	4.576	-0.01	6455840	3.8784	78	22 - 130	Y
13C5-PFNA	4.751	-0.01	4487556	3.8281	77	20 - 127	Y
13C2-PFDA	4.934	-0.01	3821366	3.9408	79	24 - 125	Y
13C2-PFUnDA	5.114	-0.01	4595977	4.2169	84	22 - 125	Y
13C2-PFDoDA	5.289	-0.01	4128077	3.1211	62	19 - 122	Y
13C2-PFTeDA	5.606	-0.01	3979135	3.7901	76	13 - 124	Y
13C8-FOSA	5.230	0.00	1916258	3.3452	67	18 - 109	Y
D3-MeFOSAA	5.033	0.00	384347	3.5915	72	9 - 123	Y
D5-EtFOSAA	5.128	-0.01	382336	3.9128	78	12 - 126	Y
13C2-6:2 FTS	4.565	-0.01	531057	5.1881	104	10 - 226	Y
13C2-8:2 FTS	4.929	-0.01	319272	4.7745	95	10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.024	-0.01	294604	1.0875	34.8		Y
Perfluorohexane sulfonic acid (PFHxS)	4.402	-0.01	233725	1.0857	34.7		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_227	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:45	**Vial:**	4
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ1913122-05	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	4.571	-0.01	267817	0.9842	31.5		Y
Perfluorooctane sulfonic acid (PFOS)	4.741	-0.01	147691	1.1679	37.4		Y
Perfluorodecane sulfonic acid (PFDS)	5.095	-0.01	148850	1.1758	37.6		Y
Perfluorobutanoic acid (PFBA)	3.421	-0.01	986156	1.3114	42.0		Y
Perfluoropentanoic acid (PFPeA)	3.973	0.00	1029178	1.1534	36.9		Y
Perfluorohexanoic acid (PFHxA)	4.216	-0.01	1217203	1.1056	35.4		Y
Perfluoroheptanoic acid (PFHpA)	4.403	-0.01	1173129	1.0466	33.5		Y
Perfluorooctanoic acid (PFOA)	4.576	-0.01	1402143	1.2992	41.6		Y
Perfluorononanoic acid (PFNA)	4.750	-0.01	950195	1.2796	40.9		Y
Perfluorodecanoic acid (PFDA)	4.933	-0.01	760621	1.2655	40.5		Y
Perfluoroundecanoic acid (PFUnDA)	5.115	-0.01	771341	1.2687	40.6		Y
Perfluorododecanoic acid (PFDoDA)	5.289	-0.01	571542	1.3632	43.6		Y
Perfluorotridecanoic acid (PFTrDA)	5.455	-0.01	762801	0.9839	31.5		Y
Perfluorotetradecanoic acid (PFTeDA)	5.606	-0.01	406310	1.1247	36.0		Y
Perfluorooctane sulfonamide (FOSA)	5.231	0.00	494447	1.0442	33.4		Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.033	-0.01	60900	1.2075	38.6		Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.130	-0.01	34319	0.9571	30.6		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.565	-0.01	113318	1.0117	32.4		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.926	-0.01	48445	1.0773	34.5		Y

Prep Amount:	250 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

Printed at 9/19/2019 3:30:48 PM

190917_227

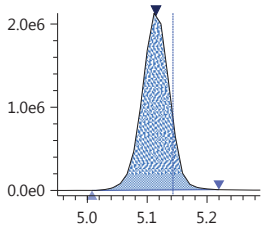
Sample ID: KQ1913122-05
Date acquired: 9/19/2019 6:45:22 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_227.lcd
Vial: 21 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.115	6875846	6875846	1	5.0000	ng/mL	----
PFBS_1	M	4.024	294604	1334724	2	1.0875	ng/mL	----
PFBS-13C	Auto	4.026	1336064	6875846	1	4.1806	ng/mL	----
PFBS-13C_IS	Auto	4.026	1334724	1334724	2	5.0000	ng/mL	----
PFHxS_1	Auto	4.402	233725	883213	3	1.0857	ng/mL	----
PFHxS-18O	Auto	4.404	883213	6875846	1	5.5837	ng/mL	----
PFHxS-18O_IS	Auto	4.404	883213	883213	3	5.0000	ng/mL	----
PFHpS_1	M	4.571	267817	883213	3	0.9842	ng/mL	----
PFOS_1	M	4.741	147691	921640	4	1.1679	ng/mL	----
PFOS-13C	Auto	4.741	921640	6875846	1	3.9977	ng/mL	----
PFOS-13C_IS	Auto	4.741	921640	921640	4	5.0000	ng/mL	----
PFDS_1	Auto	5.095	148850	921640	4	1.1758	ng/mL	----
PFBA	Auto	3.421	986156	4822613	5	1.3114	ng/mL	----
PFBA-13C	Auto	3.420	4822613	6875846	1	3.8658	ng/mL	----
PFBA-13C_IS	Auto	3.420	4822613	4822613	5	5.0000	ng/mL	----
PFPeA	Auto	3.973	1029178	2301909	6	1.1534	ng/mL	----
PFPeA-13C	Auto	3.973	2301909	6875846	1	3.6321	ng/mL	----
PFPeA-13C_IS	Auto	3.973	2301909	2301909	6	5.0000	ng/mL	----
PFHxA	M	4.216	1217203	5654402	7	1.1056	ng/mL	----
PFHxA-13C	Auto	4.215	5654402	6875846	1	3.7013	ng/mL	----
PFHxA-13C_IS	Auto	4.215	5654402	5654402	7	5.0000	ng/mL	----
PFHpA	Auto	4.403	1173129	5657463	8	1.0466	ng/mL	----
PFHpA-13C	Auto	4.403	5657463	6875846	1	5.4755	ng/mL	----
PFHpA-13C_IS	Auto	4.403	5657463	5657463	8	5.0000	ng/mL	----
PFOA	Auto	4.576	1402143	6455840	9	1.2992	ng/mL	----
PFOA-13C	Auto	4.576	6455840	6875846	1	3.8784	ng/mL	----
PFOA-13C_IS	Auto	4.576	6455840	6455840	9	5.0000	ng/mL	----
PFNA	Auto	4.750	950195	4487556	10	1.2796	ng/mL	----
PFNA-13C	Auto	4.751	4487556	6875846	1	3.8281	ng/mL	----
PFNA-13C_IS	Auto	4.751	4487556	4487556	10	5.0000	ng/mL	----
PFDA	Auto	4.933	760621	3821366	11	1.2655	ng/mL	----
PFDA-13C	Auto	4.934	3821366	6875846	1	3.9408	ng/mL	----
PFDA-13C_IS	Auto	4.934	3821366	3821366	11	5.0000	ng/mL	----
PFUnA	Auto	5.115	771341	4595977	12	1.2687	ng/mL	----
PFUnA-13C	Auto	5.114	4595977	6875846	1	4.2169	ng/mL	----
PFUnA-13C_IS	Auto	5.114	4595977	4595977	12	5.0000	ng/mL	----
PFDoA	M	5.289	571542	4128077	13	1.3632	ng/mL	----
PFDoA-13C	Auto	5.289	4128077	6875846	1	3.1211	ng/mL	----
PFDoA-13C_IS	Auto	5.289	4128077	4128077	13	5.0000	ng/mL	----
PFTrDA	Auto	5.455	762801	3979135	14	0.9839	ng/mL	----
PFTeDA	Auto	5.606	406310	3979135	14	1.1247	ng/mL	----
PFTeDA-13C	Auto	5.606	3979135	6875846	1	3.7901	ng/mL	----
PFTeDA-13C_IS	Auto	5.606	3979135	3979135	14	5.0000	ng/mL	----
FOSA	Auto	5.231	494447	1916258	16	1.0442	ng/mL	----
FOSA-13C	Auto	5.230	1916258	6875846	1	3.3452	ng/mL	----
FOSA-13C_IS	Auto	5.230	1916258	1916258	16	5.0000	ng/mL	----
N-MeFOSAA	Auto	5.033	60900	384347	21	1.2075	ng/mL	----
N-MeFOSAA-d3	Auto	5.033	384347	6875846	1	3.5915	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.033	384347	384347	21	5.0000	ng/mL	----
N-EtFOSAA	Auto	5.130	34319	382336	22	0.9571	ng/mL	----
N-EtFOSAA-d5	Auto	5.128	382336	6875846	1	3.9128	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.128	382336	382336	22	5.0000	ng/mL	----
6_2-FTS_1	M	4.565	113318	531057	24	1.0117	ng/mL	----
6_2-FTS-13C	Auto	4.565	531057	6875846	1	5.1881	ng/mL	----
6_2-FTS-13C_IS	Auto	4.565	531057	531057	24	5.0000	ng/mL	----
8_2-FTS_1	Auto	4.926	48445	319272	25	1.0773	ng/mL	----
8_2-FTS-13C	Auto	4.929	319272	6875846	1	4.7745	ng/mL	----
8_2-FTS-13C_IS	Auto	4.929	319272	319272	25	5.0000	ng/mL	----

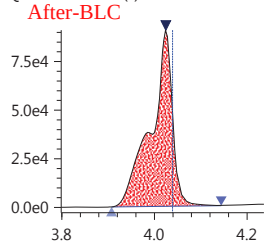
Insight Report

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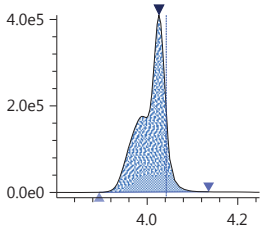
13C7-PFUnDA_IS
Conc 5.0000
RT 5.115 Area 6875846
ISTD 570.00>525.00 (-) 2.13e6



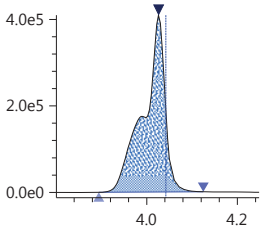
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Q 299.00>80.00 (-) 9.11e4



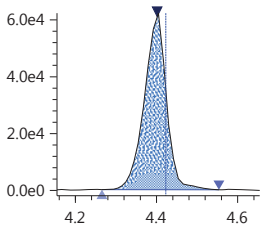
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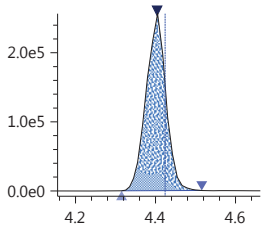
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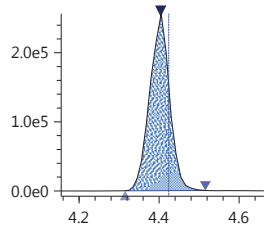
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Q 399.00>80.00 (-) 6.24e4



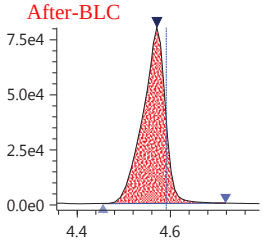
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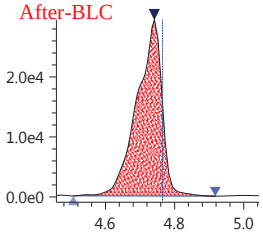
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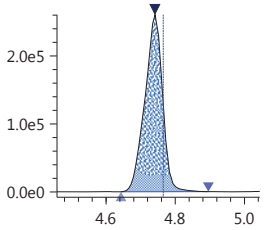
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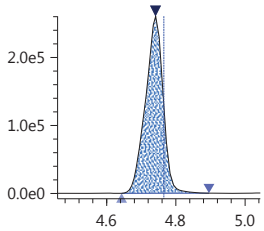
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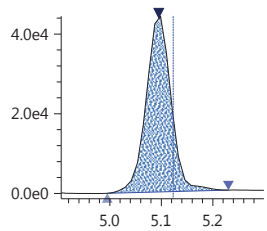
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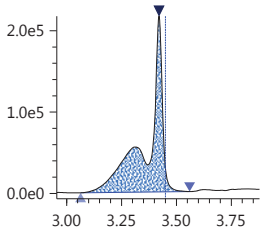
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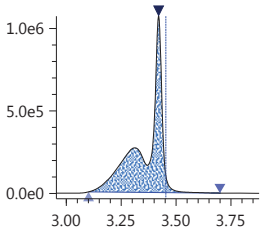
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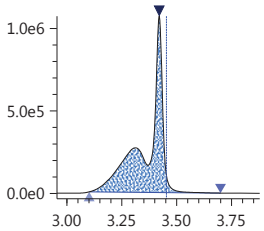
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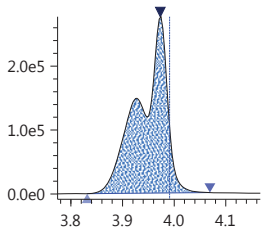
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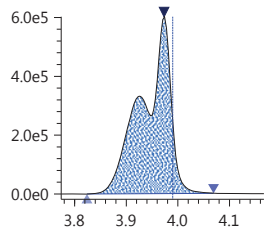
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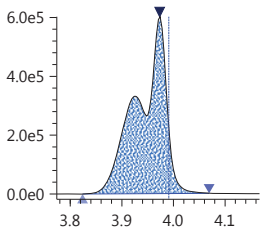
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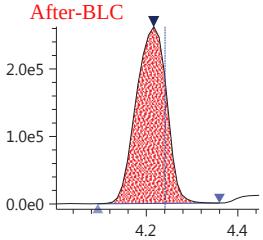
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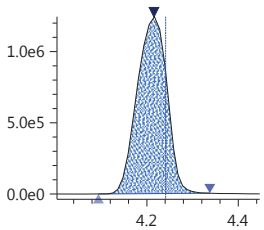
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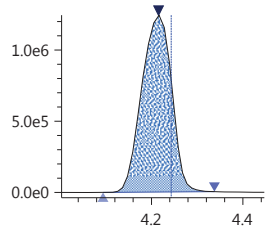


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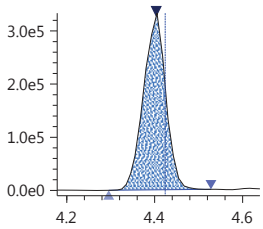


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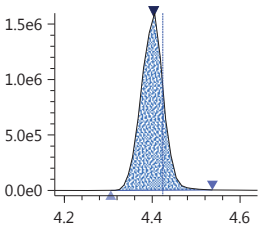
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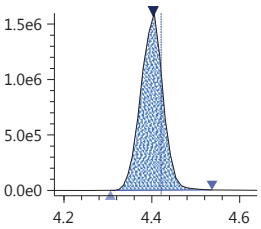
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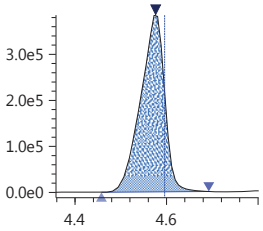
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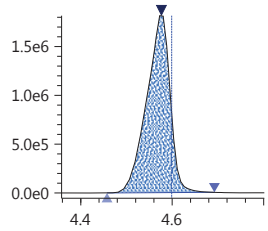
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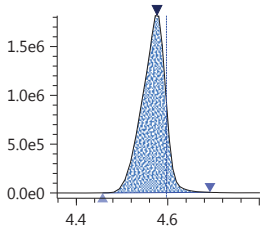
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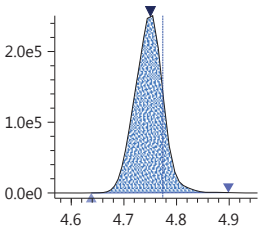
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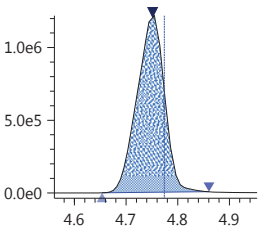
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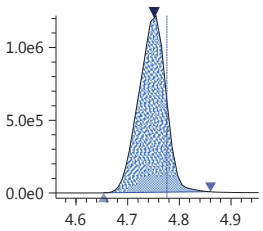
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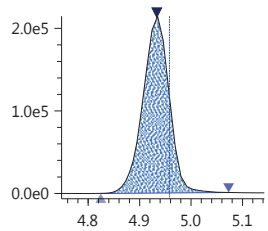
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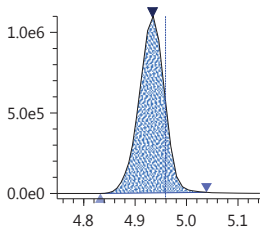
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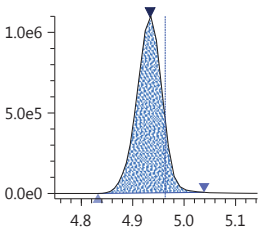
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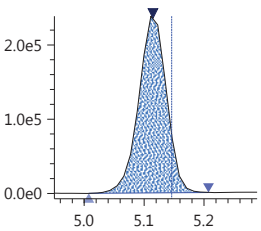
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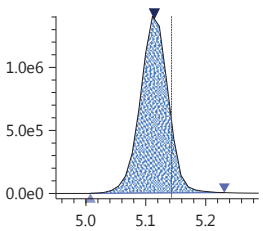
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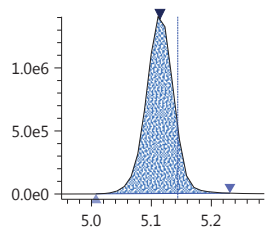
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Q 564.80>519.95 (-) 1.41e6

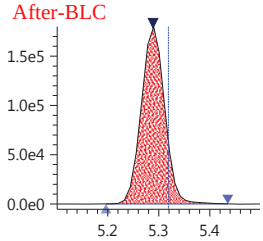


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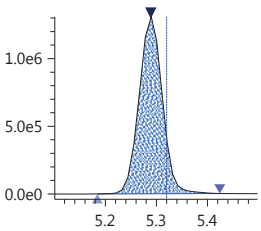


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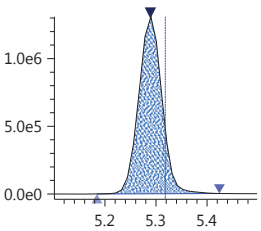
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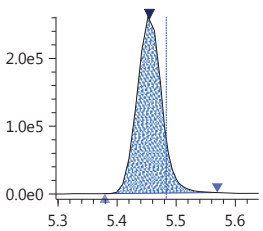
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Q 614.80>569.95 (-) 1.31e6



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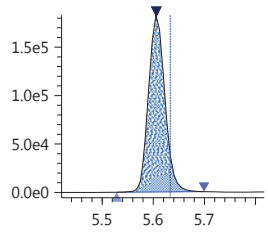
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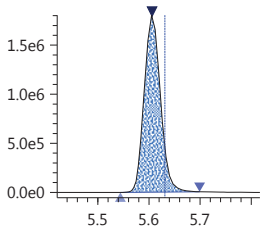
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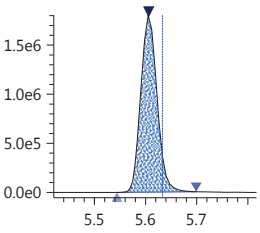
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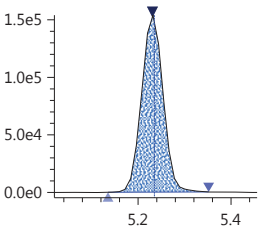
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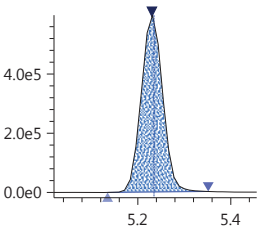
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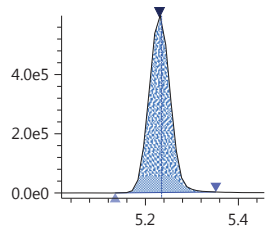
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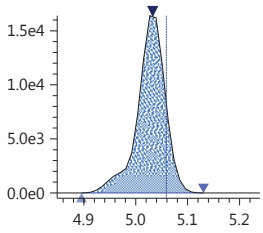
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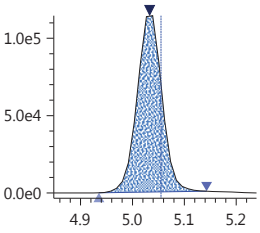
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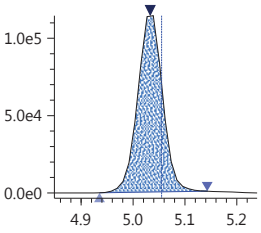
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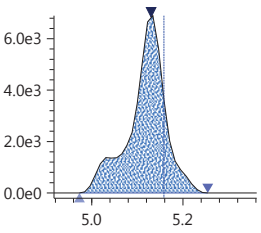
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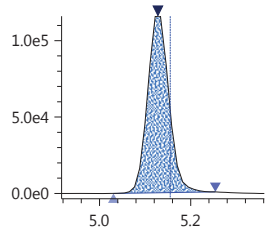
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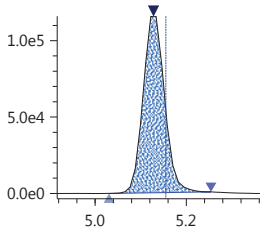
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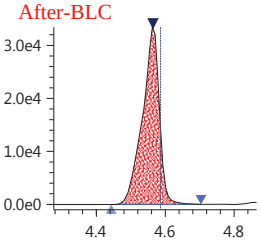
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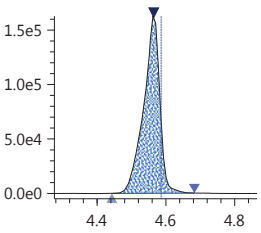
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RT 5.128 Area 382336
ISTD 588.80>419.00 (-) 1.16e5



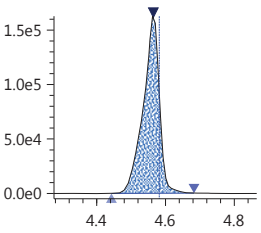
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RT 4.565 Area 113318
Q 427.00>407.00 (-) 3.34e4
After-BLC



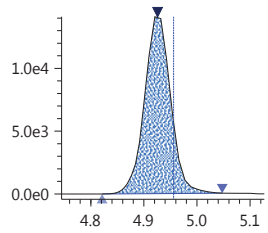
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Q 428.90>409.00 (-) 1.63e5



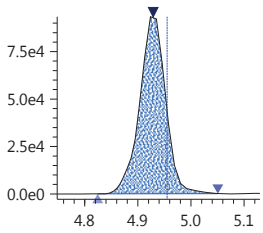
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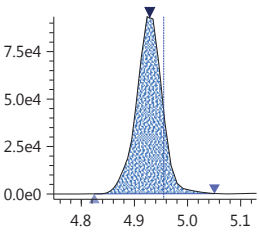
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Conc 1.0773
RT 4.926 Area 48445
Q 527.10>506.90 (-) 1.41e4



8_2-FTS-13C
Conc 4.7745
RT 4.929 Area 319272
Q 528.80>509.00 (-) 9.34e4



8_2-FTS-13C_IS
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ISTD 528.80>509.00 (-) 9.34e4



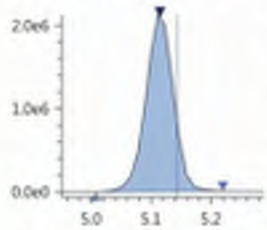
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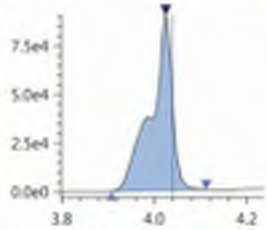
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Date acquired: 9/19/2019 6:45:22 AM
Acquired by: System Administrator
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Vial: 21 | Inj. Volume: 15.0000uL | Tray: 3

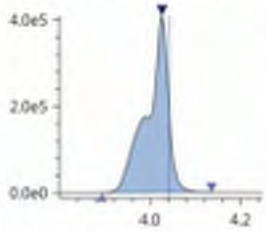
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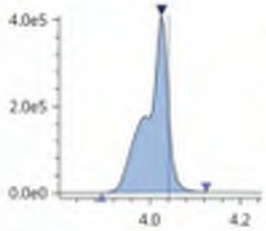
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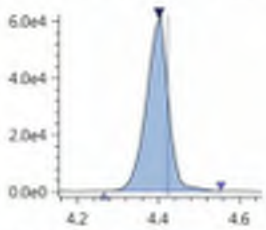
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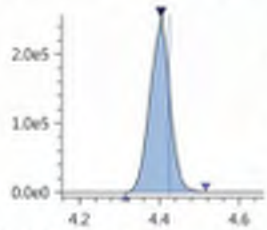
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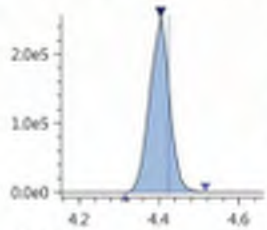
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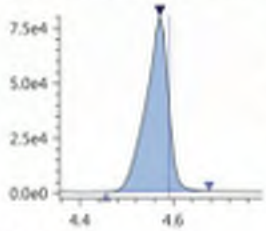
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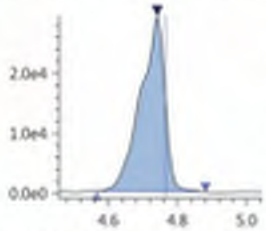
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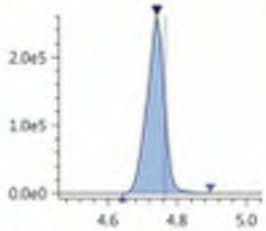
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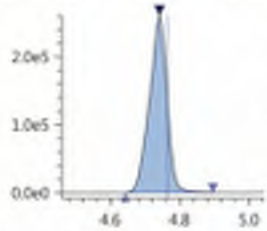
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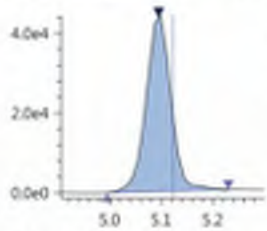
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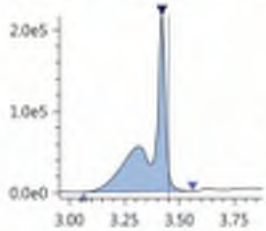
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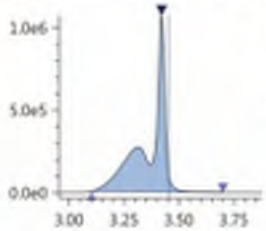
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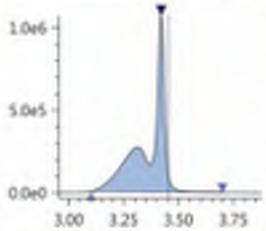
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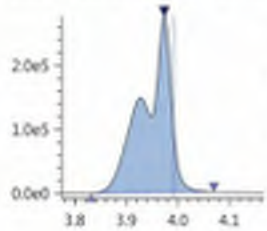
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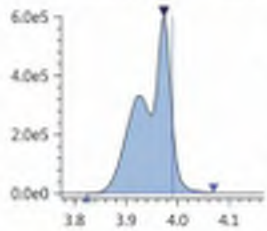
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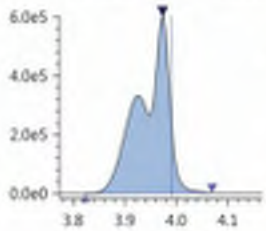
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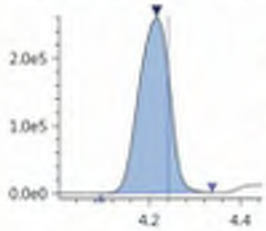
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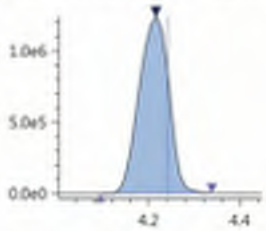
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ISTD 267.90>223.00 (-) 6.03e5



PFHxA
Conc 1.1017
RT 4.216 Area 1213070
Q 313.00>269.00 (-) 2.63e5



PFHxA-13C
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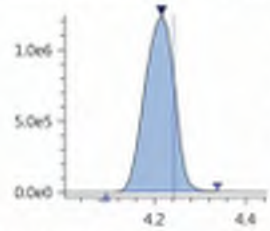


Manual Integration - Before

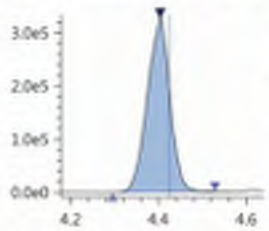
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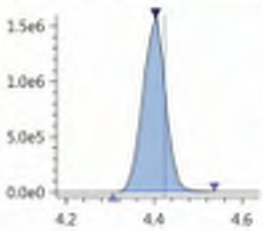
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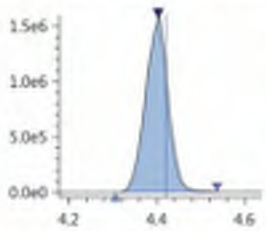
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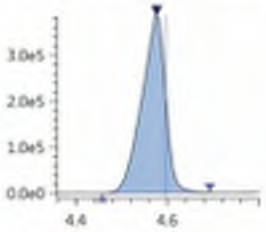
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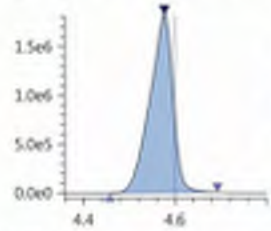
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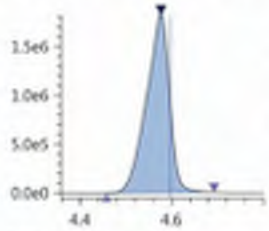
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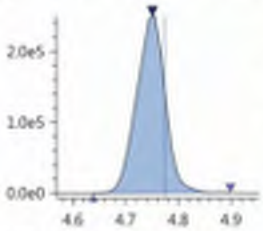
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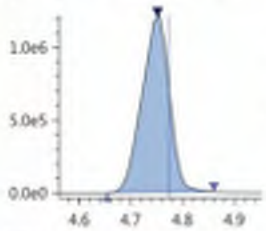
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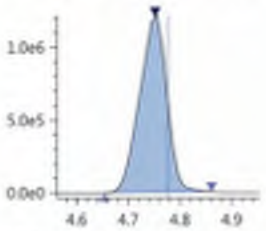
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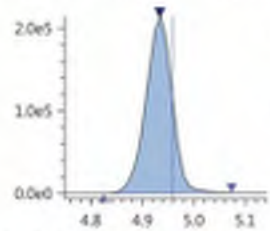
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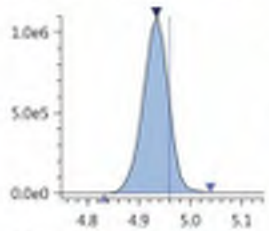
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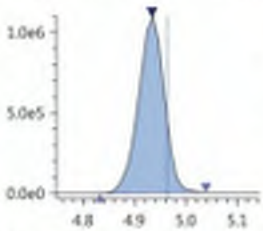
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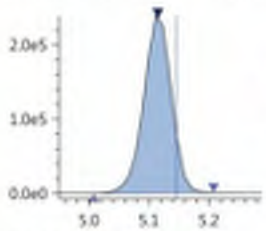
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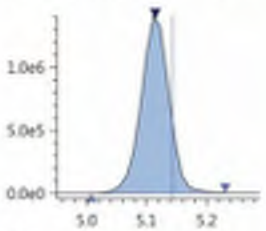
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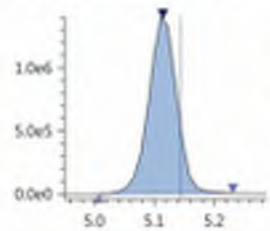
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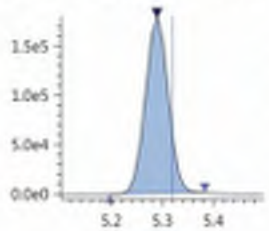
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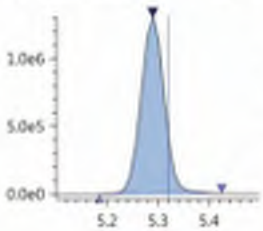
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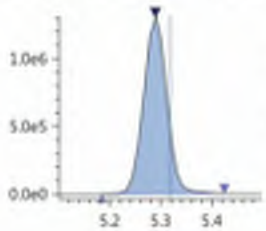
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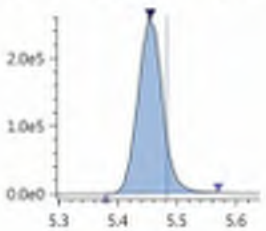
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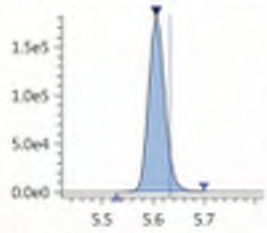
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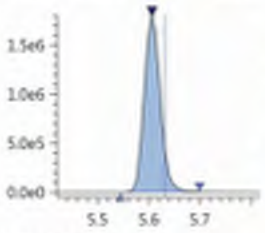
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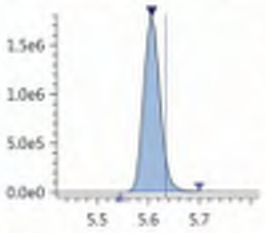
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Conc 1.1247
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Q 713.40>669.00 (-) 1.81e5



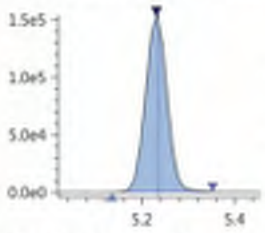
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Conc 3.7901
RT 5.606 Area 3979135
Q 714.70>669.90 (-) 1.81e6



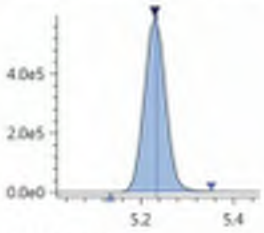
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ISTD 714.70>669.90 (-) 1.81e6



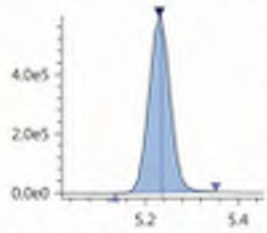
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Conc 1.0442
RT 5.231 Area 494447
Q 498.20>78.00 (-) 1.54e5



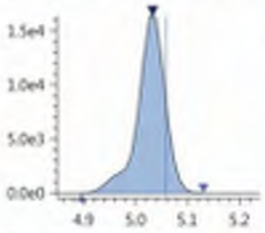
FOSA-13C
Conc 3.3452
RT 5.230 Area 1916258
Q 506.00>78.05 (-) 5.99e5



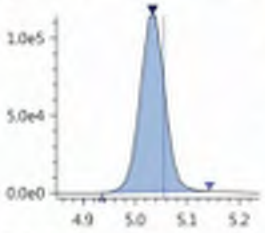
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Conc 5.0000
RT 5.230 Area 1916258
ISTD 506.00>78.05 (-) 5.99e5



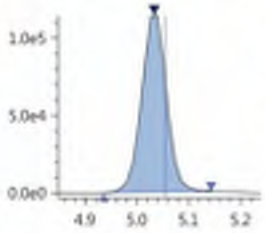
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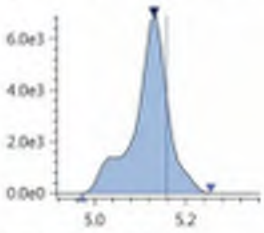
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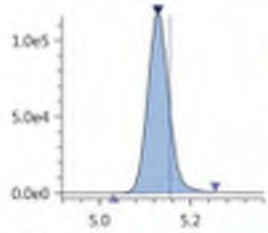
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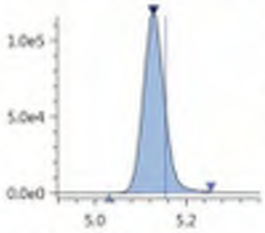
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RT 5.130 Area 34319
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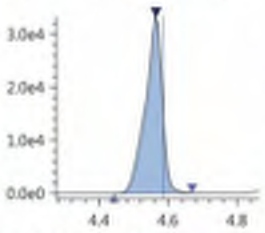
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Conc 3.9128
RT 5.128 Area 382336
Q 588.80>419.00 (-) 1.16e5



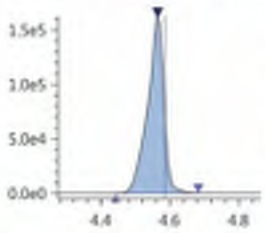
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Conc 5.0000
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ISTD 588.80>419.00 (-) 1.16e5



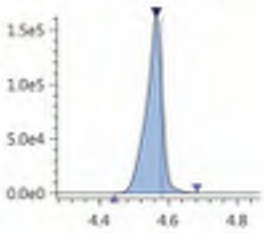
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Conc 1.0071
RT 4.565 Area 112801
Q 427.00>407.00 (-) 3.34e4



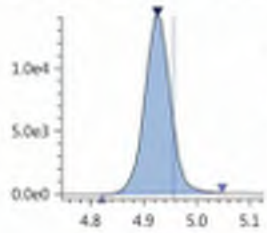
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Conc 5.1881
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Q 428.90>409.00 (-) 1.63e5



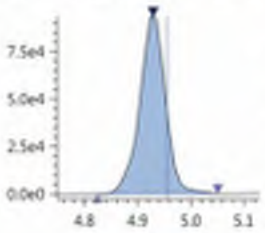
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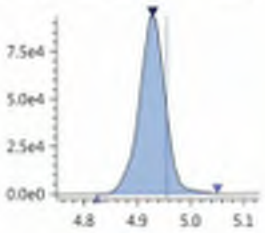
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Conc 1.0773
RT 4.926 Area 48445
Q 527.10>506.90 (-) 1.41e4



8_2-FTS-13C
Conc 4.7745
RT 4.929 Area 319272
Q 528.80>509.00 (-) 9.34e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.929 Area 319272
ISTD 528.80>509.00 (-) 9.34e4



1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_230
Lab ID: KQ1913122-01
RunType: MS
Matrix: Water

Date Acquired: 9/19/19 07:16
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	High bias, samples ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	High bias, samples ND
	13C3-PFBS	139	70	130	Narrate native ok
	13C4-PFHpA	136	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	High bias, samples ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_230	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:16	**Vial:**	7
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ1913122-01	**Raw Units:**	ng/mL

Bottle ID:	R1908707-002.02	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	KQ1913122
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.116	-0.01	5385511	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.012	-0.02	1271266	5.0787	102	20 - 109	Y
18O2-PFHxS	4.401	-0.01	625413	5.0480	101	26 - 122	Y
13C4-PFOS	4.740	-0.01	722490	4.0011	80	25 - 121	Y
13C4-PFBA	3.377	-0.05	3840178	3.9301	79	27 - 124	Y
13C5-PFPeA	3.960	-0.02	1641825	3.3074	66	27 - 138	Y
13C2-PFHxA	4.218	-0.01	3513747	2.9366	59	28 - 132	Y
13C4-PFHpA	4.401	-0.01	4349839	5.3750	108	19 - 139	Y
13C4-PFOA	4.575	-0.01	5529263	4.2410	85	22 - 130	Y
13C5-PFNA	4.753	-0.01	3854442	4.1979	84	20 - 127	Y
13C2-PFDA	4.933	-0.01	3634306	4.7850	96	24 - 125	Y
13C2-PFUnDA	5.116	-0.01	3772406	4.4191	88	22 - 125	Y
13C2-PFDoDA	5.291	-0.01	3442794	3.3233	66	19 - 122	Y
13C2-PFTeDA	5.606	-0.01	2387913	2.9039	58	13 - 124	Y
13C8-FOSA	5.232		741455	1.6526	33	18 - 109	Y
D3-MeFOSAA	5.033	0.00	228601	2.7272	55	9 - 123	Y
D5-EtFOSAA	5.132	0.00	299083	3.9078	78	12 - 126	Y
13C2-6:2 FTS	4.562	-0.01	552250	6.8881	138	10 - 226	Y
13C2-8:2 FTS	4.930	-0.01	389913	7.4444	149	10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.010	-0.02	286921	1.1152	29.7		Y
Perfluorohexane sulfonic acid (PFHxS)	4.398	-0.01	190102	1.2524	33.4		Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_230	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:16	**Vial:**	7
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ1913122-01	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	4.568	-0.01	216871	1.1255	30.0		Y
Perfluorooctane sulfonic acid (PFOS)	4.740	-0.01	145857	1.4713	39.2		Y
Perfluorodecane sulfonic acid (PFDS)	5.096	-0.01	104681	1.0549	28.1		Y
Perfluorobutanoic acid (PFBA)	3.378	-0.05	376808	0.6293	16.8		Y
Perfluoropentanoic acid (PFPeA)	3.960	-0.02	775680	1.2253	32.7		Y
Perfluorohexanoic acid (PFHxA)	4.217	-0.01	796497	1.1653	31.1		Y
Perfluoroheptanoic acid (PFHpA)	4.401	-0.01	905556	1.0508	28.0		Y
Perfluorooctanoic acid (PFOA)	4.575	-0.01	2666494	2.9144	77.7		Y
Perfluorononanoic acid (PFNA)	4.753	-0.01	776611	1.2164	32.4		Y
Perfluorodecanoic acid (PFDA)	4.934	-0.01	683494	1.1950	31.9		Y
Perfluoroundecanoic acid (PFUnDA)	5.116	-0.01	650854	1.3048	34.8		Y
Perfluorododecanoic acid (PFDoDA)	5.290	-0.01	437915	1.2544	33.5		Y
Perfluorotridecanoic acid (PFTrDA)	5.455	-0.01	448242	0.9633	25.7		Y
Perfluorotetradecanoic acid (PFTeDA)	5.606	-0.01	270933	1.2662	33.8		Y
Perfluorooctane sulfonamide (FOSA)	5.231	0.00	202465	1.1050	29.5		Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.034	-0.01	57439	1.9148	51.1		Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.133	0.00	35594	1.2690	33.8		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.561	-0.01	122876	1.0550	28.1		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.928	-0.01	62394	1.1361	30.3		Y

Prep Amount:	300.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

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190917_230

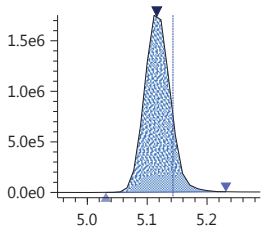
Sample ID: KQ1913122-01
Date acquired: 9/19/2019 7:16:39 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_230.lcd
Vial: 24 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.116	5385511	5385511	1	5.0000	ng/mL	----
PFBS_1	M	4.010	286921	1267614	2	1.1152	ng/mL	----
PFBS-13C	Auto	4.012	1271266	5385511	1	5.0787	ng/mL	----
PFBS-13C_IS	Auto	4.012	1267614	1267614	2	5.0000	ng/mL	----
PFHxS_1	Auto	4.398	190102	625413	3	1.2524	ng/mL	----
PFHxS-18O	Auto	4.401	625413	5385511	1	5.0480	ng/mL	----
PFHxS-18O_IS	Auto	4.401	625413	625413	3	5.0000	ng/mL	----
PFHpS_1	M	4.568	216871	625413	3	1.1255	ng/mL	----
PFOS_1	Auto	4.740	145857	722490	4	1.4713	ng/mL	----
PFOS-13C	Auto	4.740	722490	5385511	1	4.0011	ng/mL	----
PFOS-13C_IS	Auto	4.740	722490	722490	4	5.0000	ng/mL	----
PFDS_1	Auto	5.096	104681	722490	4	1.0549	ng/mL	----
PFBA	M	3.378	376808	3840178	5	0.6293	ng/mL	----
PFBA-13C	Auto	3.377	3840178	5385511	1	3.9301	ng/mL	----
PFBA-13C_IS	Auto	3.377	3840178	3840178	5	5.0000	ng/mL	----
PFPeA	Auto	3.960	775680	1641825	6	1.2253	ng/mL	----
PFPeA-13C	Auto	3.960	1641825	5385511	1	3.3074	ng/mL	----
PFPeA-13C_IS	Auto	3.960	1641825	1641825	6	5.0000	ng/mL	----
PFHxA	Auto	4.217	796497	3513747	7	1.1653	ng/mL	----
PFHxA-13C	Auto	4.218	3513747	5385511	1	2.9366	ng/mL	----
PFHxA-13C_IS	Auto	4.218	3513747	3513747	7	5.0000	ng/mL	----
PFHpA	Auto	4.401	905556	4349839	8	1.0508	ng/mL	----
PFHpA-13C	Auto	4.401	4349839	5385511	1	5.3750	ng/mL	----
PFHpA-13C_IS	Auto	4.401	4349839	4349839	8	5.0000	ng/mL	----
PFOA	Auto	4.575	2666494	5529263	9	2.9144	ng/mL	----
PFOA-13C	Auto	4.575	5529263	5385511	1	4.2410	ng/mL	----
PFOA-13C_IS	Auto	4.575	5529263	5529263	9	5.0000	ng/mL	----
PFNA	Auto	4.753	776611	3854442	10	1.2164	ng/mL	----
PFNA-13C	Auto	4.753	3854442	5385511	1	4.1979	ng/mL	----
PFNA-13C_IS	Auto	4.753	3854442	3854442	10	5.0000	ng/mL	----
PFDA	Auto	4.934	683494	3634306	11	1.1950	ng/mL	----
PFDA-13C	Auto	4.933	3634306	5385511	1	4.7850	ng/mL	----
PFDA-13C_IS	Auto	4.933	3634306	3634306	11	5.0000	ng/mL	----
PFUnA	Auto	5.116	650854	3772406	12	1.3048	ng/mL	----
PFUnA-13C	Auto	5.116	3772406	5385511	1	4.4191	ng/mL	----
PFUnA-13C_IS	Auto	5.116	3772406	3772406	12	5.0000	ng/mL	----
PFDoA	Auto	5.290	437915	3442794	13	1.2544	ng/mL	----
PFDoA-13C	Auto	5.291	3442794	5385511	1	3.3233	ng/mL	----
PFDoA-13C_IS	Auto	5.291	3442794	3442794	13	5.0000	ng/mL	----
PFTrDA	Auto	5.455	448242	2387913	14	0.9633	ng/mL	----
PFTeDA	Auto	5.606	270933	2387913	14	1.2662	ng/mL	----
PFTeDA-13C	Auto	5.606	2387913	5385511	1	2.9039	ng/mL	----
PFTeDA-13C_IS	Auto	5.606	2387913	2387913	14	5.0000	ng/mL	----
FOSA	M	5.231	202465	741455	16	1.1050	ng/mL	----
FOSA-13C	Auto	5.232	741455	5385511	1	1.6526	ng/mL	----
FOSA-13C_IS	Auto	5.232	741455	741455	16	5.0000	ng/mL	----
N-MeFOSAA	Auto	5.034	57439	228601	21	1.9148	ng/mL	----
N-MeFOSAA-d3	Auto	5.033	228601	5385511	1	2.7272	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.033	228601	228601	21	5.0000	ng/mL	----
N-EtFOSAA	Auto	5.133	35594	299083	22	1.2690	ng/mL	----
N-EtFOSAA-d5	Auto	5.132	299083	5385511	1	3.9078	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.132	299083	299083	22	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.561	122876	552250	24	1.0550	ng/mL	----
6_2-FTS-13C	Auto	4.562	552250	5385511	1	6.8881	ng/mL	----
6_2-FTS-13C_IS	Auto	4.562	552250	552250	24	5.0000	ng/mL	----
8_2-FTS_1	Auto	4.928	62394	389913	25	1.1361	ng/mL	----
8_2-FTS-13C	Auto	4.930	389913	5385511	1	7.4444	ng/mL	----
8_2-FTS-13C_IS	Auto	4.930	389913	389913	25	5.0000	ng/mL	----

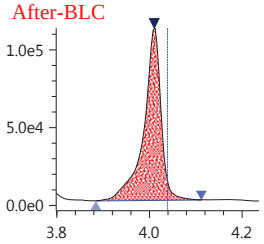
Insight Report

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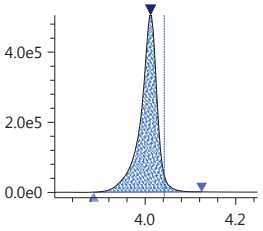
13C7-PFUnDA_IS
Conc 5.0000
RT 5.116 Area 5385511
ISTD 570.00>525.00 (-) 1.75e6



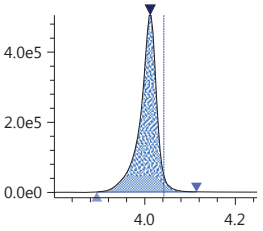
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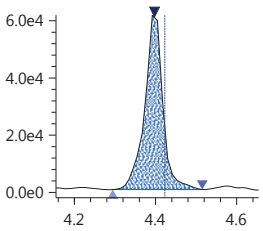
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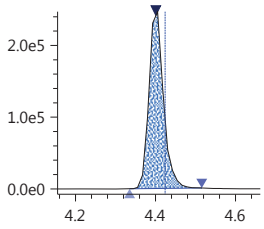
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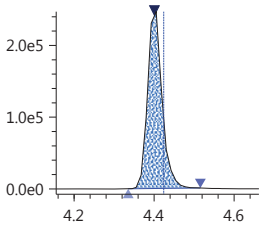
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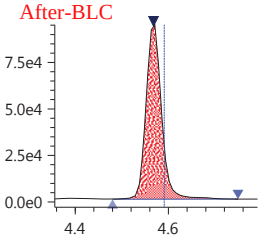
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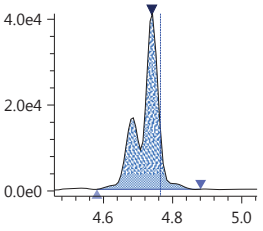
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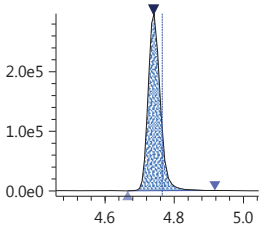
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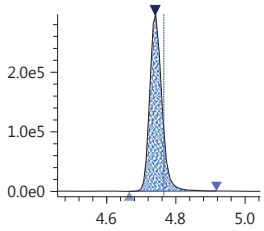
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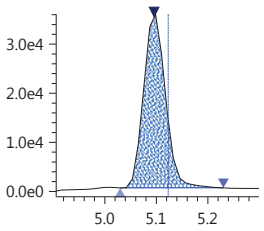
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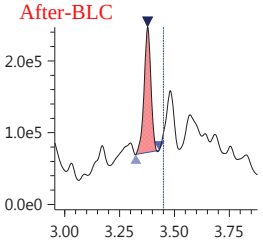
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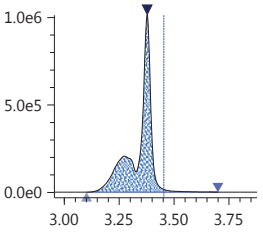
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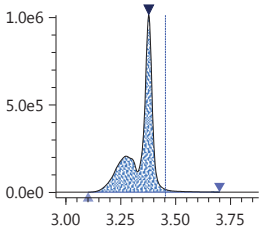
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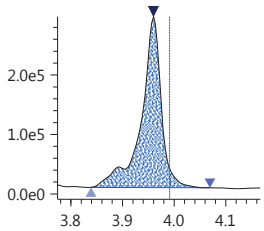
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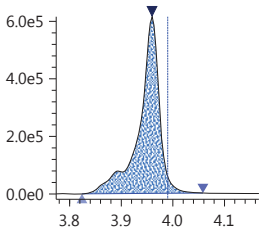
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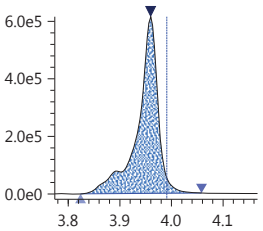
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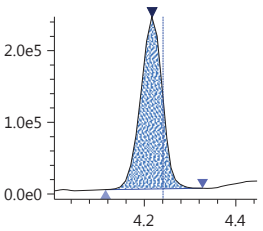
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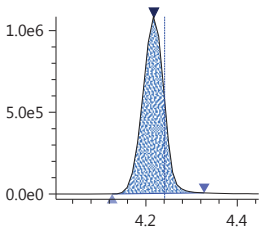
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Q 313.00>269.00 (-) 2.47e5



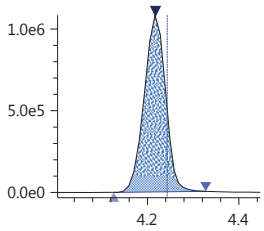
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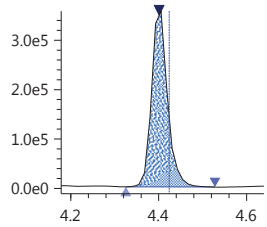
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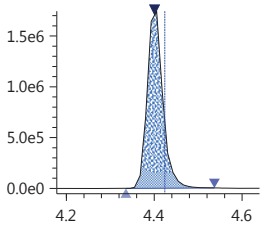
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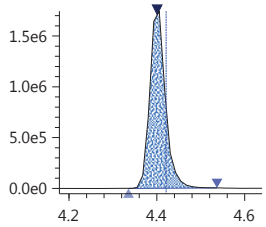
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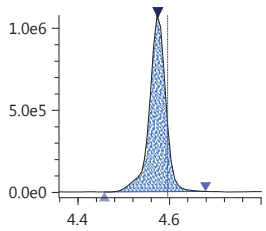
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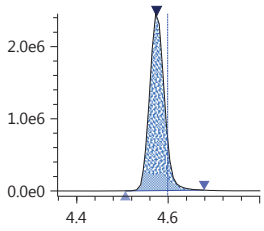
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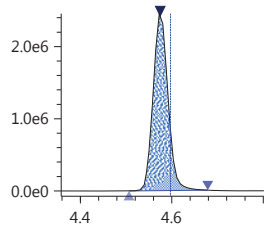
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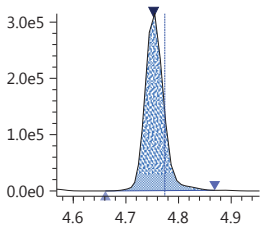
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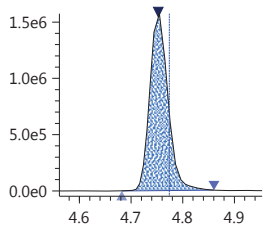
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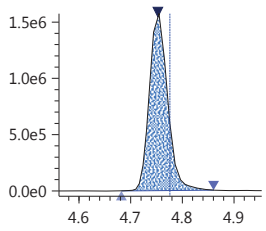
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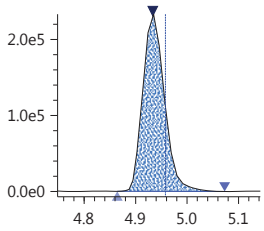
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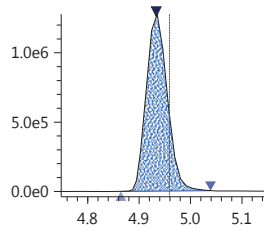
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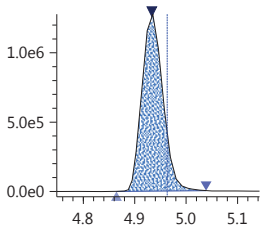
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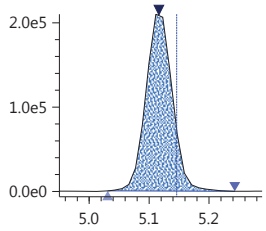
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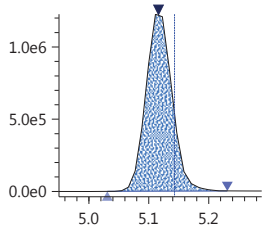
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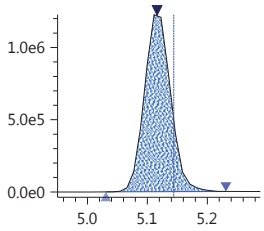
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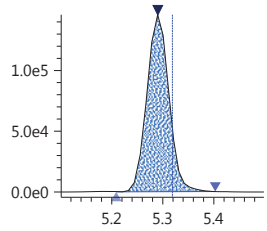
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Q 564.80>519.95 (-) 1.23e6



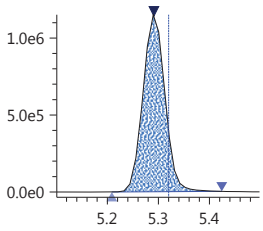
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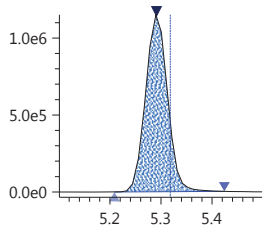
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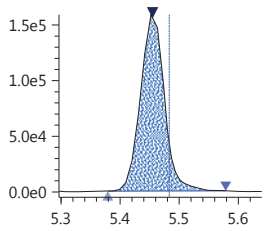
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Q 614.80>569.95 (-) 1.15e6



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ISTD 614.80>569.95 (-) 1.15e6



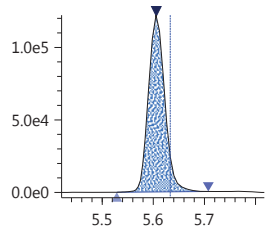
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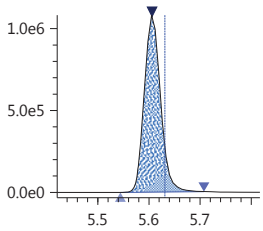
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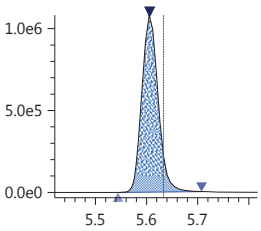
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RT 5.606 Area 270933
Q 713.40>669.00 (-) 1.22e5



PFTeDA-13C
Conc 2.9039
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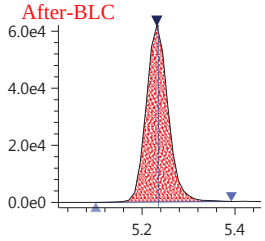


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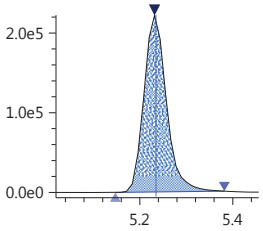


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Conc 1.1050
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Q 498.20>78.00 (-) 6.21e4

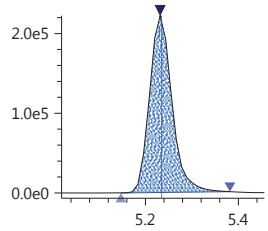
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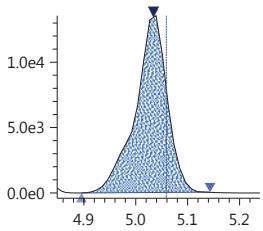
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Q 506.00>78.05 (-) 2.22e5



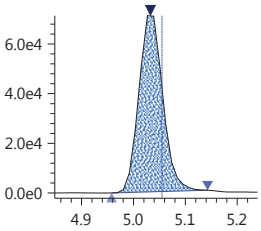
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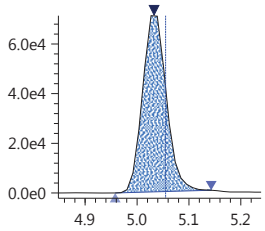
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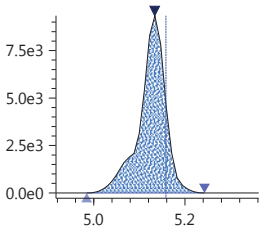
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Q 572.80>419.05 (-) 7.14e4



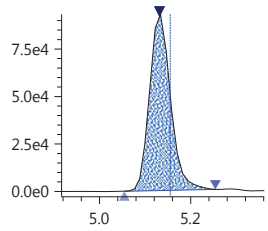
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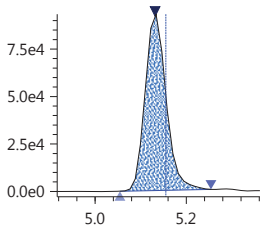
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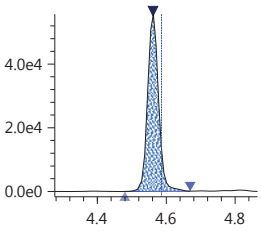
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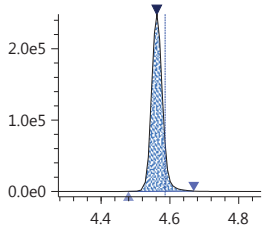
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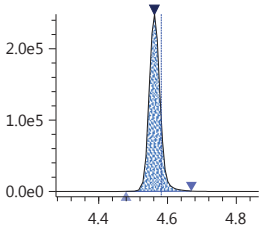
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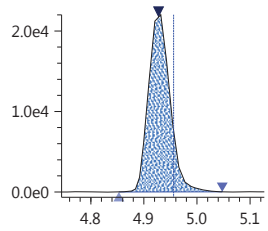
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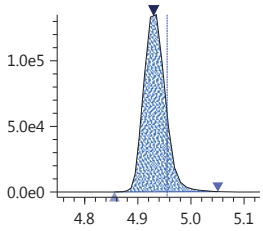
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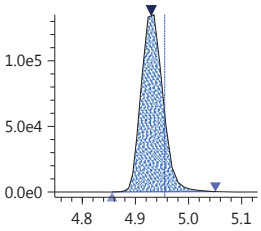
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Conc 1.1361
RT 4.928 Area 62394
Q 527.10>506.90 (-) 2.20e4



8_2-FTS-13C
Conc 7.4444
RT 4.930 Area 389913
Q 528.80>509.00 (-) 1.35e5



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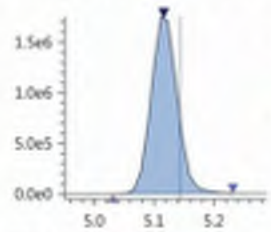
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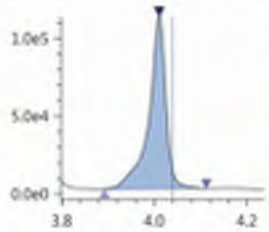
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Acquired by: System Administrator
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Vial: 24 | Inj. Volume: 15.0000uL | Tray: 3

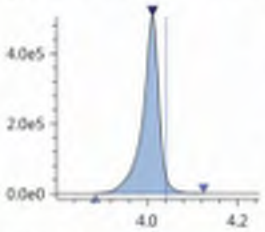
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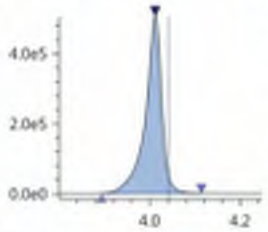
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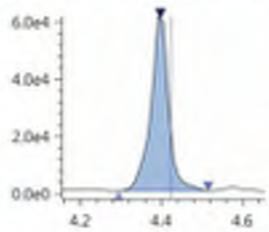
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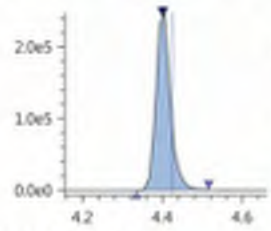
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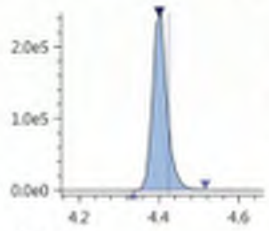
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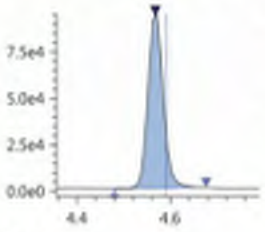
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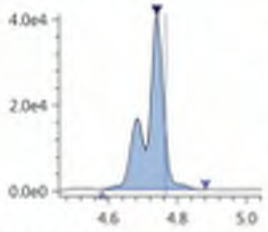
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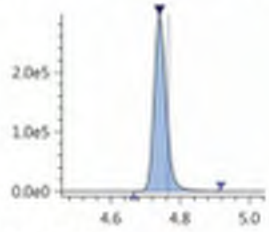
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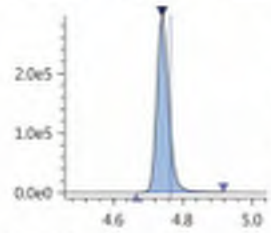
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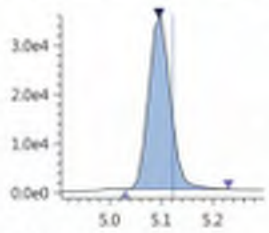
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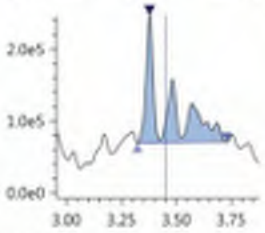
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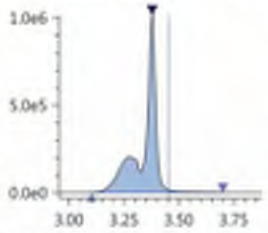
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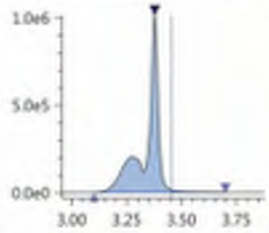
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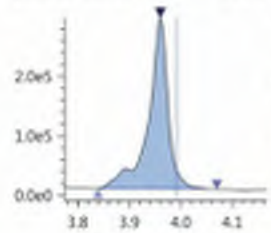
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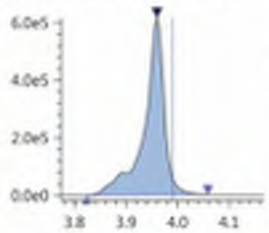
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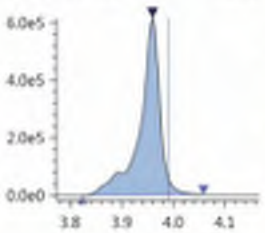
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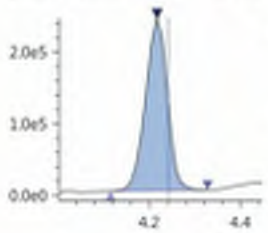
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Q 267.90>223.00 (-) 6.16e5



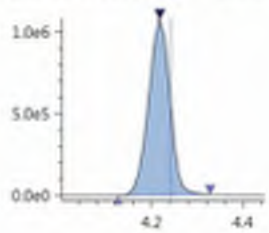
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PFHxA
Conc 1.1653
RT 4.217 Area 796497
Q 313.00>269.00 (-) 2.47e5



PFHxA-13C
Conc 2.9366
RT 4.218 Area 3513747
Q 314.90>270.10 (-) 1.09e6

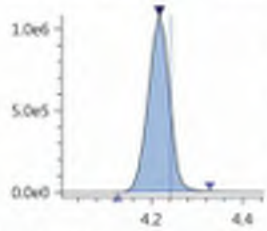


Manual Integration - Before

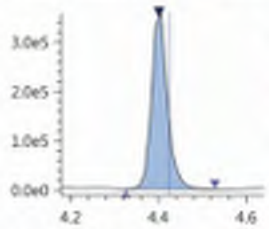
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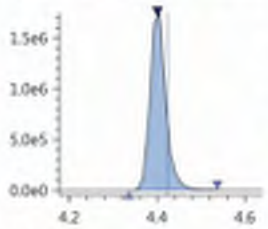
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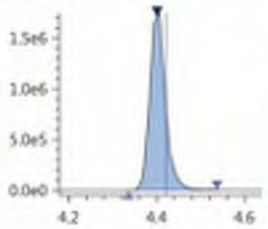
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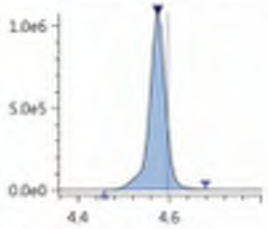
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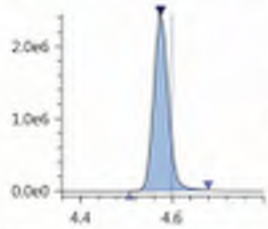
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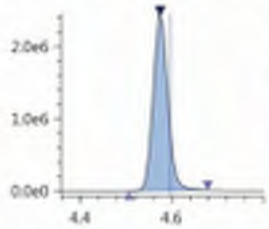
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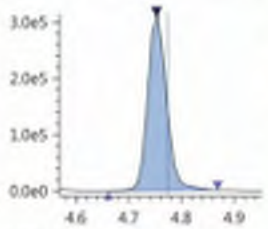
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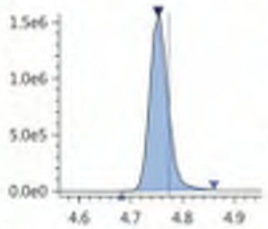
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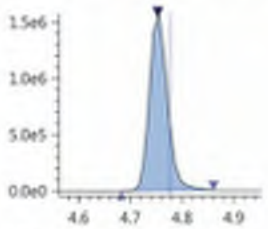
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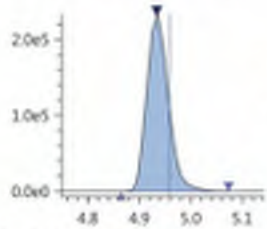
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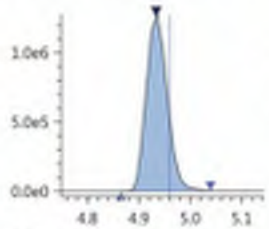
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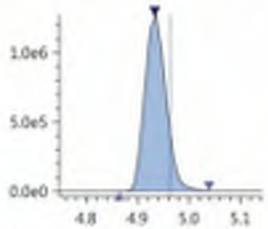
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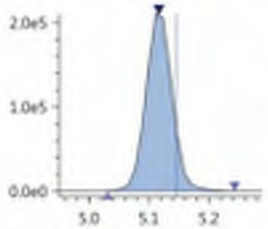
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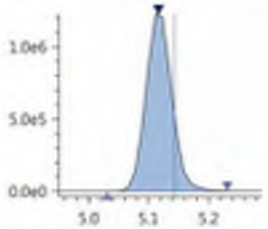
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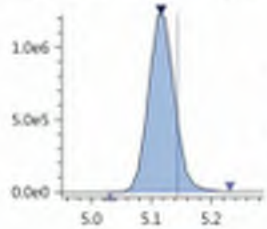
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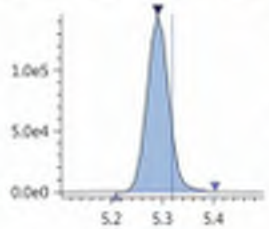
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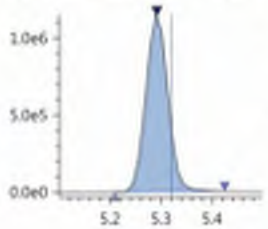
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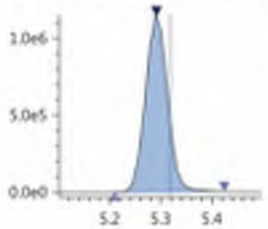
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RT 5.290 Area 437915
Q 613.05>569.00 (-) 1.46e5



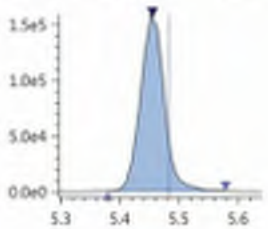
PFDoA-13C
Conc 3.3233
RT 5.291 Area 3442794
Q 614.80>569.95 (-) 1.15e6



PFDoA-13C_IS
Conc 5.0000
RT 5.291 Area 3442794
ISTD 614.80>569.95 (-) 1.15e6



PFTrDA
Conc 0.9633
RT 5.455 Area 448242
Q 663.00>618.90 (-) 1.59e5

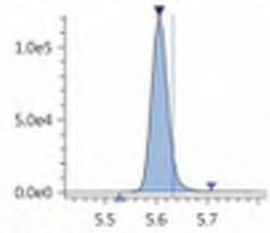


Manual Integration - Before

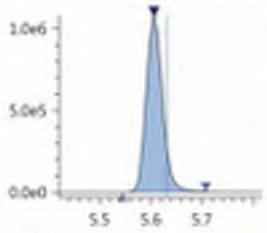
Insight Report

Printed at 9/19/2019 2:31:52 PM

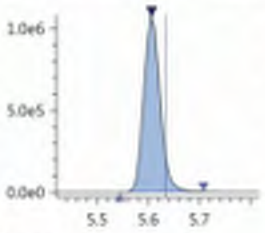
PFTeDA
Conc 1.2662
RT 5.606 Area 270933
Q 713.40>669.00 (-) 1.22e5



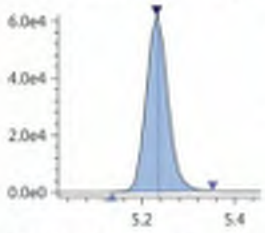
PFTeDA-13C
Conc 2.9039
RT 5.606 Area 2387913
Q 714.70>669.90 (-) 1.08e6



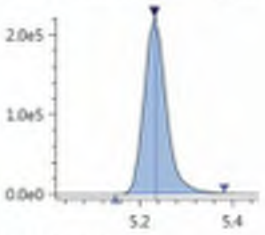
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Conc 5.0000
RT 5.606 Area 2387913
ISTD 714.70>669.90 (-) 1.08e6



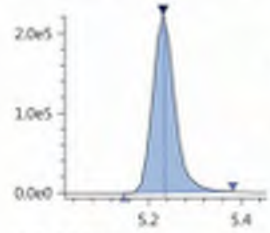
FOSA
Conc 1.0899
RT 5.231 Area 199690
Q 498.20>78.00 (-) 6.21e4



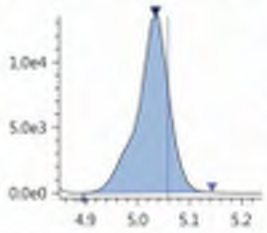
FOSA-13C
Conc 1.6526
RT 5.232 Area 741455
Q 506.00>78.05 (-) 2.22e5



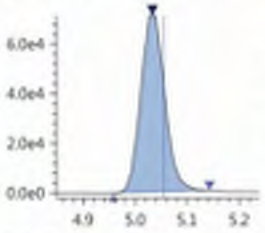
FOSA-13C_IS
Conc 5.0000
RT 5.232 Area 741455
ISTD 506.00>78.05 (-) 2.22e5



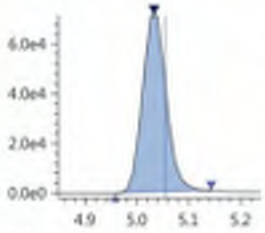
N-MeFOSAA
Conc 1.9148
RT 5.034 Area 57439
Q 570.20>419.00 (-) 1.36e4



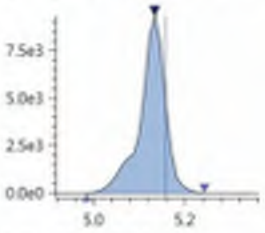
N-MeFOSAA-d3
Conc 2.7272
RT 5.033 Area 228601
Q 572.80>419.05 (-) 7.14e4



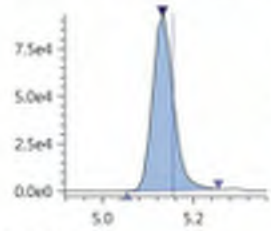
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Conc 5.0000
RT 5.033 Area 228601
ISTD 572.80>419.05 (-) 7.14e4



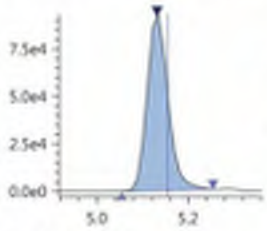
N-EtFOSAA
Conc 1.2690
RT 5.133 Area 35594
Q 584.20>418.95 (-) 9.34e3



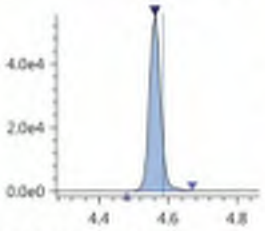
N-EtFOSAA-d5
Conc 3.9078
RT 5.132 Area 299083
Q 588.80>419.00 (-) 9.34e4



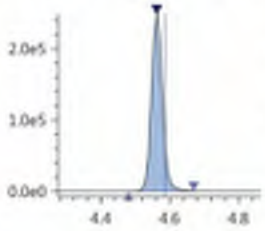
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Conc 5.0000
RT 5.132 Area 299083
ISTD 588.80>419.00 (-) 9.34e4



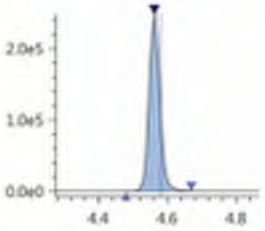
6_2-FTS_1
Conc 1.0550
RT 4.561 Area 122876
Q 427.00>407.00 (-) 5.57e4



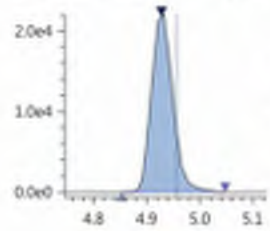
6_2-FTS-13C
Conc 6.8881
RT 4.562 Area 552250
Q 428.90>409.00 (-) 2.49e5



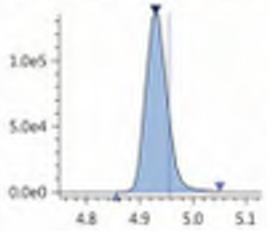
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Conc 5.0000
RT 4.562 Area 552250
ISTD 428.90>409.00 (-) 2.49e5



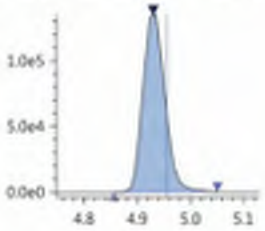
8_2-FTS_1
Conc 1.1361
RT 4.928 Area 62394
Q 527.10>506.90 (-) 2.20e4



8_2-FTS-13C
Conc 7.4444
RT 4.930 Area 389913
Q 528.80>509.00 (-) 1.35e5



8_2-FTS-13C_IS
Conc 5.0000
RT 4.930 Area 389913
ISTD 528.80>509.00 (-) 1.35e5



1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_231
Lab ID: KQ1913122-02
RunType: DMS
Matrix: Water

Date Acquired: 9/19/19 07:27
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C4-PFHpA	136	70	130	Narrate native ok
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	High bias, samples ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	High bias, samples ND
	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	High bias, samples ND
	13C3-PFBS	139	70	130	Narrate native ok
Surrogates	13C3-PFBS	137	20	109	Narrate native ok
	18O2-PFHxS	165	26	122	Narrate native ok
	13C4-PFBA	126	27	124	Narrate native ok
	13C4-PFHpA	178	19	139	Narrate native ok
	13C2-PFDA	155	24	125	Narrate native ok

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_231	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:27	**Vial:**	8
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ1913122-02	**Raw Units:**	ng/mL

Bottle ID:	R1908707-002.07	**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**	344503	**Report Group:**	KQ1913122
Analysis	PFC/537M	**Prep Method:**	EPA 3535A		
		Prep Date:	9/16/19		

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.123	+0.00	3570084	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.019	-0.01	1136183	6.8472	137	*	20 - 109	Y
18O2-PFHxS	4.410	0.00	677448	8.2486	165	*	26 - 122	Y
13C4-PFOS	4.750		551829	4.6100	92		25 - 121	Y
13C4-PFBA	3.384	-0.04	4066010	6.2773	126	*	27 - 124	Y
13C5-PFPeA	3.967	-0.01	1522537	4.6268	93		27 - 138	Y
13C2-PFHxA	4.227	-0.01	2871832	3.6206	72		28 - 132	Y
13C4-PFHpA	4.410	+0.00	4771906	8.8950	178	*	19 - 139	Y
13C4-PFOA	4.584	+0.00	4910017	5.6811	114		22 - 130	Y
13C5-PFNA	4.761	+0.00	3265537	5.3651	107		20 - 127	Y
13C2-PFDA	4.941		3897770	7.7415	155	*	24 - 125	Y
13C2-PFUnDA	5.124	+0.00	2147319	3.7945	76		22 - 125	Y
13C2-PFDoDA	5.300	+0.00	3154393	4.5932	92		19 - 122	Y
13C2-PFTeDA	5.615	+0.00	2113561	3.8772	78		13 - 124	Y
13C8-FOSA	5.240	+0.01	771541	2.5941	52		18 - 109	Y
D3-MeFOSAA	5.041	+0.00	178724	3.2164	64		9 - 123	Y
D5-EtFOSAA	5.142	+0.01	261774	5.1595	103		12 - 126	Y
13C2-6:2 FTS	4.571		440478	8.2878	166		10 - 226	Y
13C2-8:2 FTS	4.935	0.00	285230	8.2150	164		10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.018	-0.01	260068	1.1328	29.7		Y
Perfluorohexane sulfonic acid (PFHxS)	4.408		178563	1.0812	28.4		Y

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_231	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 07:27	**Vial:**	8
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ1913122-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	4.576	0.00	179752	0.8612	22.6		Y
Perfluorooctane sulfonic acid (PFOS)	4.693	-0.06	119981	1.5846	41.6		Y
Perfluorodecane sulfonic acid (PFDS)	5.105	0.00	108334	1.4293	37.5		Y
Perfluorobutanoic acid (PFBA)	3.385	-0.04	409544	0.6459	16.9		Y
Perfluoropentanoic acid (PFPeA)	3.967	-0.01	731395	1.2478	32.7		Y
Perfluorohexanoic acid (PFHxA)	4.227	0.00	678450	1.2154	31.9		Y
Perfluoroheptanoic acid (PFHpA)	4.410		1086466	1.1509	30.2		Y
Perfluorooctanoic acid (PFOA)	4.584	+0.00	2471815	3.0434	79.8		Y
Perfluorononanoic acid (PFNA)	4.761	+0.00	673863	1.2465	32.7		Y
Perfluorodecanoic acid (PFDA)	4.941		776138	1.2660	33.2		Y
Perfluoroundecanoic acid (PFUnDA)	5.124	+0.00	362246	1.2754	33.5		Y
Perfluorododecanoic acid (PFDoDA)	5.302	+0.01	475193	1.4811	38.8		Y
Perfluorotridecanoic acid (PFTrDA)	5.465	+0.00	430062	1.0446	27.4		Y
Perfluorotetradecanoic acid (PFTeDA)	5.615	+0.00	219546	1.1467	30.1		Y
Perfluorooctane sulfonamide (FOSA)	5.240	+0.01	195714	1.0265	26.9		Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.044	+0.01	31478	1.3422	35.2		Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.144	+0.01	36178	1.4736	38.7		Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.571		95036	1.0230	26.8		Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.936	0.00	42467	1.0570	27.7		Y

Prep Amount:	305.0000 mL	**Dilution:**	1
Prep Final Amount:	8.00 mL	**Basis Factor:**	100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

Printed at 9/19/2019 3:30:48 PM

190917_231

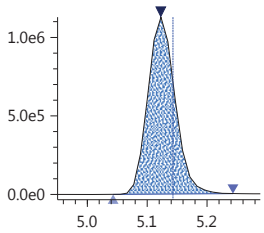
Sample ID: KQ1913122-02
Date acquired: 9/19/2019 7:27:08 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_231.lcd
Vial: 25 | Inj. Volume: 15.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.123	3570084	3570084	1	5.0000	ng/mL	----
PFBS_1	M	4.018	260068	1131052	2	1.1328	ng/mL	----
PFBS-13C	Auto	4.019	1136183	3570084	1	6.8472	ng/mL	----
PFBS-13C_IS	Auto	4.019	1131052	1131052	2	5.0000	ng/mL	----
PFHxS_1	Auto	4.408	178563	677448	3	1.0812	ng/mL	----
PFHxS-18O	Auto	4.410	677448	3570084	1	8.2486	ng/mL	----
PFHxS-18O_IS	Auto	4.410	677448	677448	3	5.0000	ng/mL	----
PFHpS_1	M	4.576	179752	677448	3	0.8612	ng/mL	----
PFOS_1	M	4.693	119981	551829	4	1.5846	ng/mL	----
PFOS-13C	Auto	4.750	551829	3570084	1	4.6100	ng/mL	----
PFOS-13C_IS	Auto	4.750	551829	551829	4	5.0000	ng/mL	----
PFDS_1	Auto	5.105	108334	551829	4	1.4293	ng/mL	----
PFBA	Auto	3.385	409544	4066010	5	0.6459	ng/mL	----
PFBA-13C	Auto	3.384	4066010	3570084	1	6.2773	ng/mL	----
PFBA-13C_IS	Auto	3.384	4066010	4066010	5	5.0000	ng/mL	----
PFPeA	M	3.967	731395	1522537	6	1.2478	ng/mL	----
PFPeA-13C	Auto	3.967	1522537	3570084	1	4.6268	ng/mL	----
PFPeA-13C_IS	Auto	3.967	1522537	1522537	6	5.0000	ng/mL	----
PFHxA	Auto	4.227	678450	2871832	7	1.2154	ng/mL	----
PFHxA-13C	Auto	4.227	2871832	3570084	1	3.6206	ng/mL	----
PFHxA-13C_IS	Auto	4.227	2871832	2871832	7	5.0000	ng/mL	----
PFHpA	Auto	4.410	1086466	4771906	8	1.1509	ng/mL	----
PFHpA-13C	Auto	4.410	4771906	3570084	1	8.8950	ng/mL	----
PFHpA-13C_IS	Auto	4.410	4771906	4771906	8	5.0000	ng/mL	----
PFOA	Auto	4.584	2471815	4910017	9	3.0434	ng/mL	----
PFOA-13C	Auto	4.584	4910017	3570084	1	5.6811	ng/mL	----
PFOA-13C_IS	Auto	4.584	4910017	4910017	9	5.0000	ng/mL	----
PFNA	Auto	4.761	673863	3265537	10	1.2465	ng/mL	----
PFNA-13C	Auto	4.761	3265537	3570084	1	5.3651	ng/mL	----
PFNA-13C_IS	Auto	4.761	3265537	3265537	10	5.0000	ng/mL	----
PFDA	Auto	4.941	776138	3897770	11	1.2660	ng/mL	----
PFDA-13C	Auto	4.941	3897770	3570084	1	7.7415	ng/mL	----
PFDA-13C_IS	Auto	4.941	3897770	3897770	11	5.0000	ng/mL	----
PFUnA	Auto	5.124	362246	2147319	12	1.2754	ng/mL	----
PFUnA-13C	Auto	5.124	2147319	3570084	1	3.7945	ng/mL	----
PFUnA-13C_IS	Auto	5.124	2147319	2147319	12	5.0000	ng/mL	----
PFDoA	Auto	5.302	475193	3154393	13	1.4811	ng/mL	----
PFDoA-13C	Auto	5.300	3154393	3570084	1	4.5932	ng/mL	----
PFDoA-13C_IS	Auto	5.300	3154393	3154393	13	5.0000	ng/mL	----
PFTrDA	Auto	5.465	430062	2113561	14	1.0446	ng/mL	----
PFTeDA	Auto	5.615	219546	2113561	14	1.1467	ng/mL	----
PFTeDA-13C	Auto	5.615	2113561	3570084	1	3.8772	ng/mL	----
PFTeDA-13C_IS	Auto	5.615	2113561	2113561	14	5.0000	ng/mL	----
FOSA	M	5.240	195714	771541	16	1.0265	ng/mL	----
FOSA-13C	Auto	5.240	771541	3570084	1	2.5941	ng/mL	----
FOSA-13C_IS	Auto	5.240	771541	771541	16	5.0000	ng/mL	----
N-MeFOSAA	M	5.044	31478	178724	21	1.3422	ng/mL	----
N-MeFOSAA-d3	Auto	5.041	178724	3570084	1	3.2164	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.041	178724	178724	21	5.0000	ng/mL	----
N-EtFOSAA	Auto	5.144	36178	261774	22	1.4736	ng/mL	----
N-EtFOSAA-d5	Auto	5.142	261774	3570084	1	5.1595	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.142	261774	261774	22	5.0000	ng/mL	----
6_2-FTS_1	M	4.571	95036	440478	24	1.0230	ng/mL	----
6_2-FTS-13C	Auto	4.571	440478	3570084	1	8.2878	ng/mL	----
6_2-FTS-13C_IS	Auto	4.571	440478	440478	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.936	42467	285230	25	1.0570	ng/mL	----
8_2-FTS-13C	Auto	4.935	285230	3570084	1	8.2150	ng/mL	----
8_2-FTS-13C_IS	Auto	4.935	285230	285230	25	5.0000	ng/mL	----

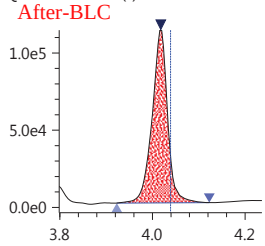
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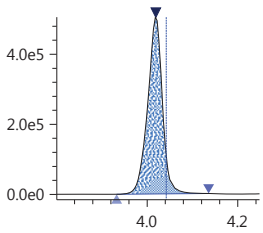
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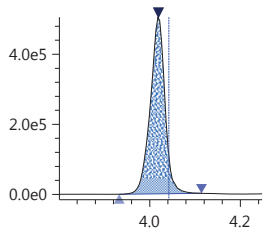
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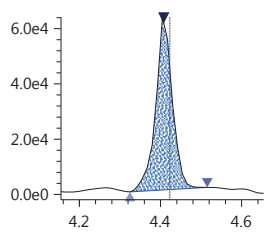
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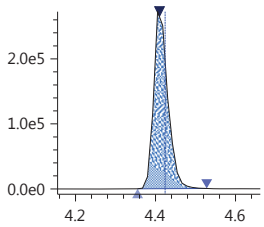
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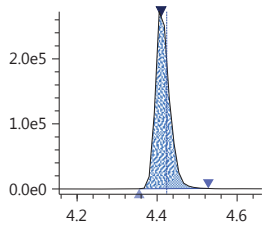
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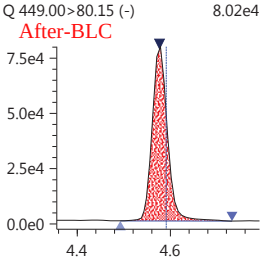
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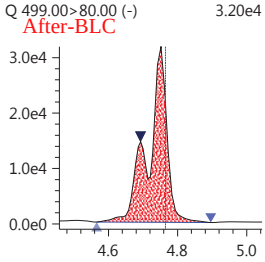
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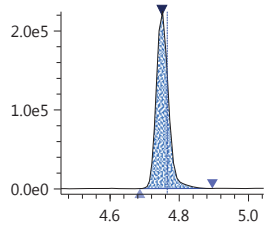
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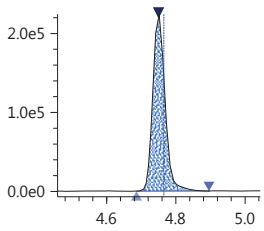
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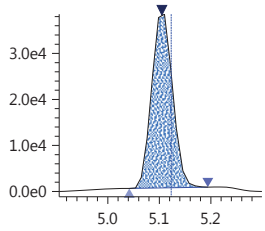
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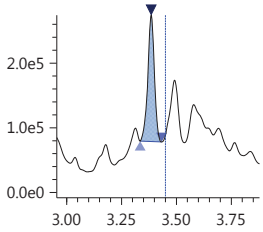
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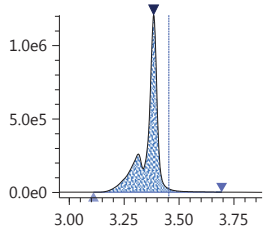
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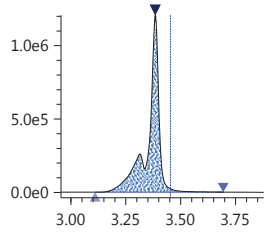
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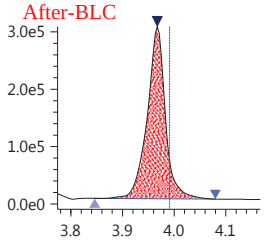
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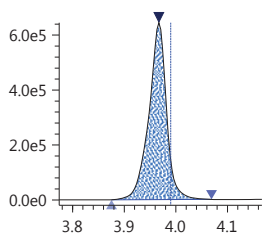
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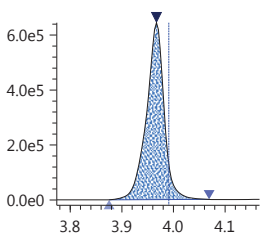
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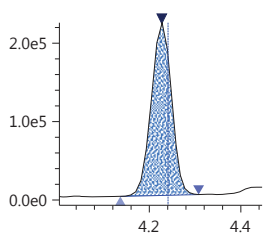
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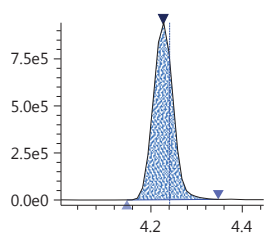
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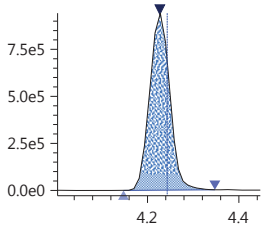


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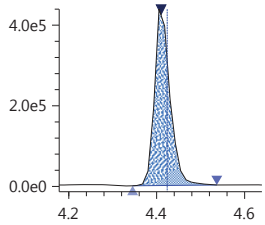


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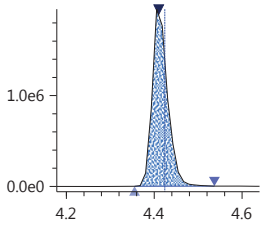
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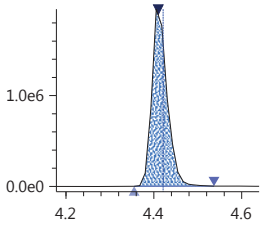
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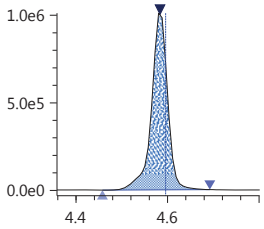
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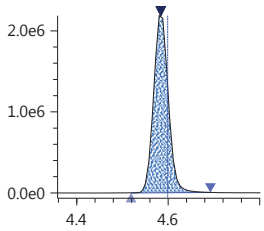
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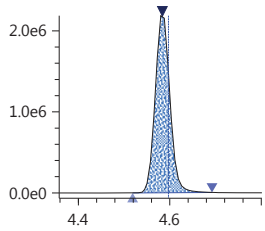
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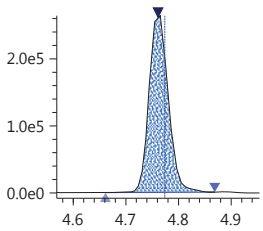
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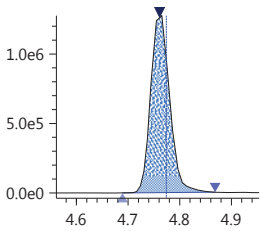
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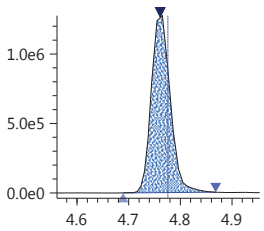
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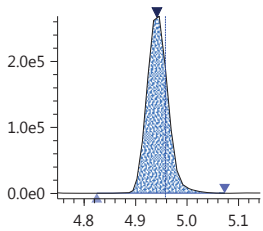
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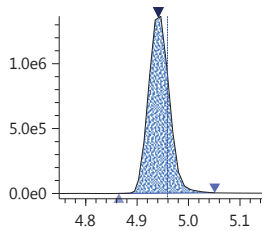
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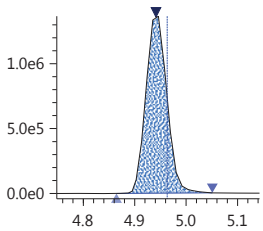
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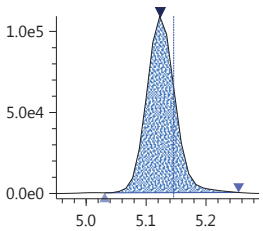
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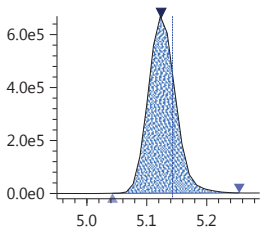
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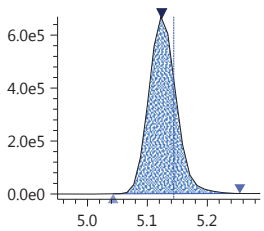
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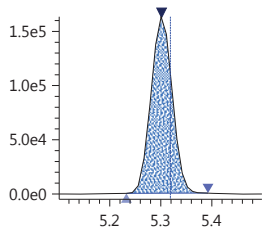
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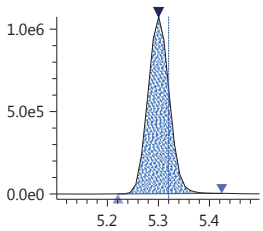
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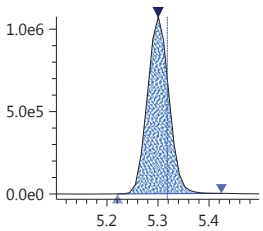
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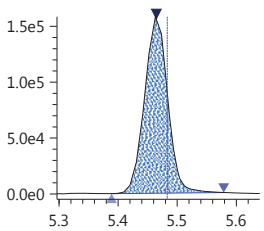
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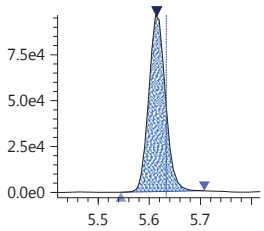
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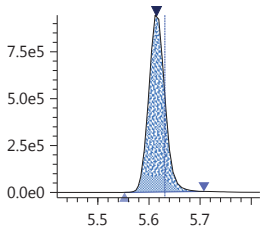
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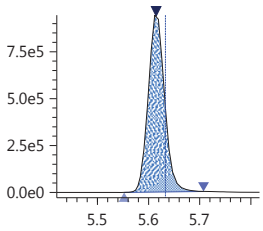
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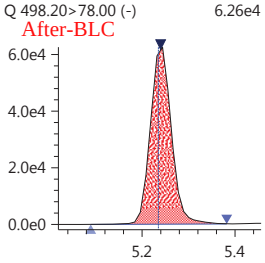
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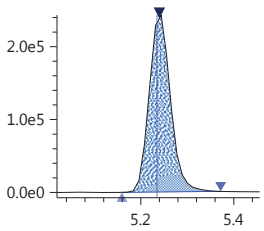
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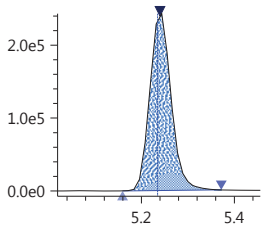
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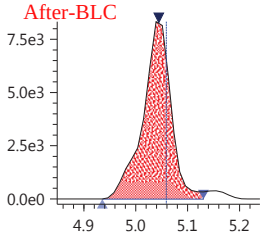
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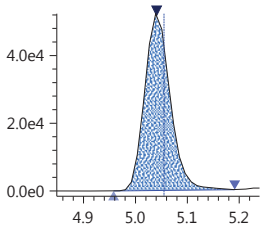
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Conc 5.0000
RT 5.240 Area 771541
ISTD 506.00>78.05 (-) 2.43e5



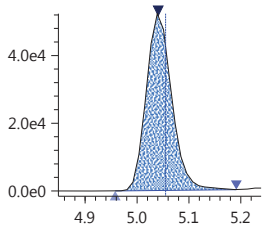
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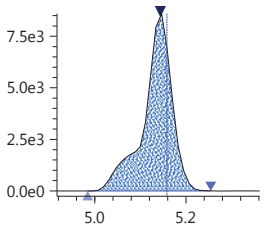
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Conc 3.2164
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Q 572.80>419.05 (-) 5.24e4



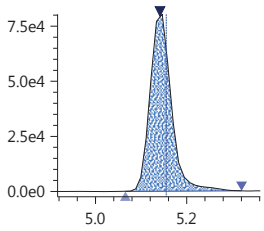
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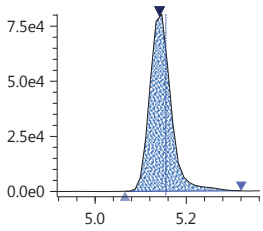
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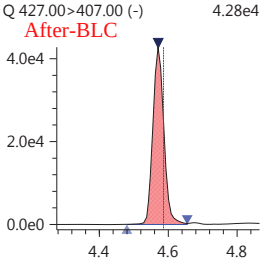
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Q 588.80>419.00 (-) 8.05e4



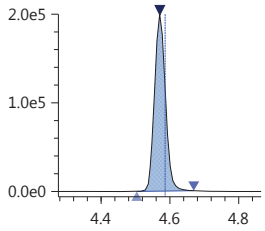
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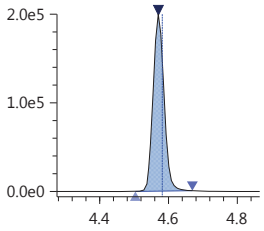
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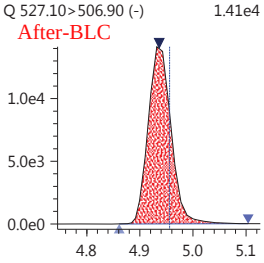
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Q 428.90>409.00 (-) 2.00e5



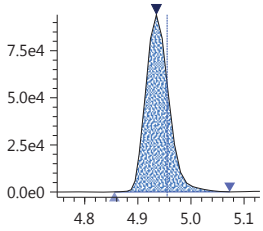
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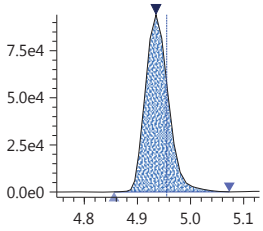
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Q 527.10>506.90 (-) 1.41e4



8_2-FTS-13C
Conc 8.2150
RT 4.935 Area 285230
Q 528.80>509.00 (-) 9.41e4



8_2-FTS-13C_IS
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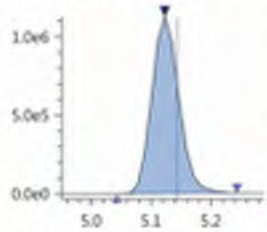
Insight Report

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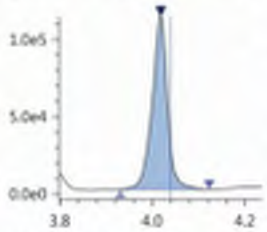
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Date acquired: 9/19/2019 7:27:08 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_231.lcd
Vial: 25 | Inj. Volume: 15.0000uL | Tray: 3

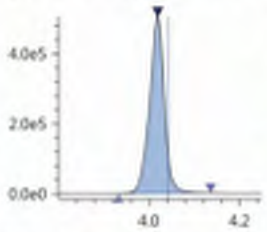
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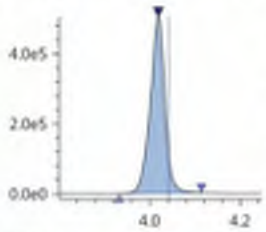
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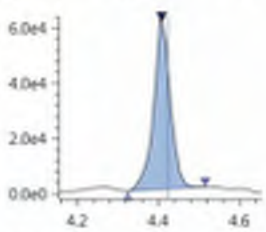
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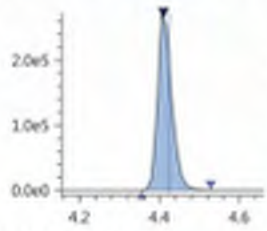
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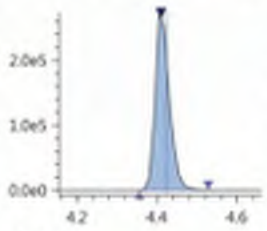
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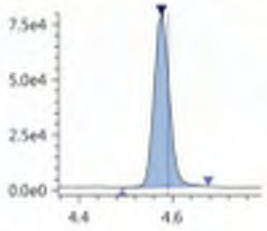
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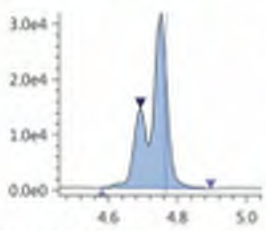
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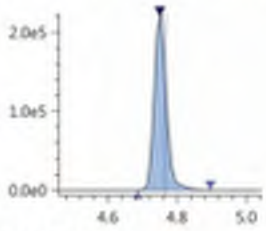
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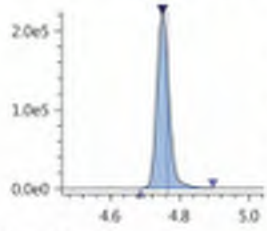
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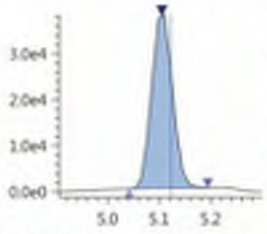
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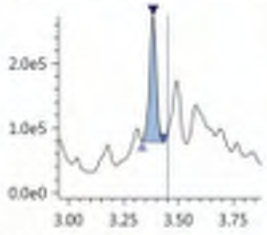
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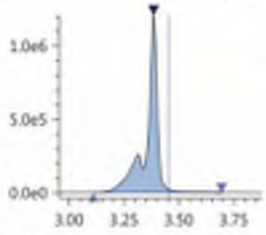
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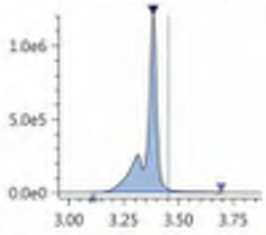
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Q 213.00>169.10 (-) 2.74e5



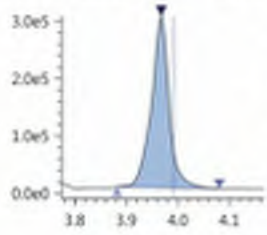
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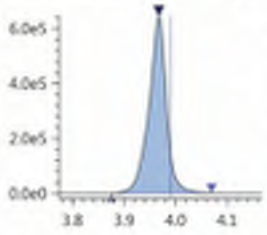
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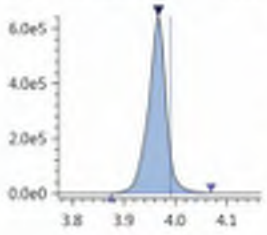
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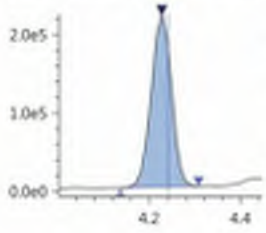
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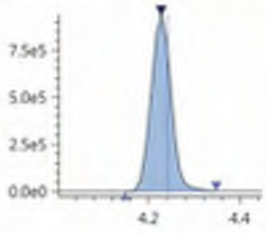
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ISTD 267.90>223.00 (-) 6.45e5



PFHxA
Conc 1.2154
RT 4.227 Area 678450
Q 313.00>269.00 (-) 2.26e5



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Q 314.90>270.10 (-) 9.42e5

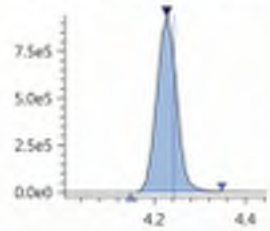


Manual Integration - Before

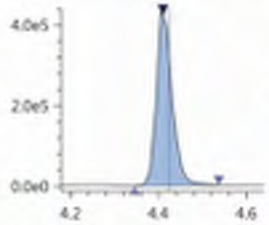
Insight Report

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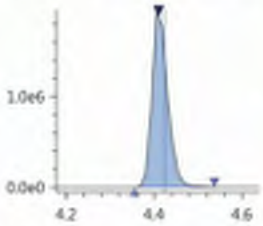
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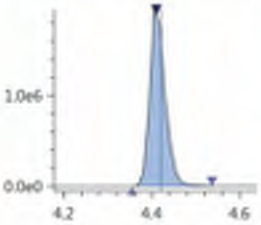
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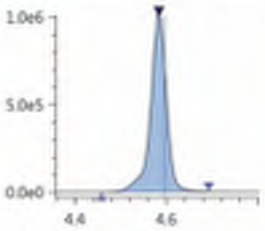
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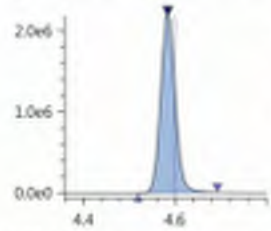
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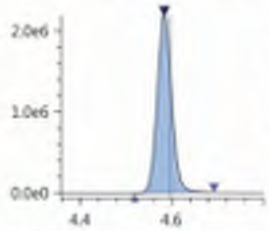
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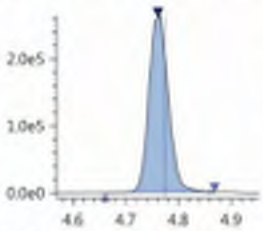
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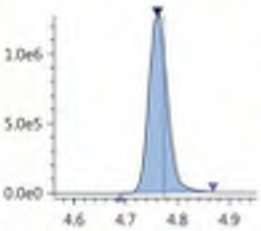
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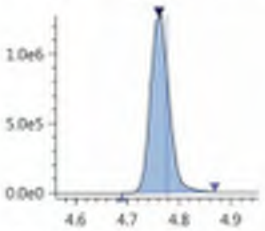
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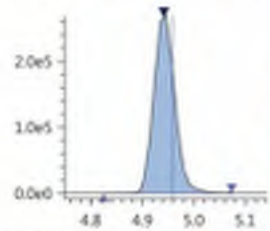
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Q 467.80>423.00 (-) 1.28e6



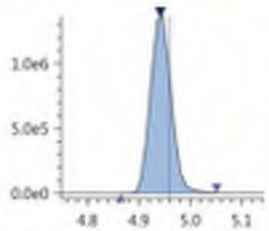
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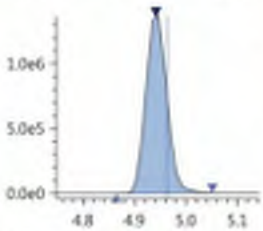
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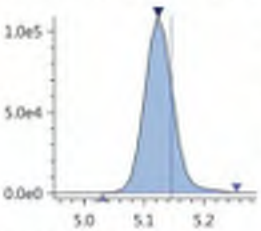
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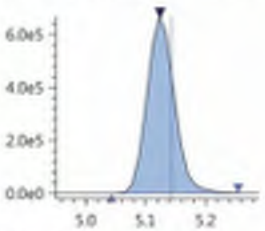
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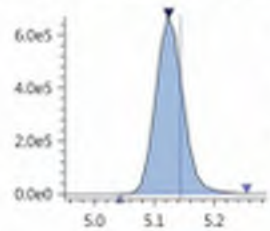
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RT 5.124 Area 362246
Q 563.00>518.90 (-) 1.09e5



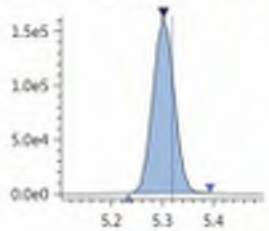
PFUnA-13C
Conc 3.7945
RT 5.124 Area 2147319
Q 564.80>519.95 (-) 6.70e5



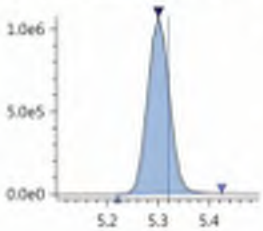
PFUnA-13C_IS
Conc 5.0000
RT 5.124 Area 2147319
ISTD 564.80>519.95 (-) 6.70e5



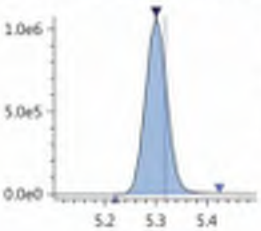
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Conc 1.4811
RT 5.302 Area 475193
Q 613.05>569.00 (-) 1.64e5



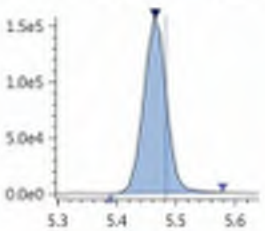
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Conc 4.5932
RT 5.300 Area 3154393
Q 614.80>569.95 (-) 1.08e6



PFDoA-13C_IS
Conc 5.0000
RT 5.300 Area 3154393
ISTD 614.80>569.95 (-) 1.08e6



PFTrDA
Conc 1.0446
RT 5.465 Area 430062
Q 663.00>618.90 (-) 1.59e5

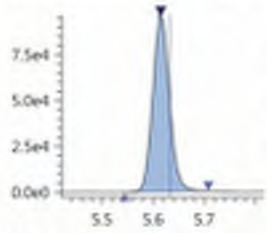


Manual Integration - Before

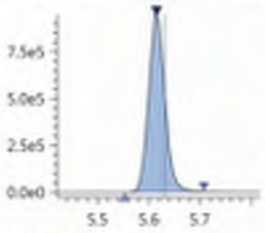
Insight Report

Printed at 9/19/2019 2:31:52 PM

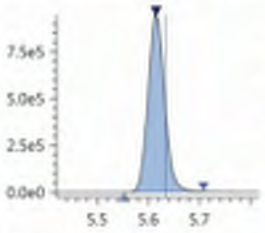
PFTeDA
Conc 1.1467
RT 5.615 Area 219546
Q 713.40>669.00 (-) 9.66e4



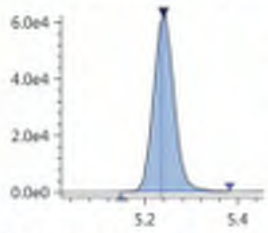
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Conc 3.8772
RT 5.615 Area 2113561
Q 714.70>669.90 (-) 9.45e5



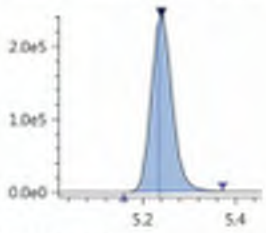
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Conc 5.0000
RT 5.615 Area 2113561
ISTD 714.70>669.90 (-) 9.45e5



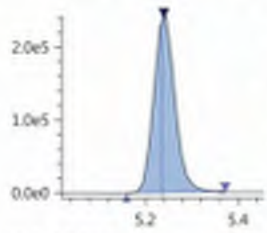
FOSA
Conc 1.0217
RT 5.240 Area 194783
Q 498.20>78.00 (-) 6.26e4



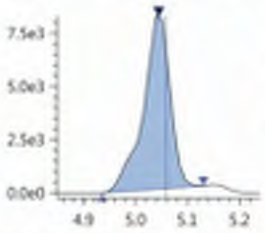
FOSA-13C
Conc 2.5941
RT 5.240 Area 771541
Q 506.00>78.05 (-) 2.43e5



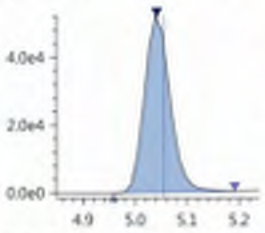
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Conc 5.0000
RT 5.240 Area 771541
ISTD 506.00>78.05 (-) 2.43e5



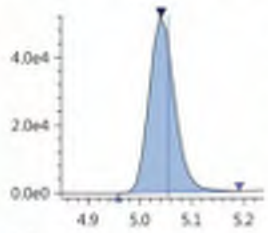
N-MeFOSAA
Conc 1.2549
RT 5.044 Area 29430
Q 570.20>419.00 (-) 8.33e3



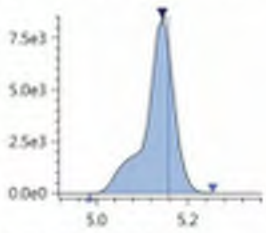
N-MeFOSAA-d3
Conc 3.2164
RT 5.041 Area 178724
Q 572.80>419.05 (-) 5.24e4



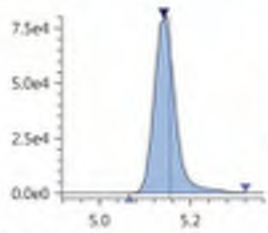
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Conc 5.0000
RT 5.041 Area 178724
ISTD 572.80>419.05 (-) 5.24e4



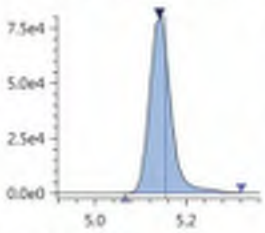
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Conc 1.4736
RT 5.144 Area 36178
Q 584.20>418.95 (-) 8.60e3



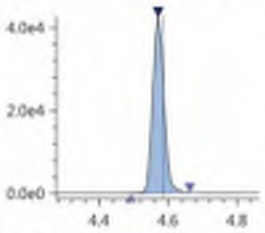
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Conc 5.1595
RT 5.142 Area 261774
Q 588.80>419.00 (-) 8.05e4



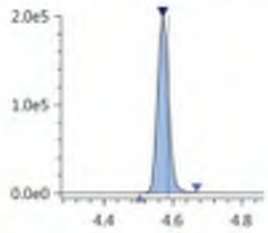
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Conc 5.0000
RT 5.142 Area 261774
ISTD 588.80>419.00 (-) 8.05e4



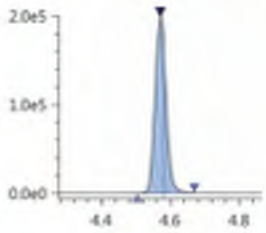
6_2-FTS_1
Conc 1.0084
RT 4.571 Area 93680
Q 427.00>407.00 (-) 4.28e4



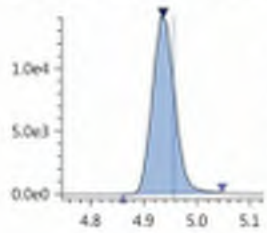
6_2-FTS-13C
Conc 8.2878
RT 4.571 Area 440478
Q 428.90>409.00 (-) 2.00e5



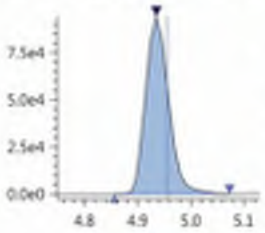
6_2-FTS-13C_IS
Conc 5.0000
RT 4.571 Area 440478
ISTD 428.90>409.00 (-) 2.00e5



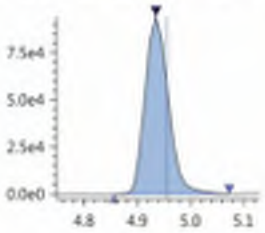
8_2-FTS_1
Conc 1.0445
RT 4.936 Area 41964
Q 527.10>506.90 (-) 1.41e4



8_2-FTS-13C
Conc 8.2150
RT 4.935 Area 285230
Q 528.80>509.00 (-) 9.41e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.935 Area 285230
ISTD 528.80>509.00 (-) 9.41e4



Manual Integration - Before

1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_225
Lab ID: KQ1913393-02
RunType: CCB
Matrix: Water

Date Acquired: 9/19/19 06:24
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates		X
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	13C4-PFHpA	136	70	130	Narrate high bias, ND
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	143	70	130	Narrate high bias, ND
	Perfluorodecane sulfonic acid (PFDS)	144	70	130	Narrate high bias, ND
	N-Ethyl perfluorooctane sulfonamidoacetic acid	134	70	130	Narrate high bias, ND
	13C3-PFBS	139	70	130	Narrate high bias, ND
Surrogates	13C3-PFBS	133	20	109	Narrate high bias, ND
	18O2-PFHxS	139	26	122	Narrate high bias, ND
	13C4-PFOS	123	25	121	Narrate high bias, ND
	13C4-PFHpA	155	19	139	Narrate high bias, ND
	13C2-PFDA	138	24	125	Narrate high bias, ND
	13C2-PFDoDA	124	19	122	Narrate high bias, ND
	13C8-FOSA	116	18	109	Narrate high bias, ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_225	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:24	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ1913393-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**		**Report Group:**	KQ1913393
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.120	0.00	5253202	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec		% Rec Criteria	Rpt?
13C3-PFBS	4.029	0.00	1621549	6.6412	133	*	20 - 109	Y
18O2-PFHxS	4.410	0.00	839046	6.9430	139	*	26 - 122	Y
13C4-PFOS	4.750		1081674	6.1411	123	*	25 - 121	Y
13C4-PFBA	3.427	0.00	5672750	5.9519	119		27 - 124	Y
13C5-PFPeA	3.976	0.00	2896738	5.9824	120		27 - 138	Y
13C2-PFHxA	4.231	0.00	6235539	5.3426	107		28 - 132	Y
13C4-PFHpA	4.409		6119589	7.7523	155	*	19 - 139	Y
13C4-PFOA	4.582	0.00	6737089	5.2976	106		22 - 130	Y
13C5-PFNA	4.759	0.00	4849727	5.4149	108		20 - 127	Y
13C2-PFDA	4.940	0.00	5115926	6.9054	138	*	24 - 125	Y
13C2-PFUnDA	5.121	0.00	3978352	4.7777	96		22 - 125	Y
13C2-PFDoDA	5.295	0.00	6272364	6.2071	124	*	19 - 122	Y
13C2-PFTeDA	5.611		4194620	5.2294	105		13 - 124	Y
13C8-FOSA	5.229	0.00	2541800	5.8079	116	*	18 - 109	Y
D3-MeFOSAA	5.034	0.00	422458	5.1669	103		9 - 123	Y
D5-EtFOSAA	5.130	0.00	397048	5.3184	106		12 - 126	Y
13C2-6:2 FTS	4.570	0.00	395335	5.0552	101		10 - 226	Y
13C2-8:2 FTS	4.936	0.00	258553	5.0608	101		10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	3.989	-0.04	3550	0.0108	0.35	J	Y
Perfluorohexane sulfonic acid (PFHxS)	4.411	+0.00	8087	0.0050	0.16	U	Y

1st EJD 09/19/19

2nd 09/23/19

Data File:	J:\LCMS06\Data\190917_b9\190917_225	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:24	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ1913393-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	0		0	0	0	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.750		1088	0.0073	0.23	U	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	3.430	+0.00	3976	0.0045	0.14	U	Y
Perfluoropentanoic acid (PFPeA)	3.976	0.00	127828	0.0097	0.31	U	Y
Perfluorohexanoic acid (PFHxA)	4.228	0.00	21932	-0.0026	0	U	Y
Perfluoroheptanoic acid (PFHpA)	4.402	-0.01	22182	0.0001	0.0032	U	Y
Perfluorooctanoic acid (PFOA)	4.582	0.00	22532	-0.0038	0	U	Y
Perfluorononanoic acid (PFNA)	4.700	-0.06	4260	-0.0198	0	U	Y
Perfluorodecanoic acid (PFDA)	4.932	-0.01	4481	-0.0067	0	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.117	-0.01	11065	-0.0007	0	U	Y
Perfluorododecanoic acid (PFDoDA)	5.301	+0.01	7074	0.0353	1.1	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.455	-0.01	4241	0.0009	0.029	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.610	0.00	51807	0.0057	0.18	U	Y
Perfluorooctane sulfonamide (FOSA)	5.223	-0.01	1423	0.0023	0.074	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.604	+0.03	156	0.0019	0.061	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	0		0	0	0	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

Printed at 9/19/2019 3:30:48 PM

190917_225

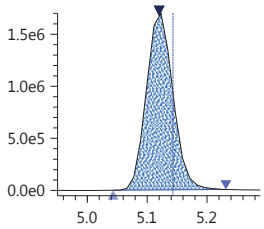
Sample ID: IB
Date acquired: 9/19/2019 6:24:26 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_225.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.120	5253202	5253202	1	5.0000	ng/mL	----
PFBS_1	M	3.989	3550	1618880	2	0.0108	ng/mL	----
PFBS-13C	Auto	4.029	1621549	5253202	1	6.6412	ng/mL	----
PFBS-13C_IS	Auto	4.029	1618880	1618880	2	5.0000	ng/mL	----
PFHxS_1	Auto	4.411	8087	839046	3	0.0050	ng/mL	----
PFHxS-18O	Auto	4.410	839046	5253202	1	6.9430	ng/mL	----
PFHxS-18O_IS	Auto	4.410	839046	839046	3	5.0000	ng/mL	----
PFHpS_1	NI	----	----	839046	3	----	ng/mL	----
PFOS_1	M	4.750	1088	1081674	4	0.0073	ng/mL	----
PFOS-13C	Auto	4.750	1081674	5253202	1	6.1411	ng/mL	----
PFOS-13C_IS	Auto	4.750	1081674	1081674	4	5.0000	ng/mL	----
PFDS_1	NI	----	----	1081674	4	----	ng/mL	----
PFBA	M	3.430	3976	5672750	5	0.0045	ng/mL	----
PFBA-13C	Auto	3.427	5672750	5253202	1	5.9519	ng/mL	----
PFBA-13C_IS	Auto	3.427	5672750	5672750	5	5.0000	ng/mL	----
PFPeA	M	3.976	127828	2896738	6	0.0097	ng/mL	----
PFPeA-13C	Auto	3.976	2896738	5253202	1	5.9824	ng/mL	----
PFPeA-13C_IS	Auto	3.976	2896738	2896738	6	5.0000	ng/mL	----
PFHxA	M	4.228	21932	6235539	7	-0.0026	ng/mL	----
PFHxA-13C	Auto	4.231	6235539	5253202	1	5.3426	ng/mL	----
PFHxA-13C_IS	Auto	4.231	6235539	6235539	7	5.0000	ng/mL	----
PFHpA	M	4.402	22182	6119589	8	0.0001	ng/mL	----
PFHpA-13C	Auto	4.409	6119589	5253202	1	7.7523	ng/mL	----
PFHpA-13C_IS	Auto	4.409	6119589	6119589	8	5.0000	ng/mL	----
PFOA	Auto	4.582	22532	6737089	9	-0.0038	ng/mL	----
PFOA-13C	Auto	4.582	6737089	5253202	1	5.2976	ng/mL	----
PFOA-13C_IS	Auto	4.582	6737089	6737089	9	5.0000	ng/mL	----
PFNA	Auto	4.700	4260	4849727	10	-0.0198	ng/mL	----
PFNA-13C	Auto	4.759	4849727	5253202	1	5.4149	ng/mL	----
PFNA-13C_IS	Auto	4.759	4849727	4849727	10	5.0000	ng/mL	----
PFDA	M	4.932	4481	5115926	11	-0.0067	ng/mL	----
PFDA-13C	Auto	4.940	5115926	5253202	1	6.9054	ng/mL	----
PFDA-13C_IS	Auto	4.940	5115926	5115926	11	5.0000	ng/mL	----
PFUnA	Auto	5.117	11065	3978352	12	-0.0007	ng/mL	----
PFUnA-13C	Auto	5.121	3978352	5253202	1	4.7777	ng/mL	----
PFUnA-13C_IS	Auto	5.121	3978352	3978352	12	5.0000	ng/mL	----
PFDoA	Auto	5.301	7074	6272364	13	0.0353	ng/mL	----
PFDoA-13C	Auto	5.295	6272364	5253202	1	6.2071	ng/mL	----
PFDoA-13C_IS	Auto	5.295	6272364	6272364	13	5.0000	ng/mL	----
PFTrDA	M	5.455	4241	4194620	14	0.0009	ng/mL	----
PFTeDA	Auto	5.610	51807	4194620	14	0.0057	ng/mL	----
PFTeDA-13C	Auto	5.611	4194620	5253202	1	5.2294	ng/mL	----
PFTeDA-13C_IS	Auto	5.611	4194620	4194620	14	5.0000	ng/mL	----
FOSA	M	5.223	1423	2541800	16	0.0023	ng/mL	----
FOSA-13C	Auto	5.229	2541800	5253202	1	5.8079	ng/mL	----
FOSA-13C_IS	Auto	5.229	2541800	2541800	16	5.0000	ng/mL	----
N-MeFOSAA	ND(W/B)	----	----	422458	21	----	ng/mL	----
N-MeFOSAA-d3	Auto	5.034	422458	5253202	1	5.1669	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.034	422458	422458	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	397048	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.130	397048	5253202	1	5.3184	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.130	397048	397048	22	5.0000	ng/mL	----
6_2-FTS_1	M	4.604	156	395335	24	0.0019	ng/mL	----
6_2-FTS-13C	Auto	4.570	395335	5253202	1	5.0552	ng/mL	----
6_2-FTS-13C_IS	Auto	4.570	395335	395335	24	5.0000	ng/mL	----
8_2-FTS_1	ND(W/B)	----	----	258553	25	----	ng/mL	----
8_2-FTS-13C	Auto	4.936	258553	5253202	1	5.0608	ng/mL	----
8_2-FTS-13C_IS	Auto	4.936	258553	258553	25	5.0000	ng/mL	----

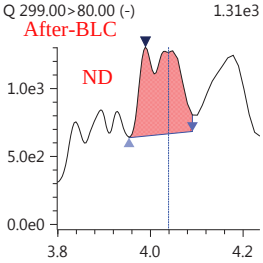
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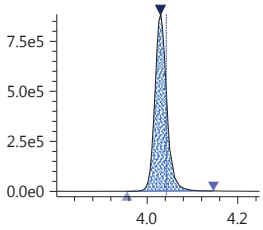
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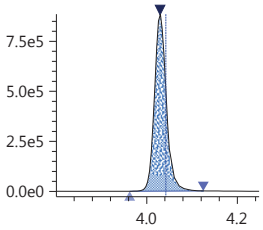
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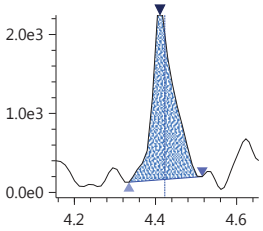
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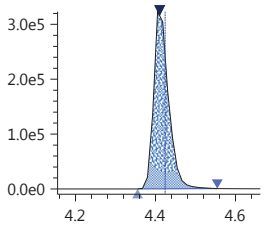
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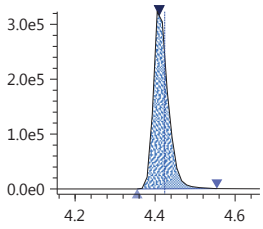
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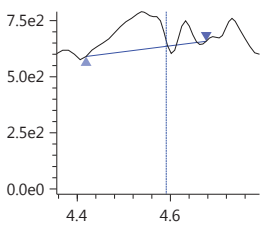
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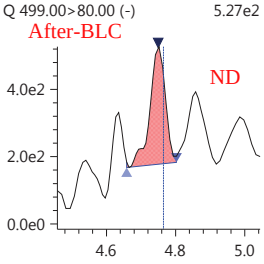
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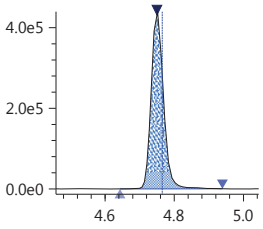
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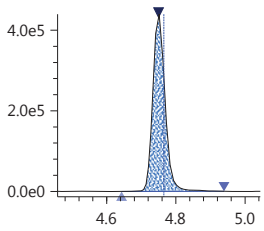
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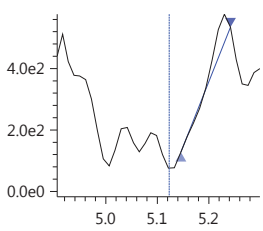
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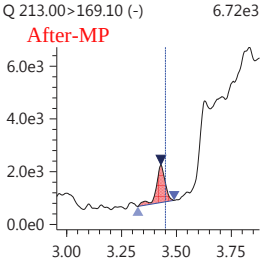
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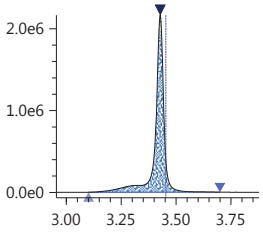
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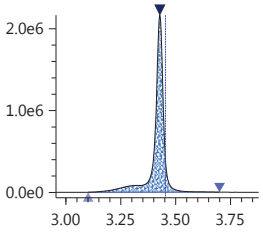
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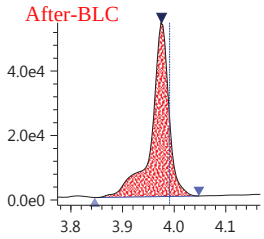
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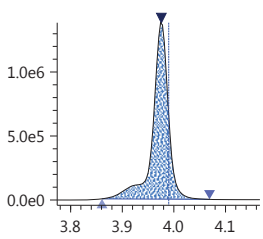
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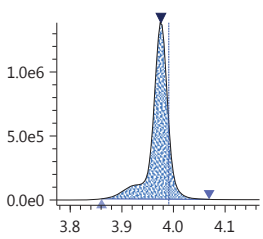
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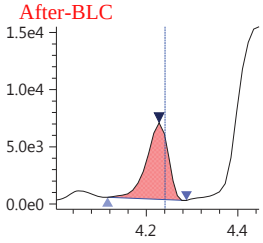
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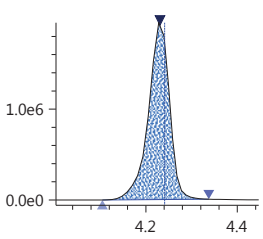
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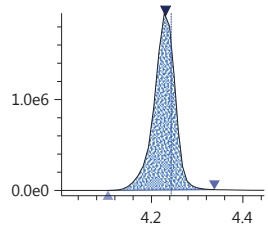
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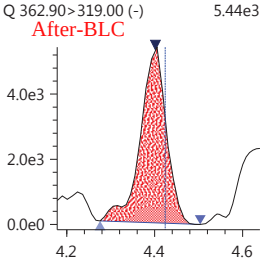
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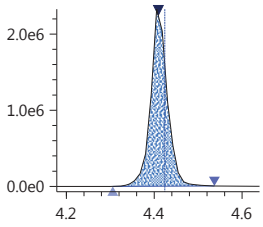
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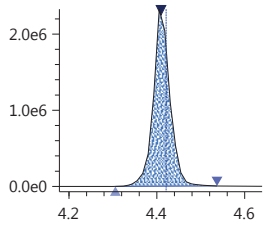
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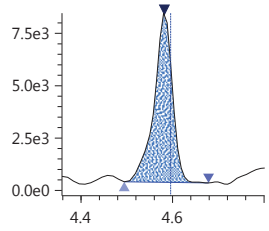
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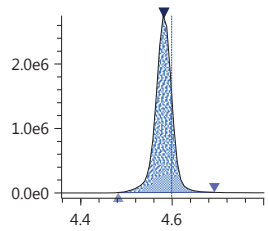
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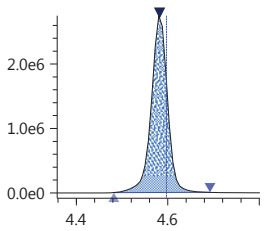
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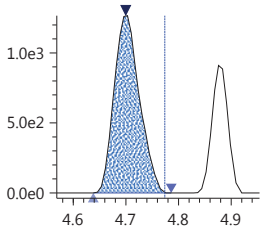
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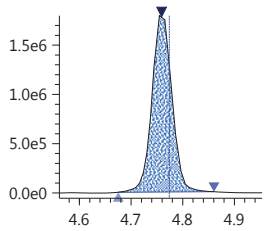
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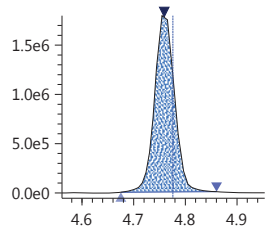
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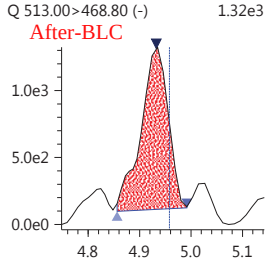
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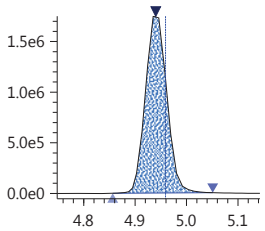
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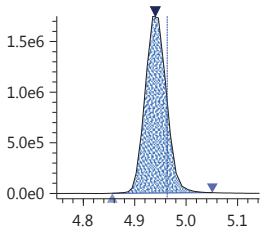
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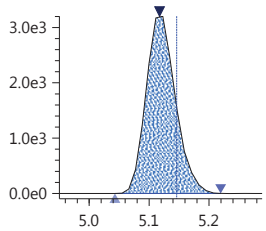
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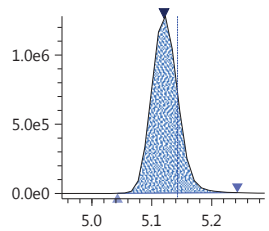
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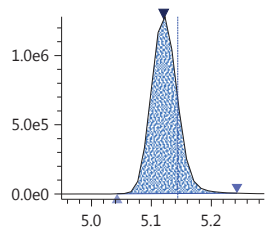
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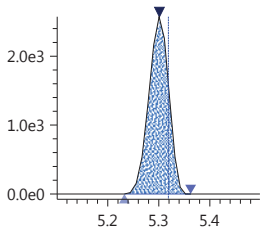
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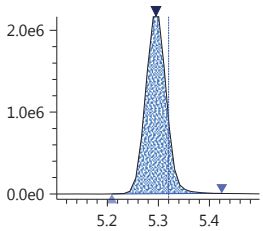
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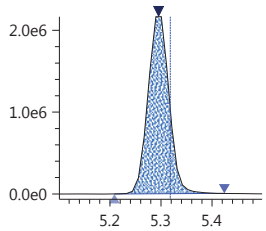
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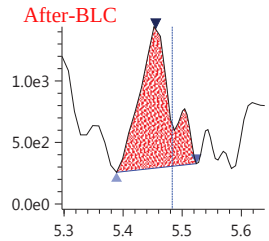
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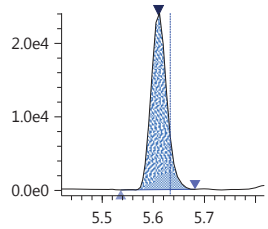
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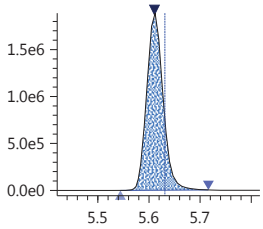
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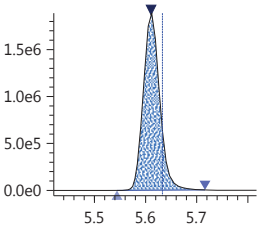
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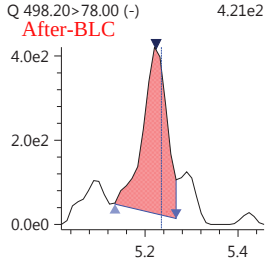
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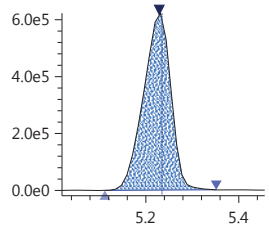
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RT 5.611 Area 4194620
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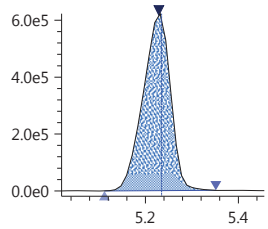
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Conc 0.0023
RT 5.223 Area 1423
Q 498.20>78.00 (-) 4.21e2



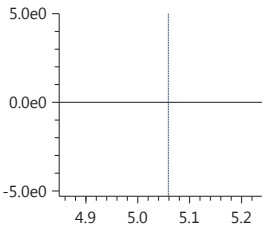
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Conc 5.8079
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Q 506.00>78.05 (-) 6.23e5



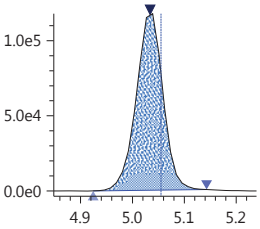
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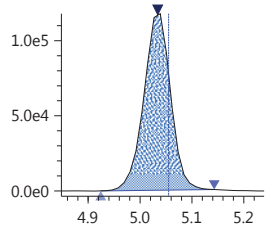
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Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



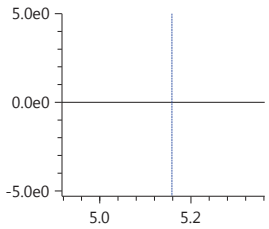
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Conc 5.1669
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Q 572.80>419.05 (-) 1.18e5



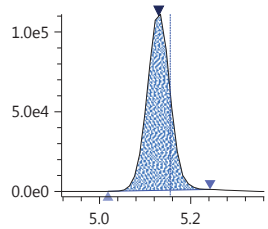
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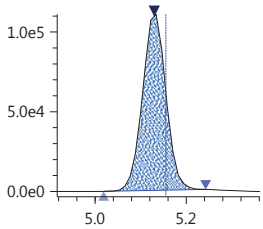
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



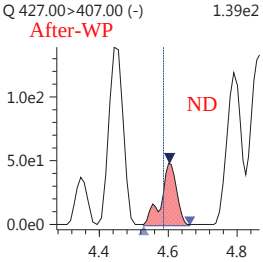
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Conc 5.3184
RT 5.130 Area 397048
Q 588.80>419.00 (-) 1.11e5



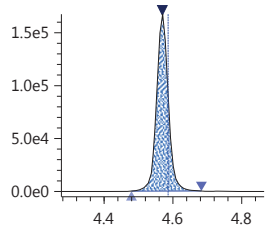
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ISTD 588.80>419.00 (-) 1.11e5



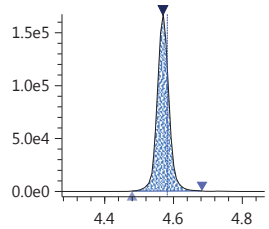
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Conc 0.0019
RT 4.604 Area 156
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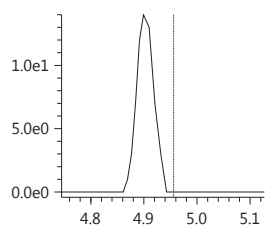
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Conc 5.0552
RT 4.570 Area 395335
Q 428.90>409.00 (-) 1.68e5



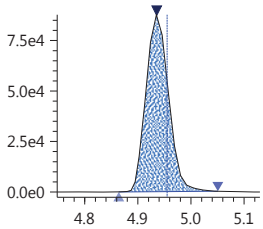
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ISTD 428.90>409.00 (-) 1.68e5



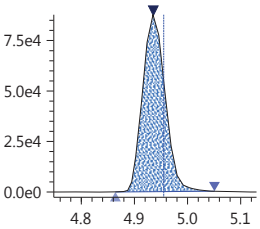
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 1.40e1



8_2-FTS-13C
Conc 5.0608
RT 4.936 Area 258553
Q 528.80>509.00 (-) 8.78e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.936 Area 258553
ISTD 528.80>509.00 (-) 8.78e4



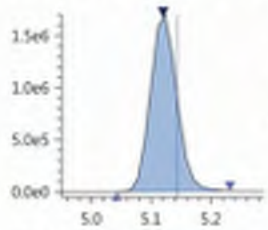
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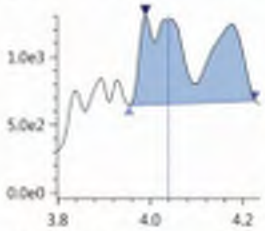
190917_225

Sample ID: IB
Date acquired: 9/19/2019 6:24:26 AM
Acquired by: System Administrator
Data File: I:\LCMS06\Data\190917_b9\190917_225.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

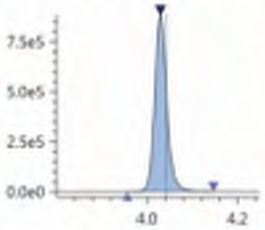
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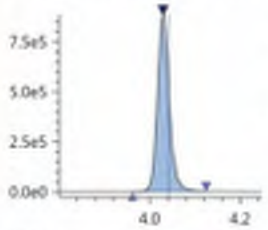
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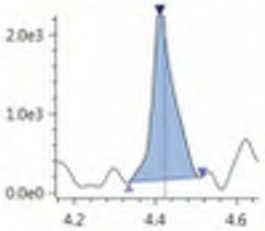
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Conc 6.6412
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Q 301.80>80.00 (-) 8.86e5



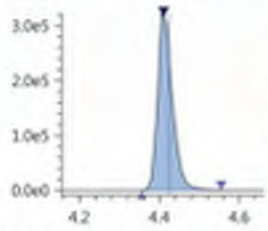
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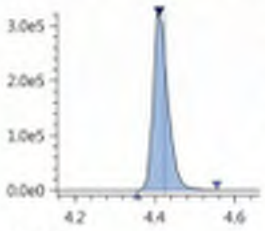
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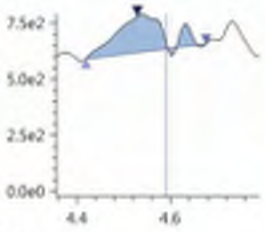
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Q 402.70>84.05 (-) 3.23e5



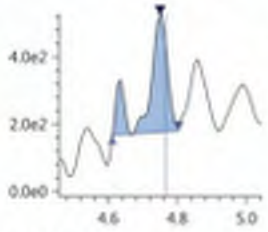
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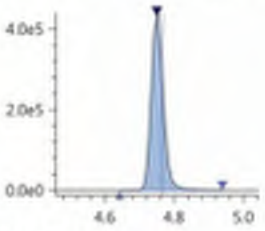
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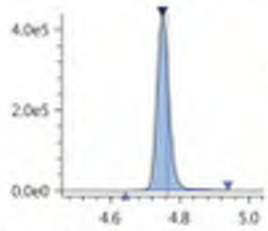
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Q 499.00>80.00 (-) 5.27e2



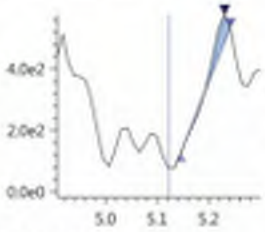
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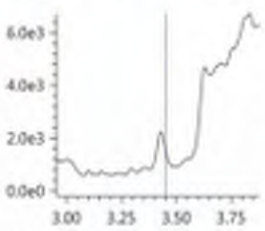
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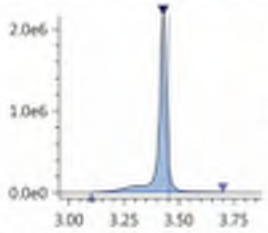
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RT 5.231 Area 148
Q 599.00>79.90 (-) 5.77e2



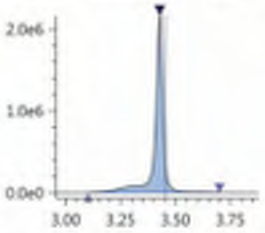
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Conc ----
RT ---- Area ----
Q 213.00>169.10 (-) 6.72e3



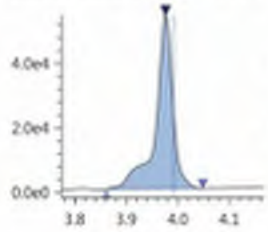
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RT 3.427 Area 5672750
Q 216.90>172.15 (-) 2.17e6



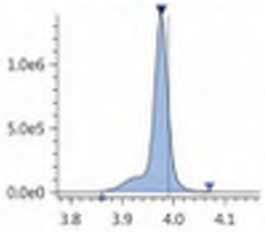
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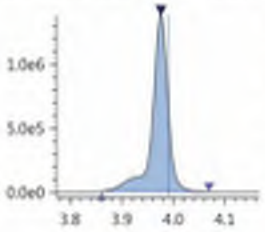
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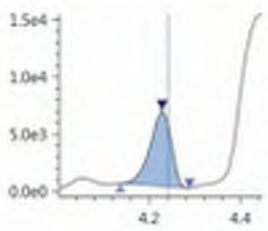
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Q 267.90>223.00 (-) 1.39e6



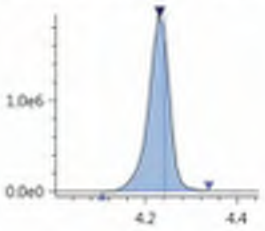
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Conc 5.0000
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ISTD 267.90>223.00 (-) 1.39e6



PFHxA
Conc -0.0033
RT 4.228 Area 21071
Q 313.00>269.00 (-) 1.55e4



PFHxA-13C
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RT 4.231 Area 6235539
Q 314.90>270.10 (-) 1.95e6

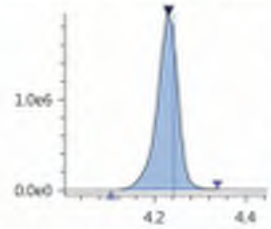


Manual Integration - Before

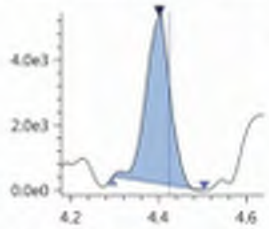
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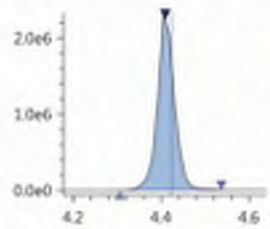
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ISTD 314.90>270.10 (-) 1.95e6



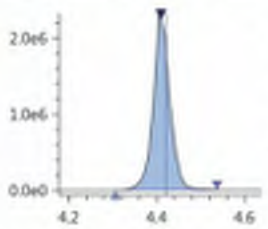
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RT 4.402 Area 19941
Q 362.90>319.00 (-) 5.44e3



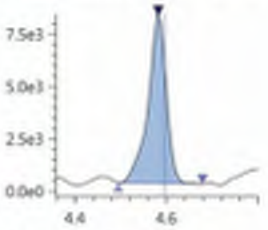
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Conc 7.7523
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Q 366.90>322.10 (-) 2.33e6



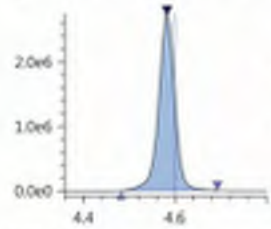
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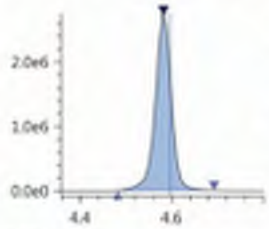
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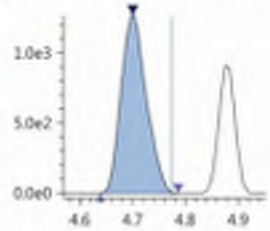
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Q 416.80>372.05 (-) 2.75e6



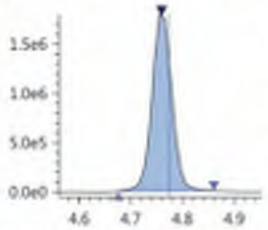
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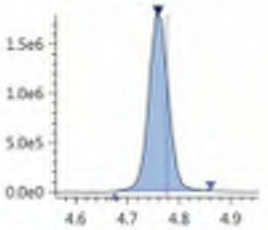
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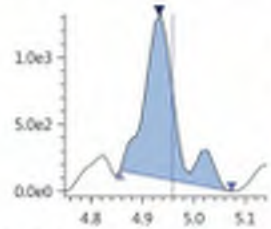
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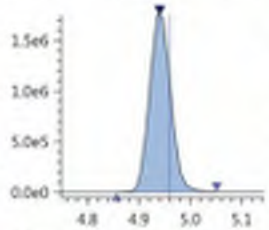
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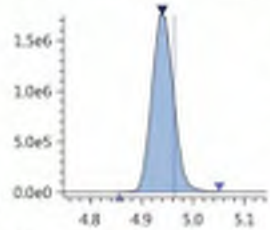
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Q 513.00>468.80 (-) 1.32e3



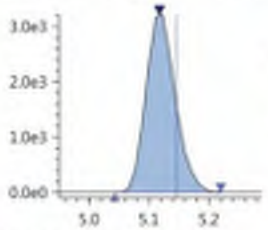
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RT 4.940 Area 5115926
Q 514.80>469.95 (-) 1.75e6



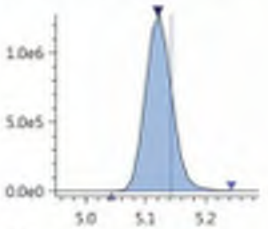
PFDA-13C_IS
Conc 5.0000
RT 4.940 Area 5115926
ISTD 514.80>469.95 (-) 1.75e6



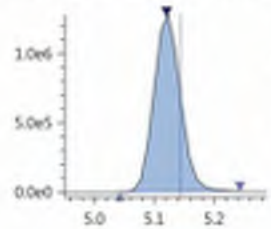
PFUnA
Conc -0.0007
RT 5.117 Area 11065
Q 563.00>518.90 (-) 3.21e3



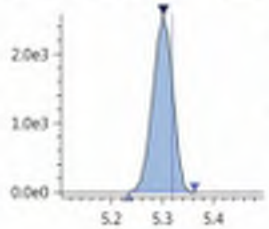
PFUnA-13C
Conc 4.7777
RT 5.121 Area 3978352
Q 564.80>519.95 (-) 1.28e6



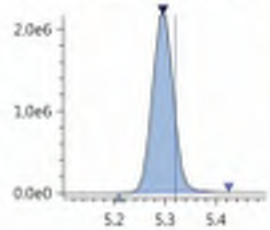
PFUnA-13C_IS
Conc 5.0000
RT 5.121 Area 3978352
ISTD 564.80>519.95 (-) 1.28e6



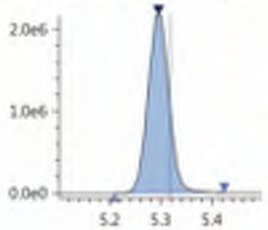
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Conc 0.0353
RT 5.301 Area 7074
Q 613.05>569.00 (-) 2.57e3



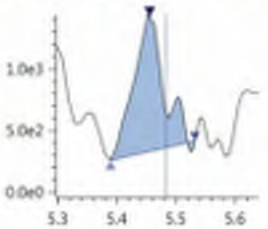
PFDoA-13C
Conc 6.2071
RT 5.295 Area 6272364
Q 614.80>569.95 (-) 2.17e6



PFDoA-13C_IS
Conc 5.0000
RT 5.295 Area 6272364
ISTD 614.80>569.95 (-) 2.17e6



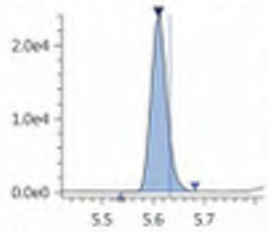
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Conc 0.0005
RT 5.455 Area 3898
Q 663.00>618.90 (-) 1.44e3



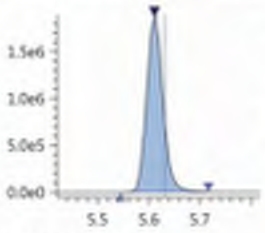
Insight Report

Printed at 9/19/2019 2:31:52 PM

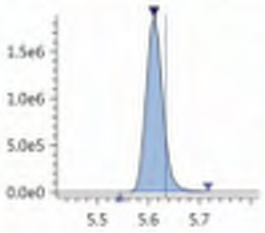
PFTeDA
Conc 0.0057
RT 5.610 Area 51807
Q 713.40>669.00 (-) 2.41e4



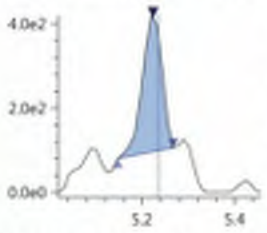
PFTeDA-13C
Conc 5.2294
RT 5.611 Area 4194620
Q 714.70>669.90 (-) 1.89e6



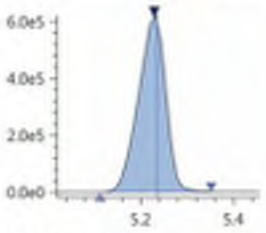
PFTeDA-13C_IS
Conc 5.0000
RT 5.611 Area 4194620
ISTD 714.70>669.90 (-) 1.89e6



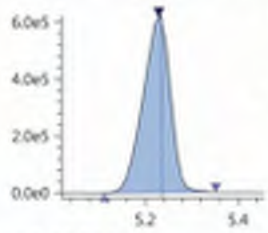
FOSA
Conc 0.0015
RT 5.223 Area 954
Q 498.20>78.00 (-) 4.21e2



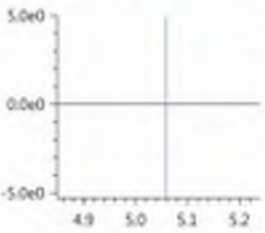
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Conc 5.8079
RT 5.229 Area 2541800
Q 506.00>78.05 (-) 6.23e5



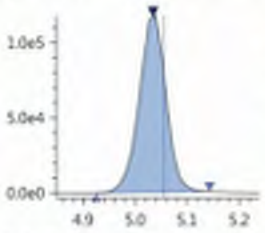
FOSA-13C_IS
Conc 5.0000
RT 5.229 Area 2541800
ISTD 506.00>78.05 (-) 6.23e5



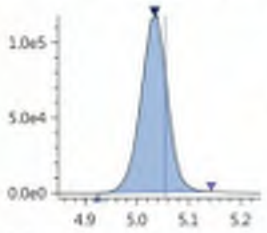
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



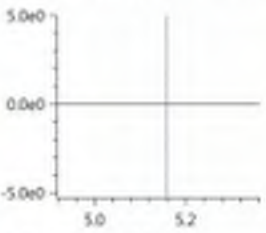
N-MeFOSAA-d3
Conc 5.1669
RT 5.034 Area 422458
Q 572.80>419.05 (-) 1.18e5



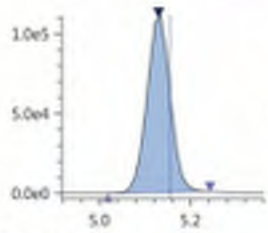
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Conc 5.0000
RT 5.034 Area 422458
ISTD 572.80>419.05 (-) 1.18e5



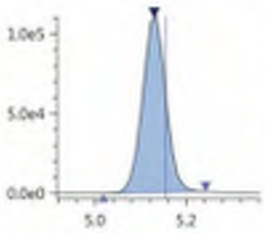
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



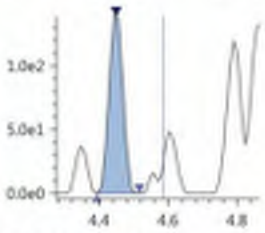
N-EtFOSAA-d5
Conc 5.3184
RT 5.130 Area 397048
Q 588.80>419.00 (-) 1.11e5



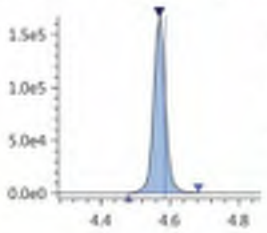
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.130 Area 397048
ISTD 588.80>419.00 (-) 1.11e5



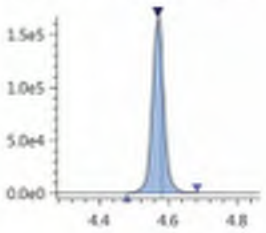
6_2-FTS_1
Conc 0.0048
RT 4.448 Area 399
Q 427.00>407.00 (-) 1.39e2



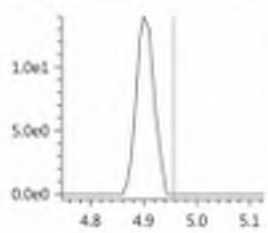
6_2-FTS-13C
Conc 5.0552
RT 4.570 Area 395335
Q 428.90>409.00 (-) 1.68e5



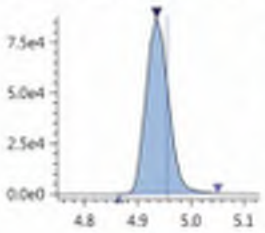
6_2-FTS-13C_IS
Conc 5.0000
RT 4.570 Area 395335
ISTD 428.90>409.00 (-) 1.68e5



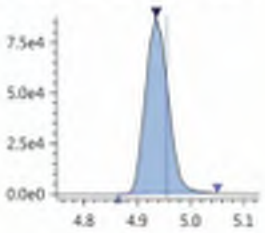
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 1.40e1



8_2-FTS-13C
Conc 5.0608
RT 4.936 Area 258553
Q 528.80>509.00 (-) 8.78e4



8_2-FTS-13C_IS
Conc 5.0000
RT 4.936 Area 258553
ISTD 528.80>509.00 (-) 8.78e4



Manual Integration - Before

1st EJD 09/24/19
2nd 09/25/19

Validation Report

Data File: J:\LCMS06\Data\190923_b2\190923_023
Lab ID: KQ1913623-02
RunType: CCB
Matrix: Water

Date Acquired: 9/23/19 23:57
Batch ID: 652554
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery		X
Internal Standards	X	
Surrogates	X	
Above Highest ICAL Level	X	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery	D5-EtFOSAA	131	70	130	Narrate high bias, ND

Primary Review: _____

Secondary Review: _____

1st EJD 09/24/19
2nd 09/25/19

Quantitation Report

Data File:	J:\LCMS06\Data\190923_b2\190923_023	**Instrument:**	K-LCMS-06
Acqu Date:	9/23/19 23:57	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ1913623-02	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	652554	**Prep Lot:**		**Report Group:**	KQ1913623
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900392
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.128	+0.00	7924519	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	% Rec	% Rec Criteria	Rpt?
13C3-PFBS	4.037	+0.01	1674042	4.3277	87	20 - 109	Y
18O2-PFHxS	4.422	+0.01	775220	3.5908	72	26 - 122	Y
13C4-PFOS	4.755	+0.01	845767	3.9298	79	25 - 121	Y
13C4-PFBA	3.443	+0.01	4786003	3.7826	76	27 - 124	Y
13C5-PFPeA	3.985	+0.01	3140333	3.7892	76	27 - 138	Y
13C2-PFHxA	4.238	+0.01	7105923	3.7167	74	28 - 132	Y
13C4-PFHpA	4.418	+0.01	5869199	3.6308	73	19 - 139	Y
13C4-PFOA	4.589	+0.01	8179997	4.2895	86	22 - 130	Y
13C5-PFNA	4.765	+0.00	5456397	3.7656	75	20 - 127	Y
13C2-PFDA	4.948	+0.01	5671040	4.4286	89	24 - 125	Y
13C2-PFUnDA	5.128	+0.00	5822722	5.1352	103	22 - 125	Y
13C2-PFDoDA	5.304	+0.01	9397021	5.0464	101	19 - 122	Y
13C2-PFTeDA	5.618	+0.01	11971317	4.9855	100	13 - 124	Y
13C8-FOSA	5.231	+0.01	3297199	4.5771	92	18 - 109	Y
D3-MeFOSAA	5.044	+0.01	1016110	4.8944	98	9 - 123	Y
D5-EtFOSAA	5.140	+0.00	853488	5.0525	101	12 - 126	Y
13C2-6:2 FTS	4.577	+0.01	543266	3.5857	72	10 - 226	Y
13C2-8:2 FTS	4.942	+0.00	445270	4.7634	95	10 - 202	Y

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.036	+0.01	597	0.0013	0.042	U	Y
Perfluorohexane sulfonic acid (PFHxS)	4.422	+0.02	5456	0.0252	0.81	U	Y

1st EJD 09/24/19

2nd 09/25/19

Data File:	J:\LCMS06\Data\190923_b2\190923_023	**Instrument:**	K-LCMS-06
Acqu Date:	9/23/19 23:57	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ1913623-02	**Raw Units:**	ng/mL

Target Compounds

Final Conc.Units: ng/L

Parameter Name	RT	RT Dev	Response	Solution Conc	Final Conc	Q	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	4.577	+0.00	123	0.0006	0.019	U	Y
Perfluorooctane sulfonic acid (PFOS)	4.756	+0.01	1162	0.0066	0.21	U	Y
Perfluorodecane sulfonic acid (PFDS)	0		0	0	0	U	Y
Perfluorobutanoic acid (PFBA)	3.447	+0.01	5380	0.0059	0.19	U	Y
Perfluoropentanoic acid (PFPeA)	3.985	+0.01	126351	0.0051	0.16	U	Y
Perfluorohexanoic acid (PFHxA)	4.235	+0.00	21973	0.0025	0.080	U	Y
Perfluoroheptanoic acid (PFHpA)	4.401	-0.01	18200	-0.0008	0	U	Y
Perfluorooctanoic acid (PFOA)	4.588	+0.01	28456	0.0052	0.17	U	Y
Perfluorononanoic acid (PFNA)	4.758	0.00	5298	-0.0120	0	U	Y
Perfluorodecanoic acid (PFDA)	4.942	+0.00	6801	0.0056	0.18	U	Y
Perfluoroundecanoic acid (PFUnDA)	5.129	+0.01	15801	-0.0068	0	U	Y
Perfluorododecanoic acid (PFDoDA)	5.303	+0.01	7069	-0.0037	0	U	Y
Perfluorotridecanoic acid (PFTrDA)	5.465	+0.01	4602	-0.0093	0	U	Y
Perfluorotetradecanoic acid (PFTeDA)	5.618	+0.01	150383	-0.0087	0	U	Y
Perfluorooctane sulfonamide (FOSA)	5.229	+0.01	3676	0.0049	0.16	U	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.025	-0.02	172	0.0010	0.032	U	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	0		0	0	0	U	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.578	+0.01	240	0.0024	0.077	U	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.947	+0.01	166	0.0025	0.080	U	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

Printed at 9/24/2019 3:09:06 PM

190923_023

Sample ID: IB
Date acquired: 9/23/2019 11:57:04 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190923_b2\190923_023.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.128	7924519	7924519	1	5.0000	ng/mL	----
PFBS_1	M	4.036	597	1674042	2	0.0013	ng/mL	----
PFBS-13C	Auto	4.037	1674042	7924519	1	4.3277	ng/mL	----
PFBS-13C_IS	Auto	4.037	1674042	1674042	2	5.0000	ng/mL	----
PFPeS	ND(W/B)	----	----	1674042	2	----	ng/mL	----
PFHxS_1	M	4.422	5456	775220	3	0.0252	ng/mL	----
PFHxS-18O	Auto	4.422	775220	7924519	1	3.5908	ng/mL	----
PFHxS-18O_IS	Auto	4.422	775220	775220	3	5.0000	ng/mL	----
PFHpS_1	M	4.577	123	775220	3	0.0006	ng/mL	----
PFOS_1	M	4.756	1162	845767	4	0.0066	ng/mL	----
PFOS-13C	Auto	4.755	845767	7924519	1	3.9298	ng/mL	----
PFOS-13C_IS	Auto	4.755	845767	845767	4	5.0000	ng/mL	----
PFNS	NI	----	----	845767	4	----	ng/mL	----
PFDS_1	ND(W/B)	----	----	845767	4	----	ng/mL	----
PFDOS	M	5.438	86	845767	4	0.0005	ng/mL	----
9Cl-PF3ONS	M	4.859	645	845767	4	0.0005	ng/mL	----
11Cl-PF3OUdS	M	5.203	697	845767	4	0.0009	ng/mL	----
PFBA	M	3.447	5380	4786003	5	0.0059	ng/mL	----
PFBA-13C	Auto	3.443	4786003	7924519	1	3.7826	ng/mL	----
PFBA-13C_IS	Auto	3.443	4786003	4786003	5	5.0000	ng/mL	----
PFPeA	M	3.985	126351	3140333	6	0.0051	ng/mL	----
PFPeA-13C	Auto	3.985	3140333	7924519	1	3.7892	ng/mL	----
PFPeA-13C_IS	Auto	3.985	3140333	3140333	6	5.0000	ng/mL	----
PFHxA	M	4.235	21973	7105923	7	0.0025	ng/mL	----
PFHxA-13C	Auto	4.238	7105923	7924519	1	3.7167	ng/mL	----
PFHxA-13C_IS	Auto	4.238	7105923	7105923	7	5.0000	ng/mL	----
PFHpA	Auto	4.401	18200	5869199	8	-0.0008	ng/mL	----
PFHpA-13C	Auto	4.418	5869199	7924519	1	3.6308	ng/mL	----
PFHpA-13C_IS	Auto	4.418	5869199	5869199	8	5.0000	ng/mL	----
PFOA	M	4.588	28456	8179997	9	0.0052	ng/mL	----
PFOA-13C	Auto	4.589	8179997	7924519	1	4.2895	ng/mL	----
PFOA-13C_IS	Auto	4.589	8179997	8179997	9	5.0000	ng/mL	----
PFNA	Auto	4.758	5298	5456397	10	-0.0120	ng/mL	----
PFNA-13C	Auto	4.765	5456397	7924519	1	3.7656	ng/mL	----
PFNA-13C_IS	Auto	4.765	5456397	5456397	10	5.0000	ng/mL	----
PFDA	Auto	4.942	6801	5671040	11	0.0056	ng/mL	----
PFDA-13C	Auto	4.948	5671040	7924519	1	4.4286	ng/mL	----
PFDA-13C_IS	Auto	4.948	5671040	5671040	11	5.0000	ng/mL	----
PFUnA	Auto	5.129	15801	5822722	12	-0.0068	ng/mL	----
PFUnA-13C	Auto	5.128	5822722	7924519	1	5.1352	ng/mL	----
PFUnA-13C_IS	Auto	5.128	5822722	5822722	12	5.0000	ng/mL	----
PFDoA	M	5.303	7069	9397021	13	-0.0037	ng/mL	----
PFDoA-13C	Auto	5.304	9397021	7924519	1	5.0464	ng/mL	----
PFDoA-13C_IS	Auto	5.304	9397021	9397021	13	5.0000	ng/mL	----
PFTrDA	M	5.465	4602	11971317	14	-0.0093	ng/mL	----
PFTeDA	Auto	5.618	150383	11971317	14	-0.0087	ng/mL	----
PFTeDA-13C	Auto	5.618	11971317	7924519	1	4.9855	ng/mL	----
PFTeDA-13C_IS	Auto	5.618	11971317	11971317	14	5.0000	ng/mL	----
PFHxDA	Auto	5.948	93148	10279047	15	-0.0031	ng/mL	----
13C-PFHxDA	Auto	5.948	10279047	7924519	1	4.6431	ng/mL	----
13C-PFHxDA_IS	Auto	5.948	10279047	10279047	15	5.0000	ng/mL	----
PFODA	M	6.461	4456	10279047	15	0.0037	ng/mL	----
FOSA	Auto	5.229	3676	3297199	16	0.0049	ng/mL	----
FOSA-13C	Auto	5.231	3297199	7924519	1	4.5771	ng/mL	----
FOSA-13C_IS	Auto	5.231	3297199	3297199	16	5.0000	ng/mL	----
N-MeFOSA	M	5.618	1543	854193	17	0.0062	ng/mL	----
N-MeFOSA-d3	Auto	5.614	854193	7924519	1	4.0188	ng/mL	----
N-MeFOSA-d3_IS	Auto	5.614	854193	854193	17	5.0000	ng/mL	----
N-EtFOSA	M	5.754	4316	1183176	18	0.1016	ng/mL	----
N-EtFOSA-d9	Auto	5.748	1183176	7924519	1	3.8634	ng/mL	----
N-EtFOSA-d9_IS	Auto	5.748	1183176	1183176	18	5.0000	ng/mL	----
N-MeFOSE	ND(W/B)	----	----	935603	19	----	ng/mL	----
N-MeFOSE-d7	Auto	5.583	935603	7924519	1	4.1912	ng/mL	----
N-MeFOSE-d7_IS	Auto	5.583	935603	935603	19	5.0000	ng/mL	----
N-EtFOSE	Auto	5.719	3670	664669	20	0.0129	ng/mL	----
N-EtFOSE-d9	Auto	5.709	664669	7924519	1	4.1146	ng/mL	----
N-EtFOSE-d9_IS	Auto	5.709	664669	664669	20	5.0000	ng/mL	----
N-MeFOSAA	M	5.025	172	1016110	21	0.0010	ng/mL	----

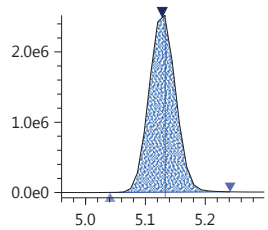
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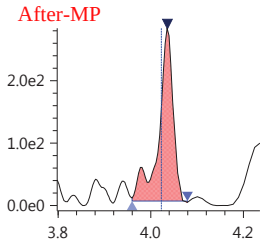
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.044	1016110	7924519	1	4.8944	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.044	1016110	1016110	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	853488	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.140	853488	7924519	1	5.0525	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.140	853488	853488	22	5.0000	ng/mL	----
4_2-FTS_1	Auto	4.203	439	596008	23	0.0039	ng/mL	----
4_2-FTS-13C	Auto	4.209	596008	7924519	1	4.1929	ng/mL	----
4_2-FTS-13C_IS	Auto	4.209	596008	596008	23	5.0000	ng/mL	----
6_2-FTS_1	M	4.578	240	543266	24	0.0024	ng/mL	----
6_2-FTS-13C	Auto	4.577	543266	7924519	1	3.5857	ng/mL	----
6_2-FTS-13C_IS	Auto	4.577	543266	543266	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.947	166	445270	25	0.0025	ng/mL	----
8_2-FTS-13C	Auto	4.942	445270	7924519	1	4.7634	ng/mL	----
8_2-FTS-13C_IS	Auto	4.942	445270	445270	25	5.0000	ng/mL	----
10_2-FtS_1	M	5.311	88	445270	25	0.0012	ng/mL	----
HPFO_DA	M	4.302	433	2427144	26	-0.0638	ng/mL	----
HFPO_DA-13C	Auto	4.304	2427144	7924519	1	5.0816	ng/mL	----
HFPO_DA-13C_IS	Auto	4.304	2427144	2427144	26	5.0000	ng/mL	----
ADONA	ND(W/B)	----	----	2427144	26	----	ng/mL	----

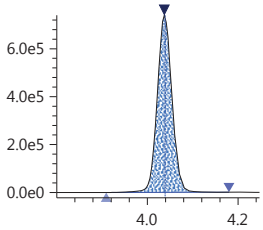
13C7-PFUnDA_IS
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RT 5.128 Area 7924519
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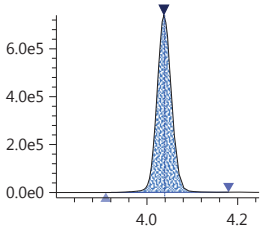
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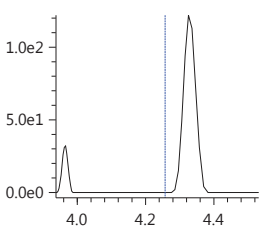
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RT 4.037 Area 1674042
Q 301.80>80.00 (-) 7.40e5



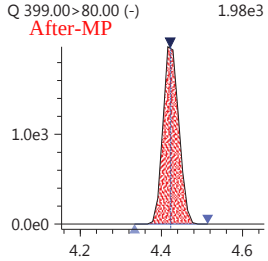
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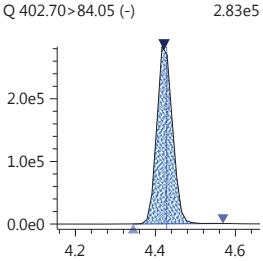
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Conc ----
RT ---- Area ----
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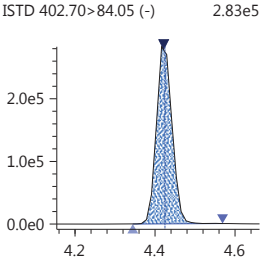
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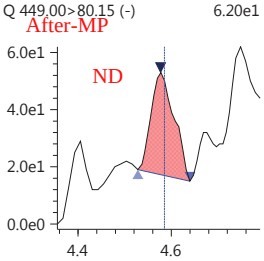
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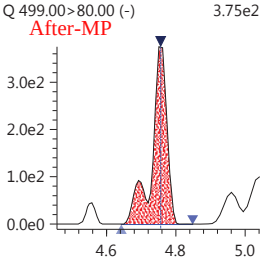
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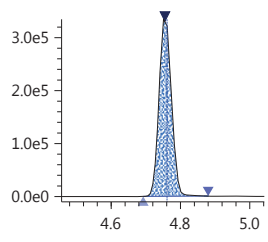
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RT 4.577 Area 123
Q 449.00>80.15 (-) 6.20e1



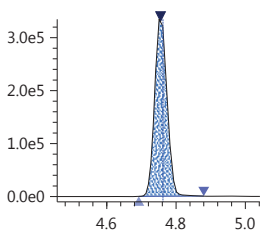
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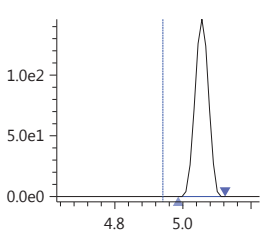
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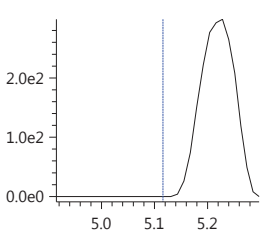
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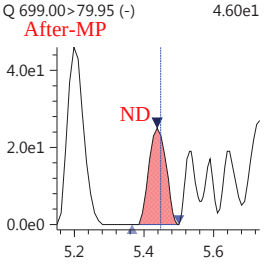
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Conc ----
RT ---- Area ----
Q 549.00>99.00 (-) 1.46e2



PFDS_1
Conc ----
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Q 599.00>79.90 (-) 2.99e2



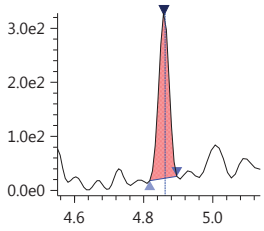
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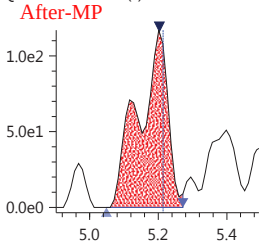
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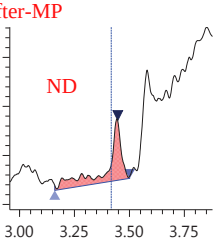
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After-MP



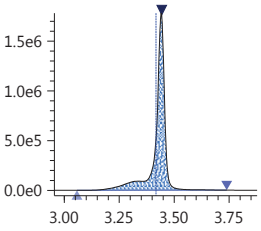
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After-MP



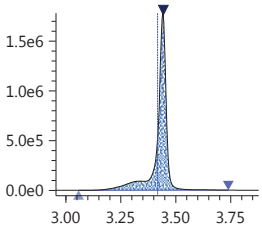
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After-MP
ND



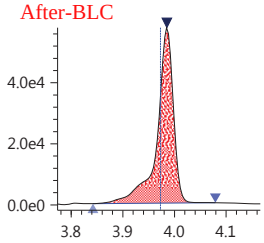
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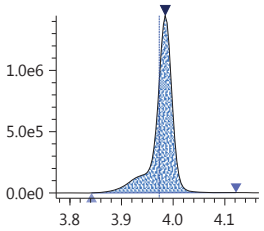
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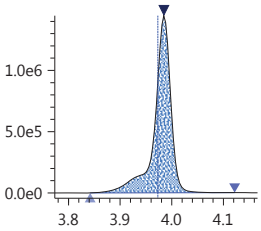
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After-BLC



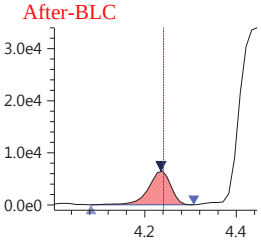
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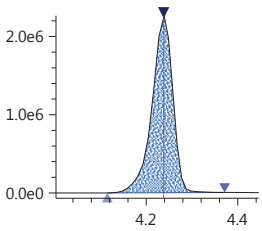
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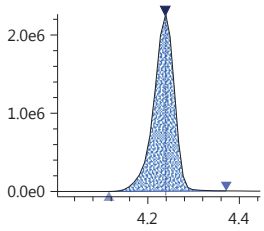
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After-BLC



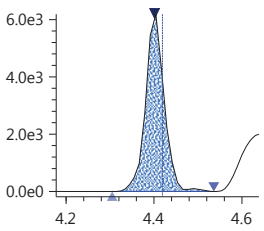
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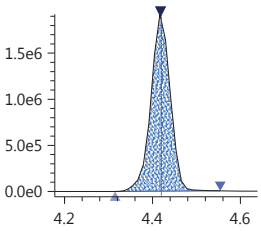
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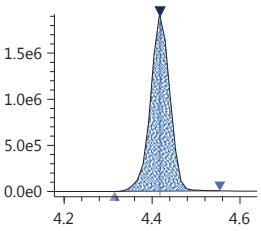
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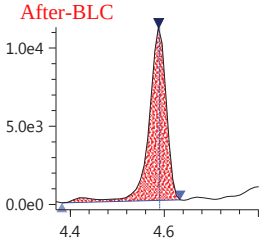
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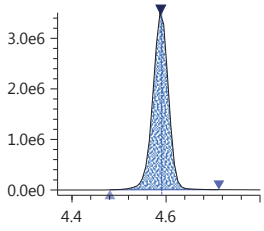
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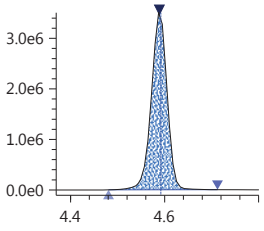
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After-BLC



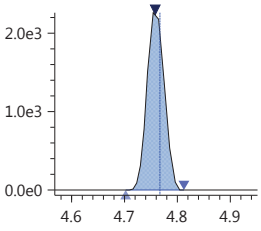
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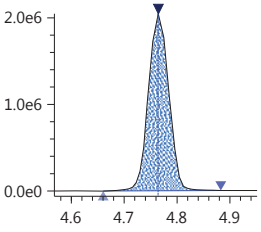
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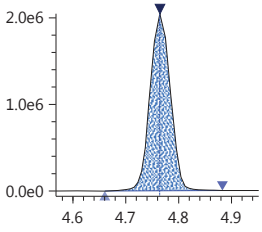
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Q 467.80>423.00 (-) 2.05e6



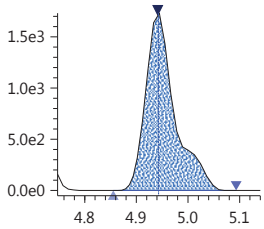
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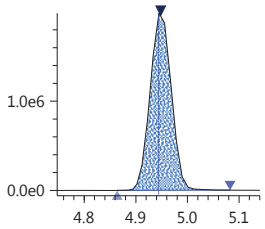
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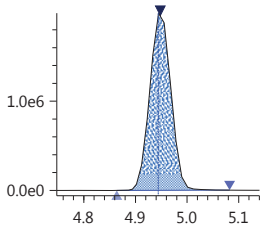
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Q 513.00>468.80 (-) 1.73e3



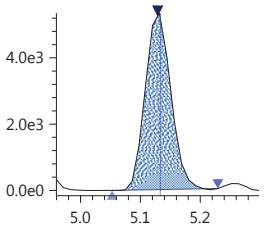
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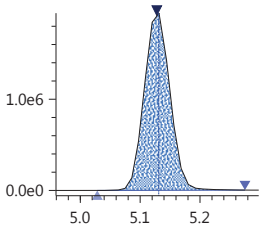
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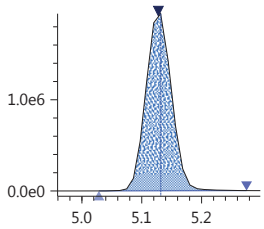
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Q 563.00>518.90 (-) 5.35e3



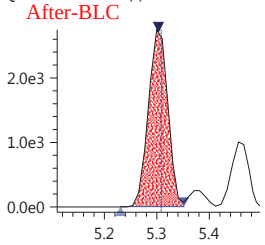
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Q 564.80>519.95 (-) 1.94e6



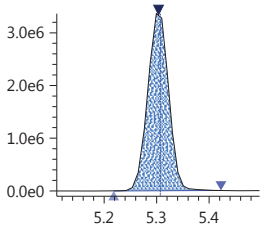
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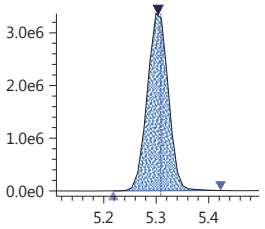
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Q 613.05>569.00 (-) 2.75e3



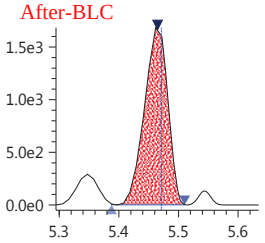
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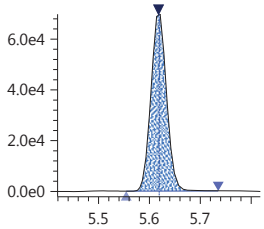
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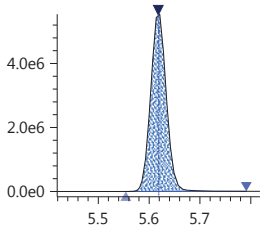
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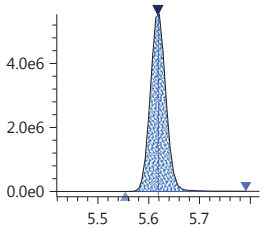
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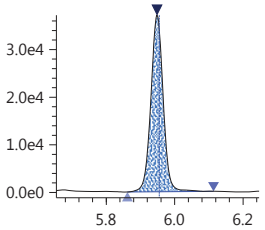
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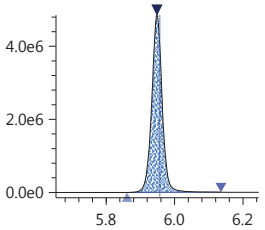
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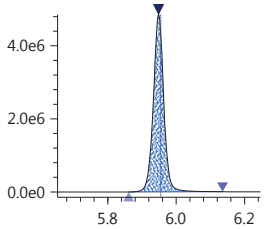
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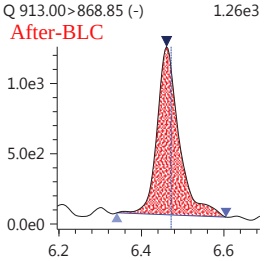
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Q 815.00>770.05 (-) 4.85e6



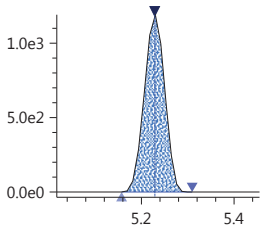
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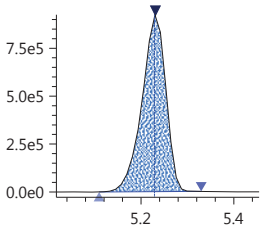
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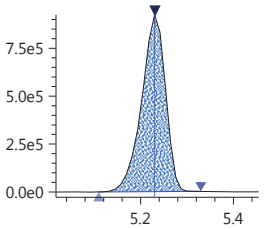
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Conc 0.0049
RT 5.229 Area 3676
Q 498.20>78.00 (-) 1.19e3



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Q 506.00>78.05 (-) 9.25e5



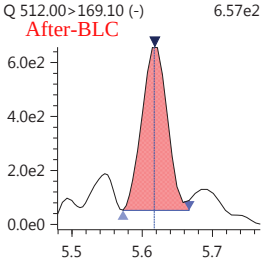
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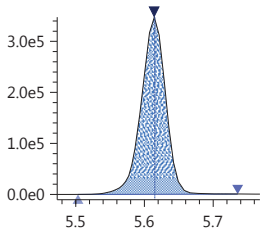
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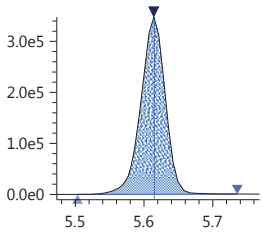
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RT 5.618 Area 1543
Q 512.00>169.10 (-) 6.57e2



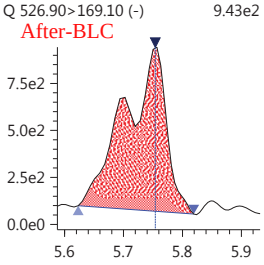
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Q 514.90>168.90 (-) 3.47e5



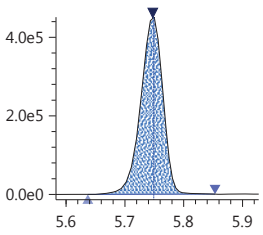
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ISTD 514.90>168.90 (-) 3.47e5



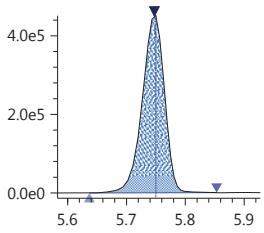
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Conc 0.1016
RT 5.754 Area 4316
Q 526.90>169.10 (-) 9.43e2



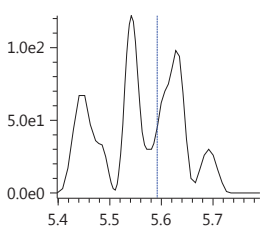
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Q 530.90>169.15 (-) 4.51e5



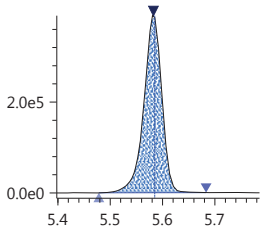
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ISTD 530.90>169.15 (-) 4.51e5



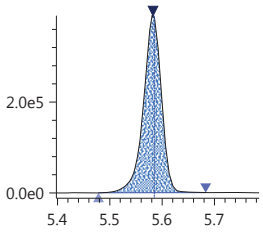
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Conc ----
RT ---- Area ----
Q 616.00>59.00 (-) 1.22e2



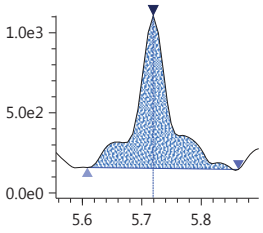
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RT 5.583 Area 935603
Q 622.70>59.10 (-) 3.90e5



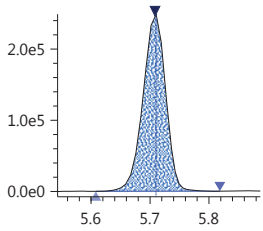
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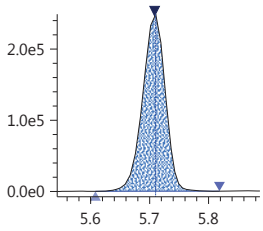
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RT 5.719 Area 3670
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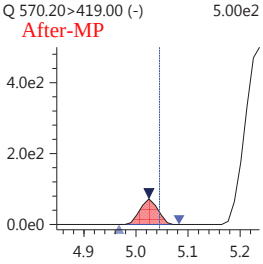
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Q 638.70>59.10 (-) 2.49e5



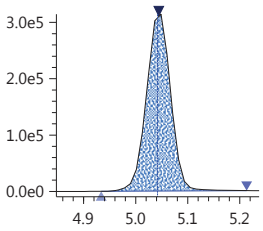
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ISTD 638.70>59.10 (-) 2.49e5



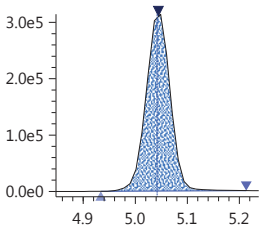
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Conc 0.0010
RT 5.025 Area 172
Q 570.20>419.00 (-) 5.00e2



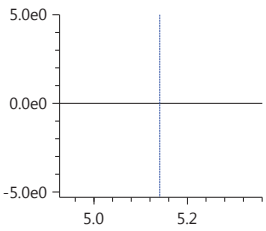
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Conc 4.8944
RT 5.044 Area 1016110
Q 572.80>419.05 (-) 3.15e5



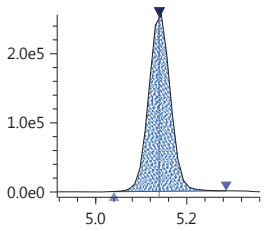
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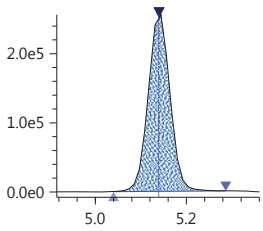
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



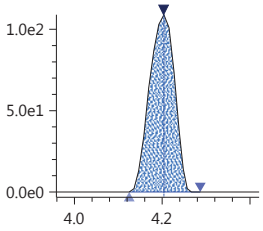
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Conc 5.0525
RT 5.140 Area 853488
Q 588.80>419.00 (-) 2.56e5



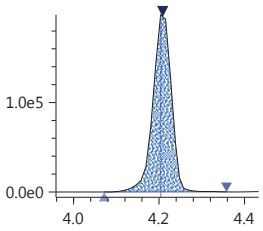
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Conc 5.0000
RT 5.140 Area 853488
ISTD 588.80>419.00 (-) 2.56e5



4_2-FTS_1
Conc 0.0039
RT 4.203 Area 439
Q 327.00>307.05 (-) 1.09e2



4_2-FTS-13C
Conc 4.1929
RT 4.209 Area 596008
Q 328.80>309.05 (-) 1.98e5

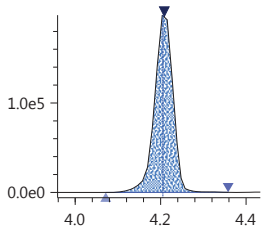


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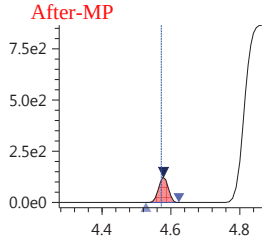
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RT 4.209 Area 596008
ISTD 328.80>309.05 (-) 1.98e5



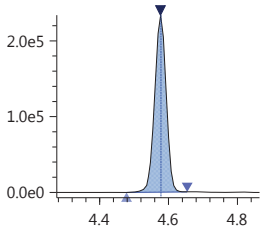
6_2-FTS_1

Conc 0.0024
RT 4.578 Area 240
Q 427.00>407.00 (-) 8.66e2



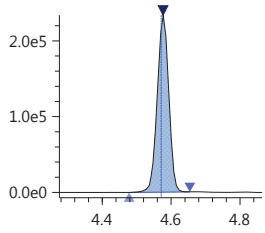
6_2-FTS-13C

Conc 3.5857
RT 4.577 Area 543266
Q 428.90>409.00 (-) 2.34e5



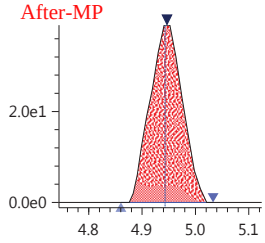
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Conc 5.0000
RT 4.577 Area 543266
ISTD 428.90>409.00 (-) 2.34e5



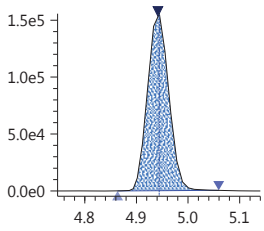
8_2-FTS_1

Conc 0.0025
RT 4.947 Area 166
Q 527.10>506.90 (-) 3.90e1



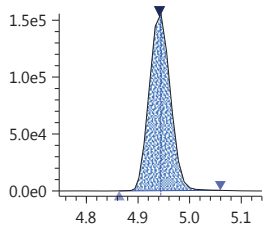
8_2-FTS-13C

Conc 4.7634
RT 4.942 Area 445270
Q 528.80>509.00 (-) 1.56e5



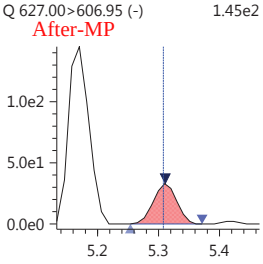
8_2-FTS-13C_IS

Conc 5.0000
RT 4.942 Area 445270
ISTD 528.80>509.00 (-) 1.56e5



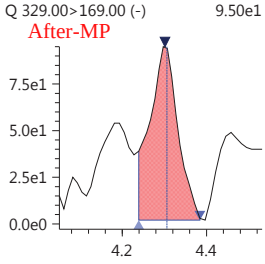
10_2-FtS_1

Conc 0.0012
RT 5.311 Area 88
Q 627.00>606.95 (-) 1.45e2



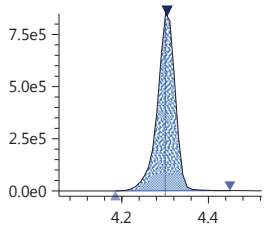
HPFO_DA

Conc -0.0638
RT 4.302 Area 433
Q 329.00>169.00 (-) 9.50e1



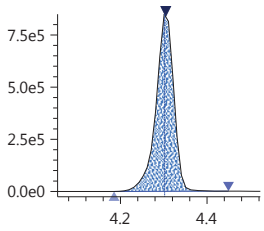
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Conc 5.0816
RT 4.304 Area 2427144
Q 332.00>286.80 (-) 8.50e5



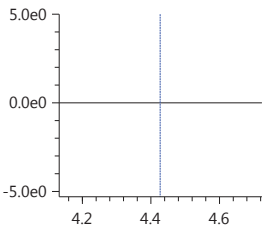
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Conc 5.0000
RT 4.304 Area 2427144
ISTD 332.00>286.80 (-) 8.50e5



ADONA

Conc ----
RT ---- Area ----
Q 377.00>251.00 (-) 0.00e0



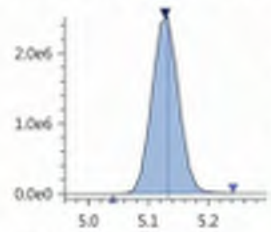
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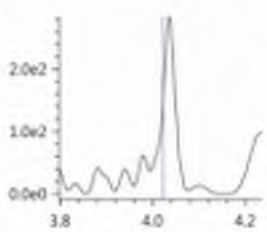
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Date acquired: 9/23/2019 11:57:04 PM
Acquired by: System Administrator
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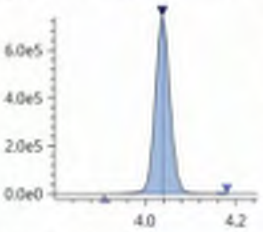
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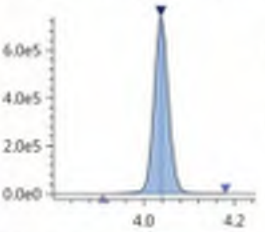
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Conc -----
RT ----- Area -----
Q 299.00>80.00 (-) 2.84e2



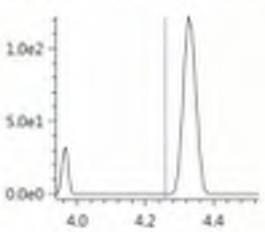
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RT 4.037 Area 1674042
Q 301.80>80.00 (-) 7.40e5



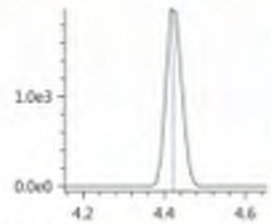
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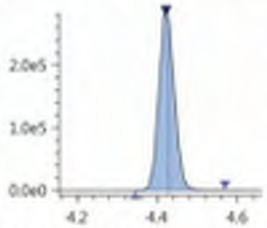
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Conc -----
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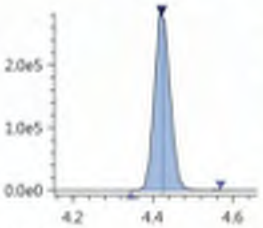
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RT ----- Area -----
Q 399.00>80.00 (-) 1.98e3



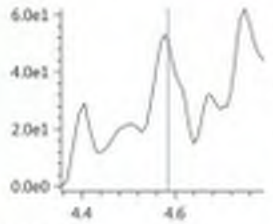
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Q 402.70>84.05 (-) 2.83e5



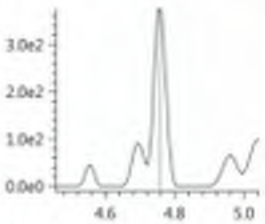
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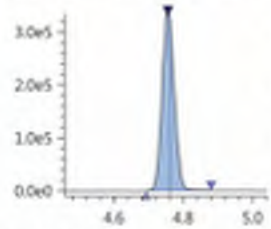
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RT ----- Area -----
Q 449.00>80.15 (-) 6.20e1



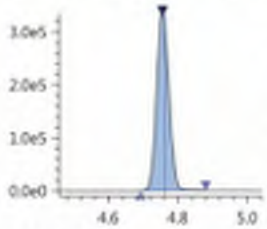
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Q 499.00>80.00 (-) 3.75e2



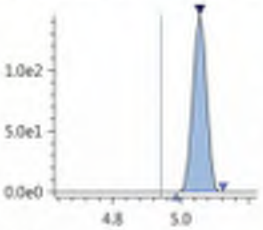
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Q 502.80>80.05 (-) 3.35e5



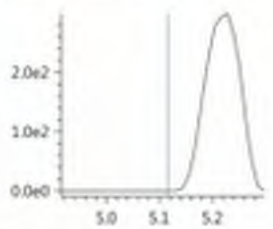
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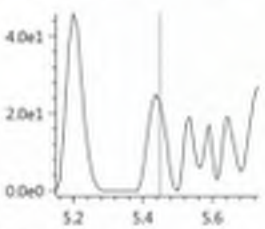
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Q 549.00>99.00 (-) 1.46e2



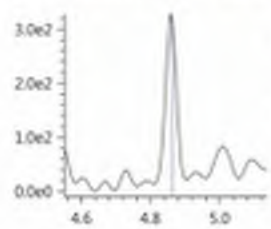
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Conc -----
RT ----- Area -----
Q 599.00>79.90 (-) 2.99e2



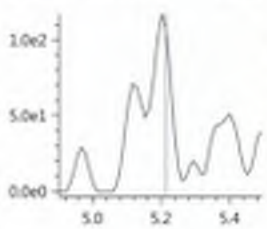
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RT ----- Area -----
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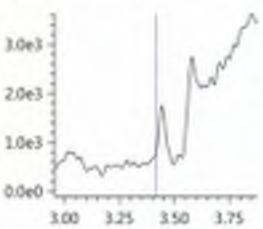
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RT ----- Area -----
Q 531.00>351.00 (-) 3.28e2



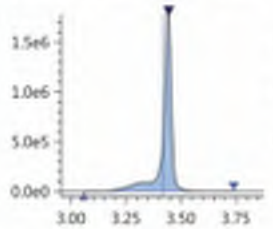
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Conc -----
RT ----- Area -----
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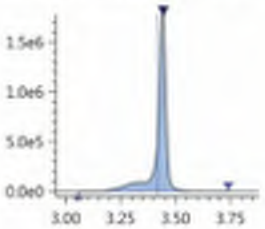
PFBA
Conc -----
RT ----- Area -----
Q 213.00>169.10 (-) 3.62e3



PFBA-13C
Conc 3.7826
RT 3.443 Area 4786003
Q 216.90>172.15 (-) 1.78e6



PFBA-13C_IS
Conc 5.0000
RT 3.443 Area 4786003
ISTD 216.90>172.15 (-) 1.78e6

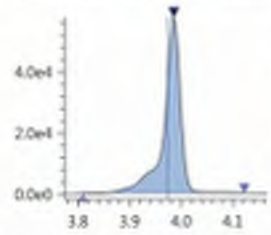


Manual Integration - Before

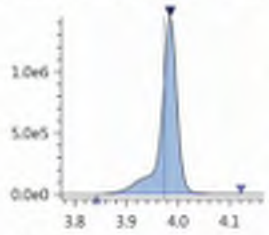
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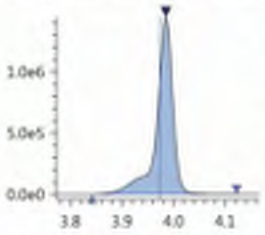
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RT 3.985 Area 126707
Q 263.05>219.10 (-) 5.81e4



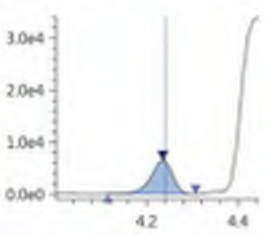
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Q 267.90>223.00 (-) 1.45e6



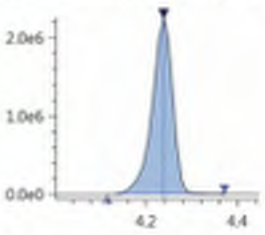
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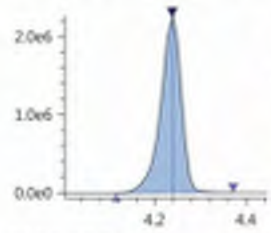
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Q 313.00>269.00 (-) 3.40e4



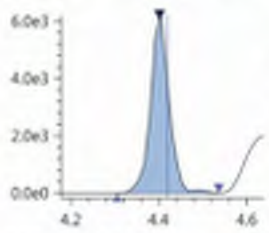
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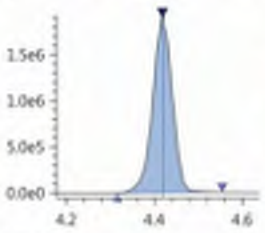
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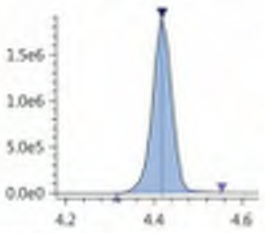
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Q 362.90>319.00 (-) 6.19e3



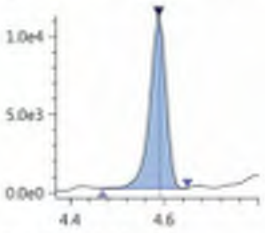
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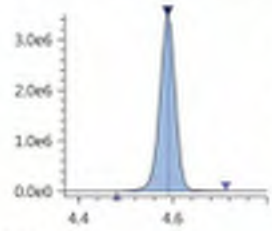
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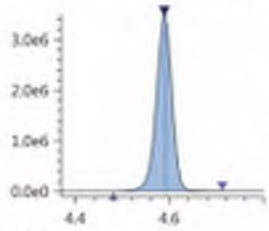
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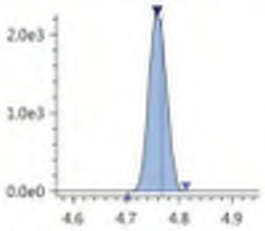
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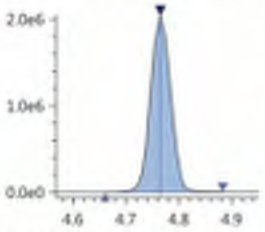
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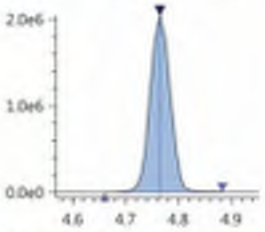
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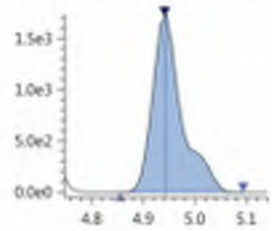
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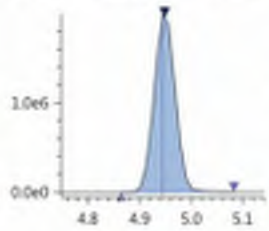
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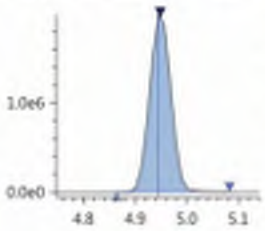
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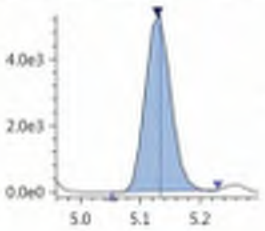
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Q 514.80>469.95 (-) 1.99e6



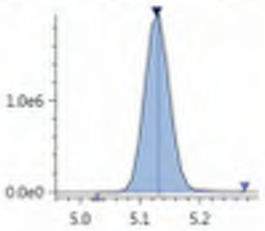
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Q 563.00>518.90 (-) 5.35e3



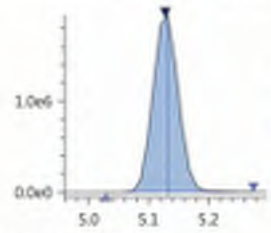
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Q 564.80>519.95 (-) 1.94e6



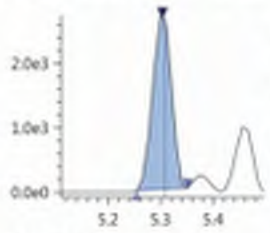
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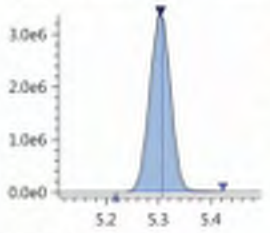
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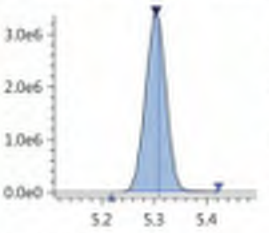
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Q 613.05>569.00 (-) 2.75e3



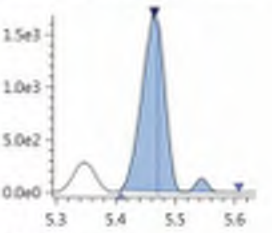
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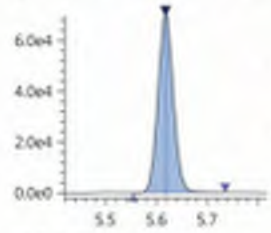
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ISTD 614.80>569.95 (-) 3.36e6



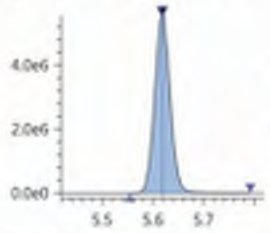
PFTrDA
Conc -0.0092
RT 5.465 Area 4687
Q 663.00>618.90 (-) 1.68e3



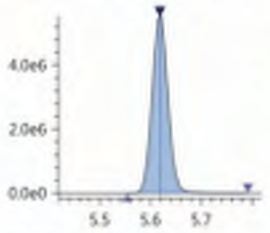
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Q 713.40>669.00 (-) 6.98e4



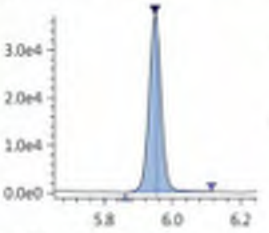
PFTeDA-13C
Conc 4.9855
RT 5.618 Area 11971317
Q 714.70>669.90 (-) 5.54e6



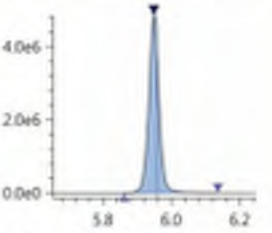
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Conc 5.0000
RT 5.618 Area 11971317
ISTD 714.70>669.90 (-) 5.54e6



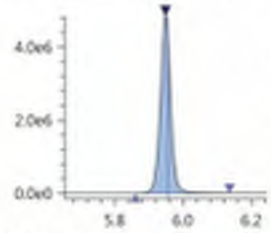
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Conc -0.0031
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Q 813.00>769.05 (-) 3.72e4



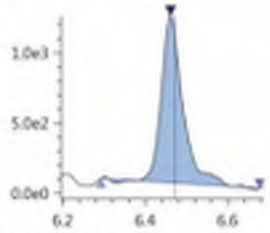
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Conc 4.6431
RT 5.948 Area 10279047
Q 815.00>770.05 (-) 4.85e6



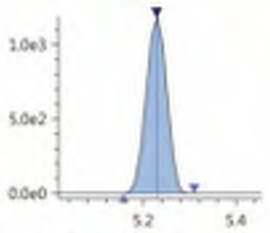
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ISTD 815.00>770.05 (-) 4.85e6



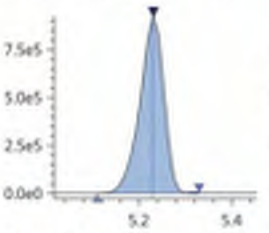
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Conc 0.0035
RT 6.461 Area 4261
Q 913.00>868.85 (-) 1.26e3



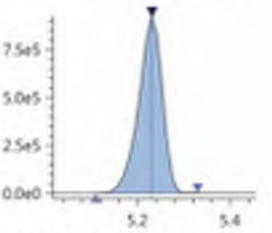
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Conc 0.0049
RT 5.229 Area 3676
Q 498.20>78.00 (-) 1.19e3



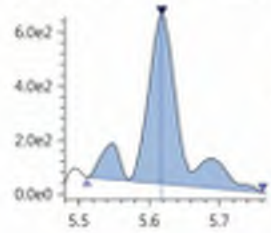
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Conc 4.5771
RT 5.231 Area 3297199
Q 506.00>78.05 (-) 9.25e5



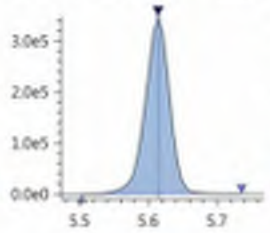
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Conc 5.0000
RT 5.231 Area 3297199
ISTD 506.00>78.05 (-) 9.25e5



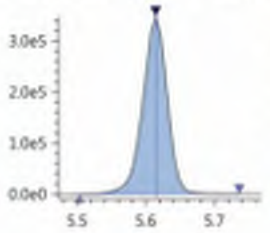
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Conc 0.0088
RT 5.614 Area 2197
Q 512.00>169.10 (-) 6.57e2



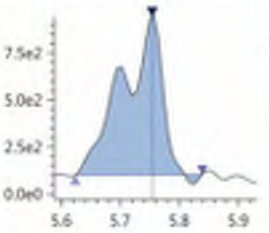
N-MeFOSA-d3
Conc 4.0188
RT 5.614 Area 854193
Q 514.90>168.90 (-) 3.47e5



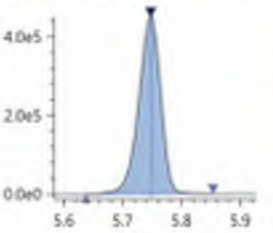
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.614 Area 854193
ISTD 514.90>168.90 (-) 3.47e5



N-EtFOSA
Conc 0.0941
RT 5.754 Area 3996
Q 526.90>169.10 (-) 9.43e2



N-EtFOSA-d9
Conc 3.8634
RT 5.748 Area 1183176
Q 530.90>169.15 (-) 4.51e5

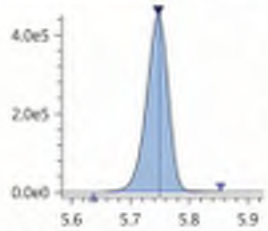


Manual Integration - Before

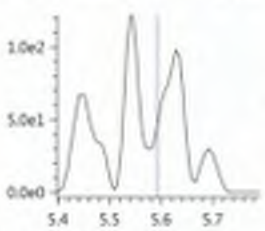
Insight Report

Printed at 9/24/2019 2:58:55 PM

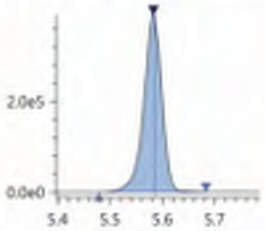
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.748 Area 1183176
ISTD 530.90>169.15 (-) 4.51e5



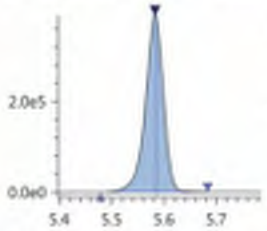
N-MeFOSE
Conc ----
RT ---- Area ----
Q 616.00>59.00 (-) 1.22e2



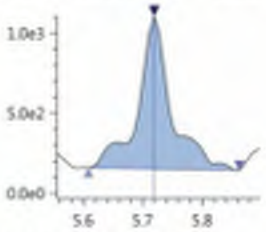
N-MeFOSE-d7
Conc 4.1912
RT 5.583 Area 935603
Q 622.70>59.10 (-) 3.90e5



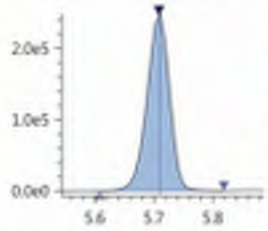
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.583 Area 935603
ISTD 622.70>59.10 (-) 3.90e5



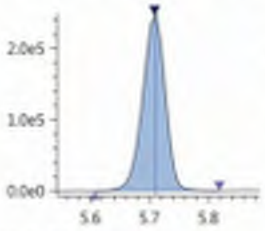
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Conc 0.0129
RT 5.719 Area 3670
Q 630.00>58.90 (-) 1.11e3



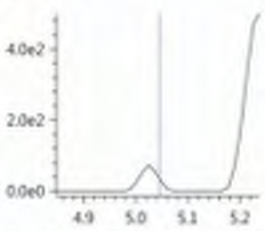
N-EtFOSE-d9
Conc 4.1146
RT 5.709 Area 664669
Q 638.70>59.10 (-) 2.49e5



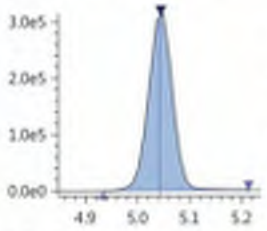
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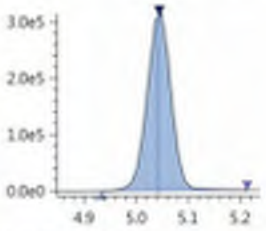
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 5.00e2



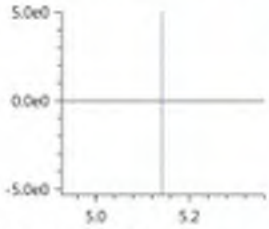
N-MeFOSAA-d3
Conc 4.8944
RT 5.044 Area 1016110
Q 572.80>419.05 (-) 3.15e5



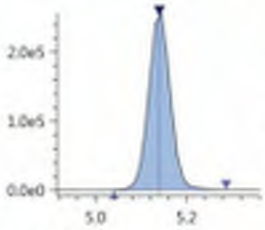
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.044 Area 1016110
ISTD 572.80>419.05 (-) 3.15e5



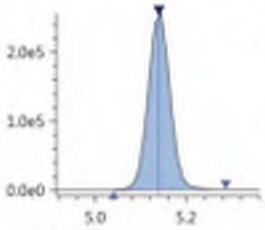
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



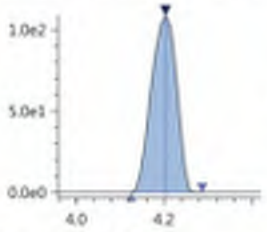
N-EtFOSAA-d5
Conc 5.0525
RT 5.140 Area 853488
Q 588.80>419.00 (-) 2.56e5



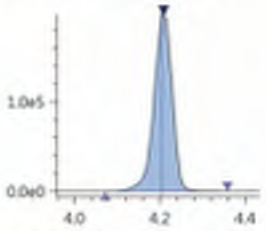
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Conc 5.0000
RT 5.140 Area 853488
ISTD 588.80>419.00 (-) 2.56e5



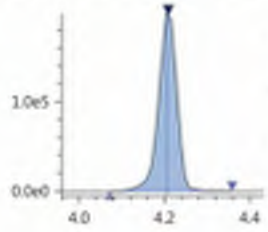
4_2-FTS_1
Conc 0.0039
RT 4.203 Area 439
Q 327.00>307.05 (-) 1.09e2



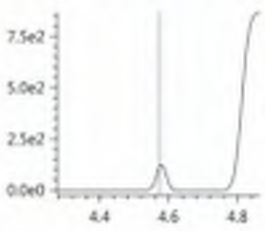
4_2-FTS-13C
Conc 4.1929
RT 4.209 Area 596008
Q 328.80>309.05 (-) 1.98e5



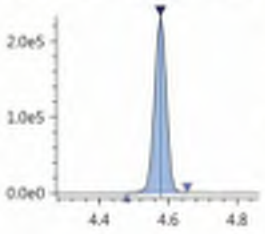
4_2-FTS-13C_IS
Conc 5.0000
RT 4.209 Area 596008
ISTD 328.80>309.05 (-) 1.98e5



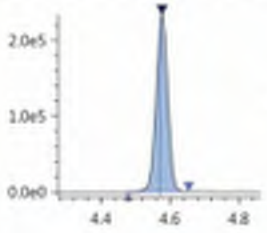
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 (-) 8.66e2



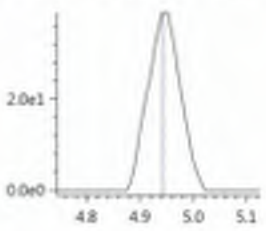
6_2-FTS-13C
Conc 3.5857
RT 4.577 Area 543266
Q 428.90>409.00 (-) 2.34e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.577 Area 543266
ISTD 428.90>409.00 (-) 2.34e5



8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 3.90e1

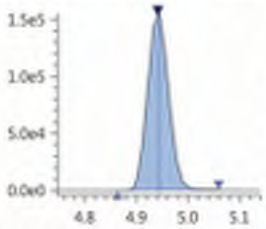


Manual Integration - Before

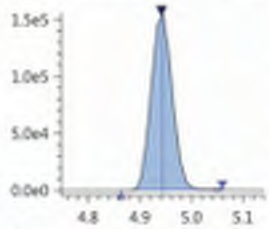
Insight Report

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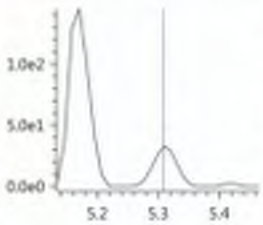
8_2-FTS-13C
Conc 4.7634
RT 4.942 Area 445270
Q 528.80>509.00 (-) 1.56e5



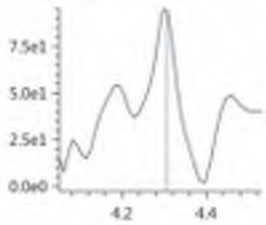
8_2-FTS-13C_IS
Conc 5.0000
RT 4.942 Area 445270
ISTD 528.80>509.00 (-) 1.56e5



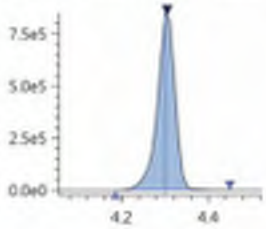
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 (-) 1.45e2



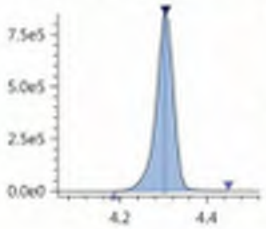
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 (-) 9.50e1



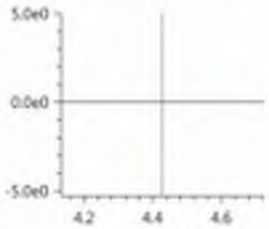
HFPO_DA-13C
Conc 5.0816
RT 4.304 Area 2427144
Q 332.00>286.80 (-) 8.50e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.304 Area 2427144
ISTD 332.00>286.80 (-) 8.50e5



ADONA
Conc ----
RT ---- Area ----
Q 377.00>251.00 (-) 0.00e0



1st EJD 09/19/19
2nd 09/23/19

Validation Report

Data File: J:\LCMS06\Data\190917_b9\190917_224
Lab ID: KQ1913393-01
RunType: CCV
Matrix: Water

Date Acquired: 9/19/19 06:14
Batch ID: 651768
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st EJD 09/19/19
2nd 09/23/19

Quantitation Report

Data File:	J:\LCMS06\Data\190917_b9\190917_224	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:14	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1913393-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	651768	**Prep Lot:**		**Report Group:**	KQ1913393
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900381
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.122		4484730	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
13C3-PFBS	4.031		1453094	6.9711	Y
18O2-PFHxS	4.411		638414	6.1880	Y
13C4-PFOS	4.750		901502	5.9952	Y
13C4-PFBA	3.428		5112325	6.2830	Y
13C5-PFPeA	3.977		2538350	6.1405	Y
13C2-PFHxA	4.232		5884745	5.9060	Y
13C4-PFHpA	4.409		4588202	6.8083	Y
13C4-PFOA	4.583		6047322	5.5700	Y
13C5-PFNA	4.760		4393676	5.7463	Y
13C2-PFDA	4.941		4058234	6.4164	Y
13C2-PFUnDA	5.122		3266404	4.5949	Y
13C2-PFDoDA	5.297		4903011	5.6834	Y
13C2-PFTeDA	5.611		3587912	5.2395	Y
13C8-FOSA	5.232		2333860	6.2465	Y
D3-MeFOSAA	5.037		364999	5.2291	Y
D5-EtFOSAA	5.134		324204	5.0868	Y
13C2-6:2 FTS	4.571		337672	5.0577	Y
13C2-8:2 FTS	4.937		231230	5.3015	Y

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.029		333690	1.1394	Y
Perfluorohexane sulfonic acid (PFHxS)	4.408		166461	1.0692	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	J:\LCMS06\Data\190917_b9\190917_224	**Instrument:**	K-LCMS-06
Acqu Date:	9/19/19 06:14	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1913393-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	4.578		226708	1.1526	Y
Perfluorooctane sulfonic acid (PFOS)	4.750		147585	1.1931	Y
Perfluorodecane sulfonic acid (PFDS)	5.106		171989	1.3890	Y
Perfluorobutanoic acid (PFBA)	3.429		957180	1.2007	Y
Perfluoropentanoic acid (PFPeA)	3.977		1163993	1.1859	Y
Perfluorohexanoic acid (PFHxA)	4.231		1241846	1.0834	Y
Perfluoroheptanoic acid (PFHpA)	4.410		970757	1.0682	Y
Perfluorooctanoic acid (PFOA)	4.583		1283726	1.2693	Y
Perfluorononanoic acid (PFNA)	4.760		862367	1.1843	Y
Perfluorodecanoic acid (PFDA)	4.941		777164	1.2171	Y
Perfluoroundecanoic acid (PFUnDA)	5.122		513971	1.1881	Y
Perfluorododecanoic acid (PFDoDA)	5.296		590344	1.1887	Y
Perfluorotridecanoic acid (PFTrDA)	5.461		758299	1.0852	Y
Perfluorotetradecanoic acid (PFTeDA)	5.611		396656	1.2300	Y
Perfluorooctane sulfonamide (FOSA)	5.232		616338	1.0687	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.039		56065	1.1706	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.136		40747	1.3401	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.571		74427	1.0451	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.937		44706	1.3726	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Insight Report

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Project File: J:\LCMS06\Data\190917_b9\190917_b9.damlp
Flags File: J:\LCMS06\Data\190917_b9\190917_b9.damlp

190917_224

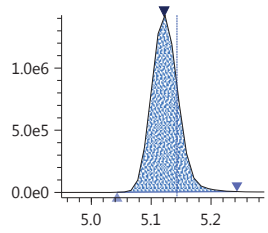
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Date acquired: 9/19/2019 6:14:00 AM
Acquired by: System Administrator
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Vial: 14 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.122	4484730	4484730	1	5.0000	ng/mL	5.0000
PFBS_1	M	4.029	333690	1442834	2	1.1394	ng/mL	0.8874
PFBS-13C	Auto	4.031	1453094	4484730	1	6.9711	ng/mL	5.0000
PFBS-13C_IS	Auto	4.031	1442834	1442834	2	5.0000	ng/mL	5.0000
PFHxS_1	Auto	4.408	166461	638414	3	1.0692	ng/mL	0.9131
PFHxS-18O	Auto	4.411	638414	4484730	1	6.1880	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.411	638414	638414	3	5.0000	ng/mL	5.0000
PFHpS_1	M	4.578	226708	638414	3	1.1526	ng/mL	0.9534
PFOS_1	Auto	4.750	147585	901502	4	1.1931	ng/mL	0.9292
PFOS-13C	Auto	4.750	901502	4484730	1	5.9952	ng/mL	5.0000
PFOS-13C_IS	Auto	4.750	901502	901502	4	5.0000	ng/mL	5.0000
PFDS_1	Auto	5.106	171989	901502	4	1.3890	ng/mL	0.9647
PFBA	Auto	3.429	957180	5112325	5	1.2007	ng/mL	1.0000
PFBA-13C	Auto	3.428	5112325	4484730	1	6.2830	ng/mL	5.0000
PFBA-13C_IS	Auto	3.428	5112325	5112325	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.977	1163993	2538350	6	1.1859	ng/mL	1.0000
PFPeA-13C	Auto	3.977	2538350	4484730	1	6.1405	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.977	2538350	2538350	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.231	1241846	5884745	7	1.0834	ng/mL	1.0000
PFHxA-13C	Auto	4.232	5884745	4484730	1	5.9060	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.232	5884745	5884745	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.410	970757	4588202	8	1.0682	ng/mL	1.0000
PFHpA-13C	Auto	4.409	4588202	4484730	1	6.8083	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.409	4588202	4588202	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.583	1283726	6047322	9	1.2693	ng/mL	1.0000
PFOA-13C	Auto	4.583	6047322	4484730	1	5.5700	ng/mL	5.0000
PFOA-13C_IS	Auto	4.583	6047322	6047322	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.760	862367	4393676	10	1.1843	ng/mL	1.0000
PFNA-13C	Auto	4.760	4393676	4484730	1	5.7463	ng/mL	5.0000
PFNA-13C_IS	Auto	4.760	4393676	4393676	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.941	777164	4058234	11	1.2171	ng/mL	1.0000
PFDA-13C	Auto	4.941	4058234	4484730	1	6.4164	ng/mL	5.0000
PFDA-13C_IS	Auto	4.941	4058234	4058234	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.122	513971	3266404	12	1.1881	ng/mL	1.0000
PFUnA-13C	Auto	5.122	3266404	4484730	1	4.5949	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.122	3266404	3266404	12	5.0000	ng/mL	5.0000
PFDoA	M	5.296	590344	4903011	13	1.1887	ng/mL	1.0000
PFDoA-13C	Auto	5.297	4903011	4484730	1	5.6834	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.297	4903011	4903011	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.461	758299	3587912	14	1.0852	ng/mL	1.0000
PFTeDA	Auto	5.611	396656	3587912	14	1.2300	ng/mL	1.0000
PFTeDA-13C	Auto	5.611	3587912	4484730	1	5.2395	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.611	3587912	3587912	14	5.0000	ng/mL	5.0000
FOSA	Auto	5.232	616338	2333860	16	1.0687	ng/mL	1.0000
FOSA-13C	Auto	5.232	2333860	4484730	1	6.2465	ng/mL	5.0000
FOSA-13C_IS	Auto	5.232	2333860	2333860	16	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.039	56065	364999	21	1.1706	ng/mL	1.0000
N-MeFOSAA-d3	Auto	5.037	364999	4484730	1	5.2291	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.037	364999	364999	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.136	40747	324204	22	1.3401	ng/mL	1.0000
N-EtFOSAA-d5	Auto	5.134	324204	4484730	1	5.0868	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.134	324204	324204	22	5.0000	ng/mL	5.0000
6_2-FTS_1	M	4.571	74427	337672	24	1.0451	ng/mL	0.9512
6_2-FTS-13C	Auto	4.571	337672	4484730	1	5.0577	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.571	337672	337672	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.937	44706	231230	25	1.3726	ng/mL	0.9600
8_2-FTS-13C	Auto	4.937	231230	4484730	1	5.3015	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.937	231230	231230	25	5.0000	ng/mL	5.0000

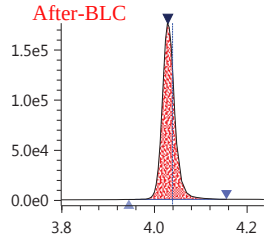
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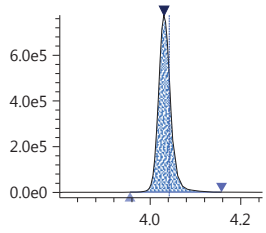
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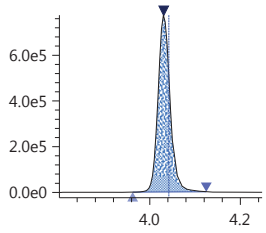
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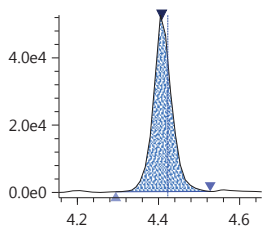
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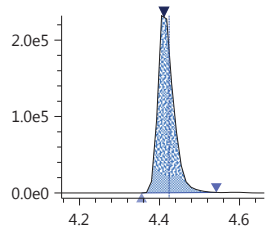
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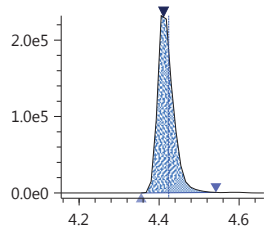
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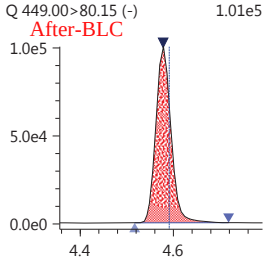
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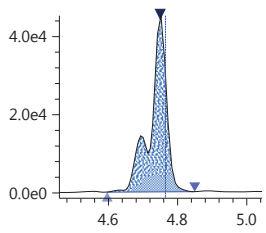
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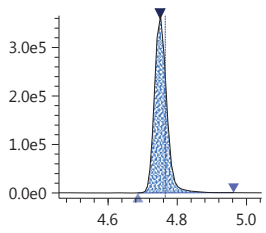
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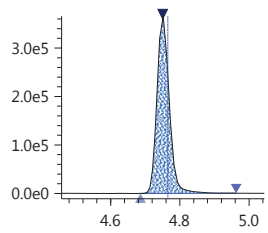
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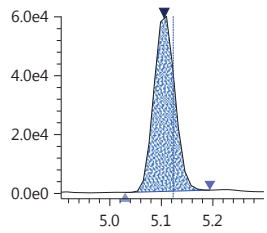
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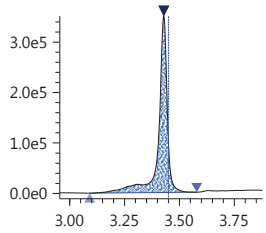
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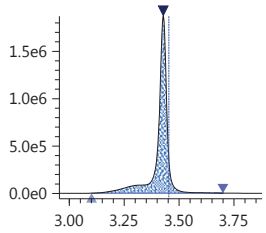
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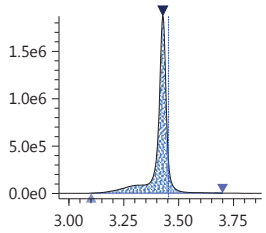
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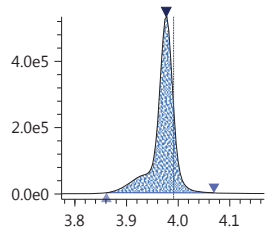
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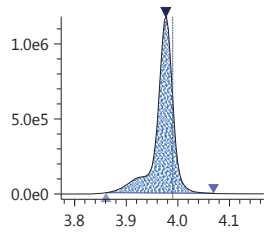
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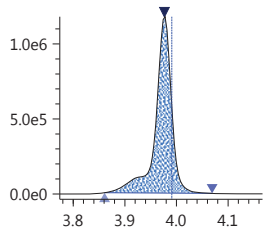
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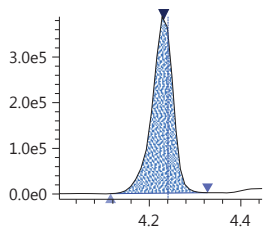
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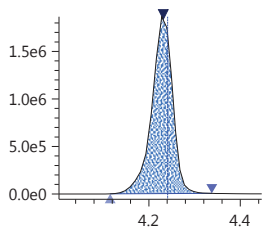
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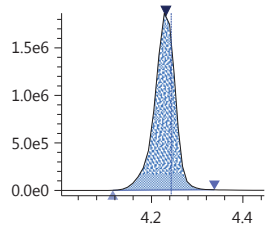
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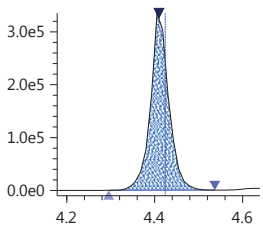
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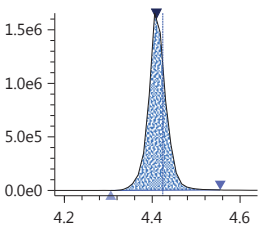
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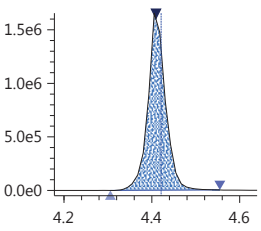
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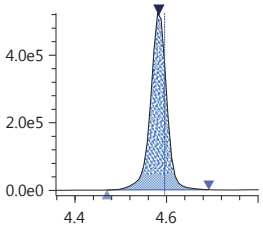
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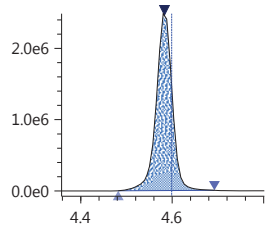
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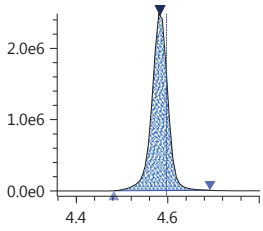
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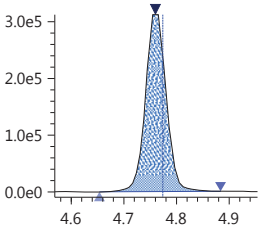
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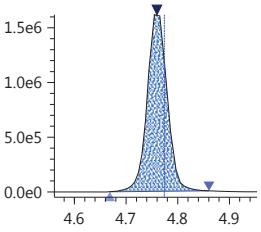
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Conc 5.0000
RT 4.583 Area 6047322
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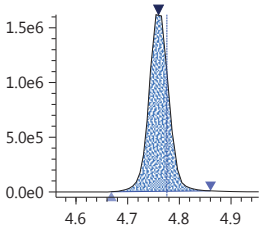
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Conc 1.1843
RT 4.760 Area 862367
Q 463.00>418.90 (-) 3.13e5



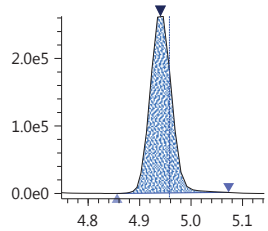
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Q 467.80>423.00 (-) 1.62e6



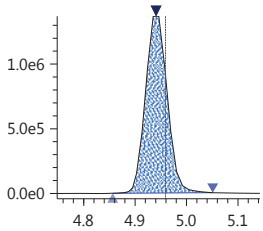
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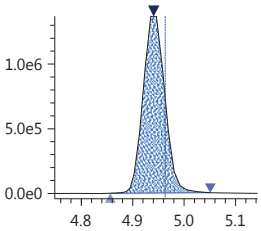
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Conc 1.2171
RT 4.941 Area 777164
Q 513.00>468.80 (-) 2.63e5



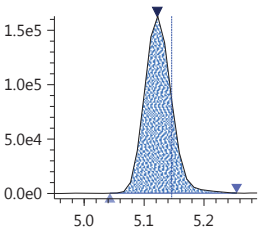
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Conc 6.4164
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Q 514.80>469.95 (-) 1.37e6



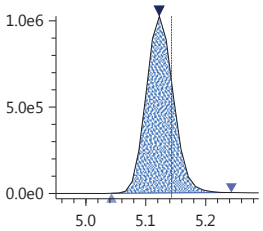
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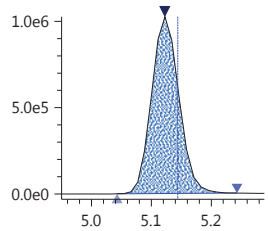
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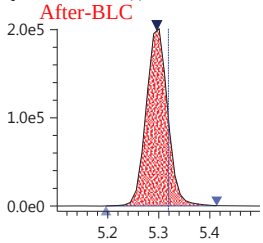
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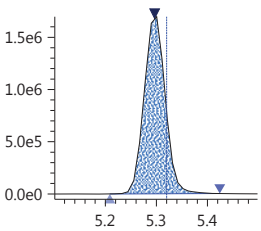
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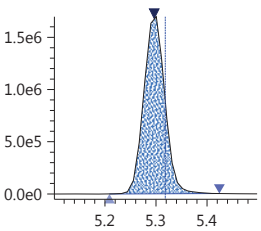
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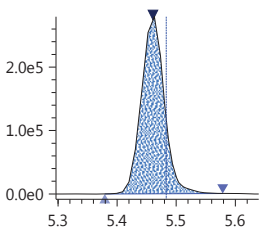
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Conc 5.6834
RT 5.297 Area 4903011
Q 614.80>569.95 (-) 1.70e6



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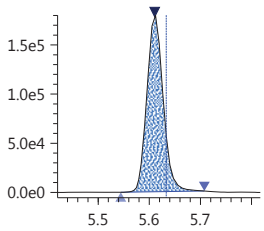
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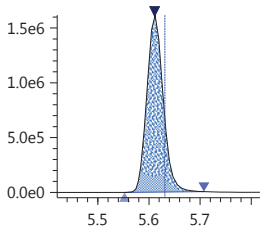
Insight Report

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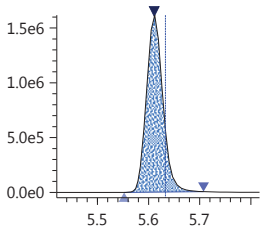
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RT 5.611 Area 396656
Q 713.40>669.00 (-) 1.80e5



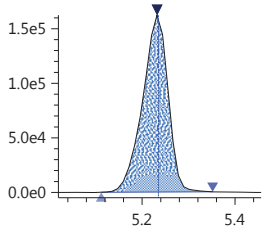
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Conc 5.2395
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Q 714.70>669.90 (-) 1.62e6



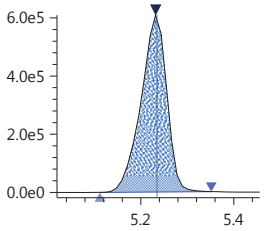
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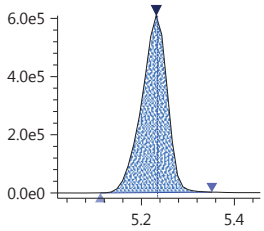
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RT 5.232 Area 616338
Q 498.20>78.00 (-) 1.62e5



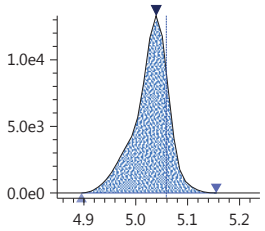
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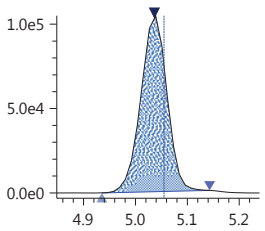
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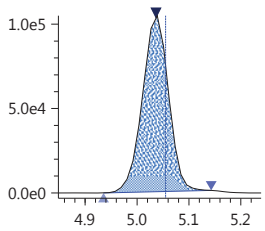
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Conc 1.1706
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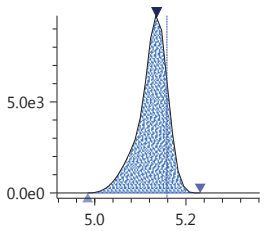
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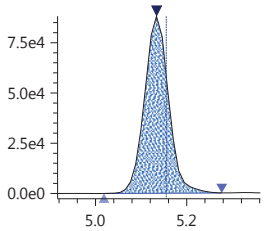
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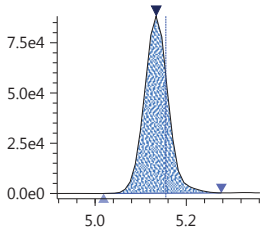
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Conc 1.3401
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Q 584.20>418.95 (-) 9.73e3



N-EtFOSAA-d5
Conc 5.0868
RT 5.134 Area 324204
Q 588.80>419.00 (-) 8.82e4

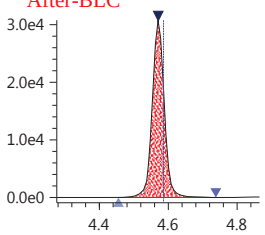


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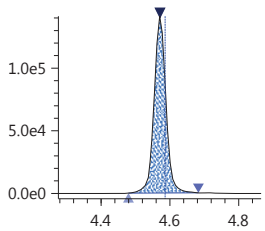


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RT 4.571 Area 74427
Q 427.00>407.00 (-) 3.08e4

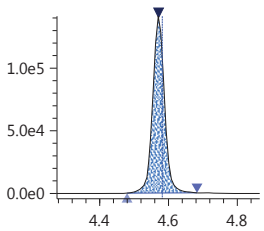
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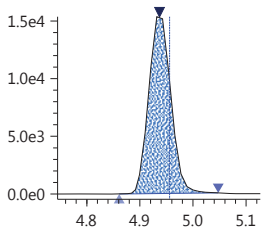
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Conc 5.0577
RT 4.571 Area 337672
Q 428.90>409.00 (-) 1.41e5



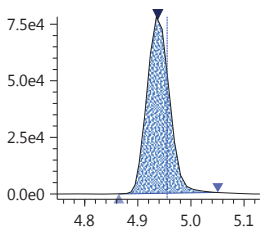
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RT 4.571 Area 337672
ISTD 428.90>409.00 (-) 1.41e5



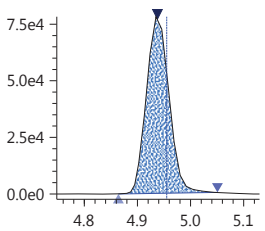
8_2-FTS_1
Conc 1.3726
RT 4.937 Area 44706
Q 527.10>506.90 (-) 1.54e4



8_2-FTS-13C
Conc 5.3015
RT 4.937 Area 231230
Q 528.80>509.00 (-) 7.83e4



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ISTD 528.80>509.00 (-) 7.83e4



Insight Report

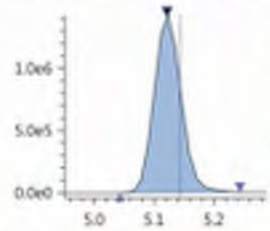
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Project File: J:\LCMS06\Data\190917_b9\190917_b9.damlp
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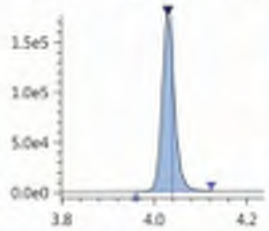
190917_224

Sample ID: 1.0 PPB CCV
Date acquired: 9/19/2019 6:14:00 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_b9\190917_224.lcd
Vial: 14 | Inj. Volume: 15.0000uL | Tray: 1

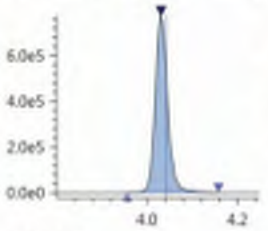
13C7-PFUnDA_IS
Conc 5.0000
RT 5.122 Area 4484730
ISTD 570.00>525.00 (-) 1.43e6



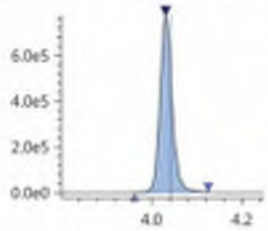
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Q 299.00>80.00 (-) 1.77e5



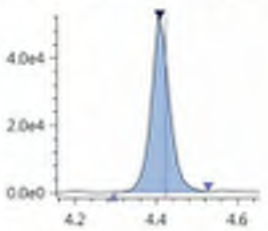
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RT 4.031 Area 1453094
Q 301.80>80.00 (-) 7.75e5



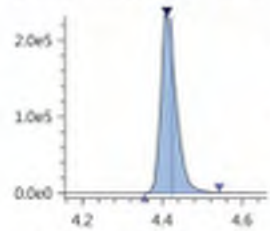
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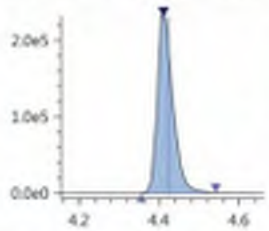
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RT 4.408 Area 166461
Q 399.00>80.00 (-) 5.27e4



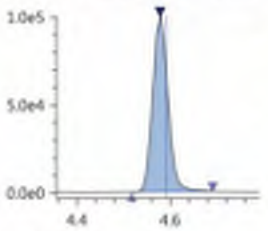
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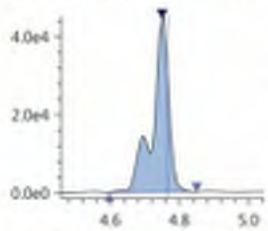
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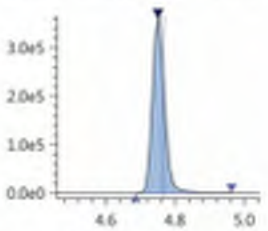
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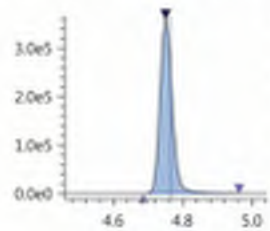
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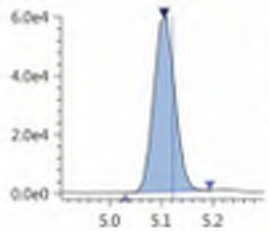
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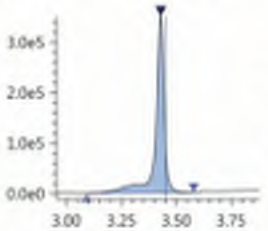
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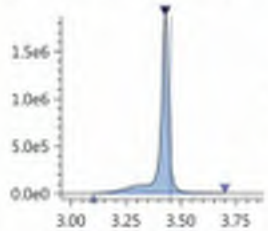
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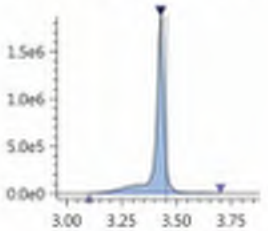
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RT 3.429 Area 957180
Q 213.00>169.10 (-) 3.51e5



PFBA-13C
Conc 6.2830
RT 3.428 Area 5112325
Q 216.90>172.15 (-) 1.87e6



PFBA-13C_IS
Conc 5.0000
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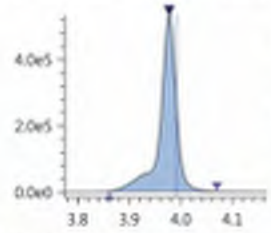


Manual Integration - Before

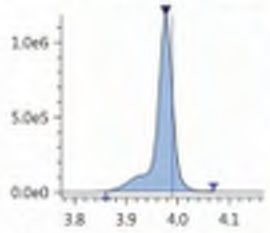
Insight Report

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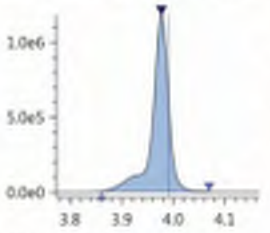
PFPeA
Conc 1.1859
RT 3.977 Area 1163993
Q 263.05>219.10 (-) 5.35e5



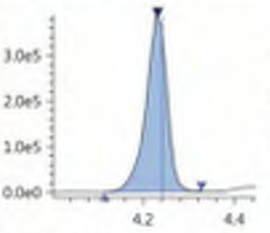
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Q 267.90>223.00 (-) 1.18e6



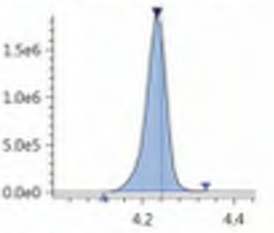
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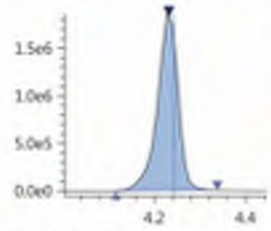
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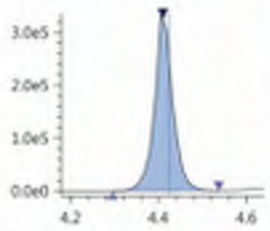
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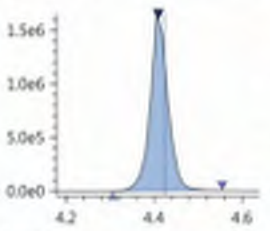
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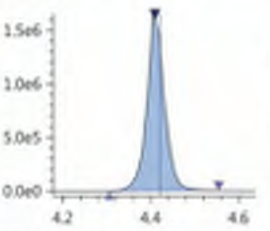
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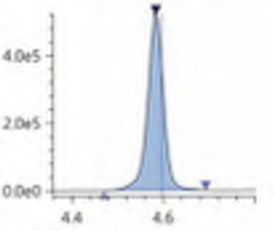
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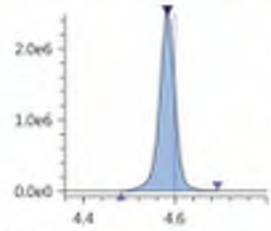
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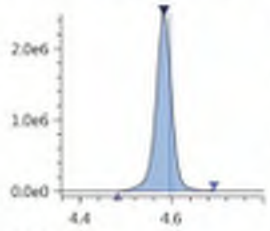
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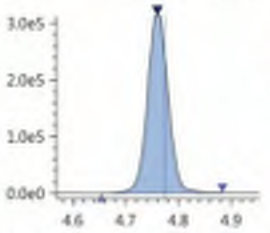
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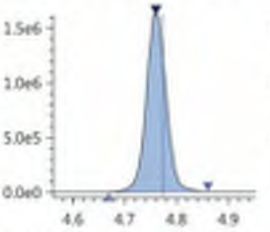
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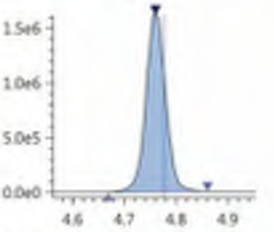
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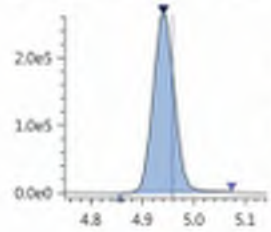
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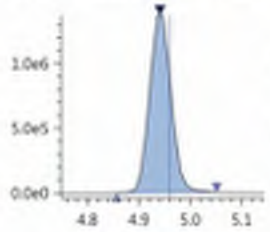
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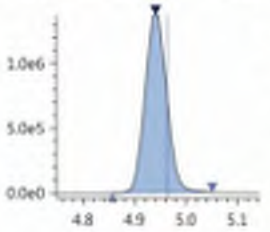
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Conc 1.2171
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Q 513.00>468.80 (-) 2.63e5



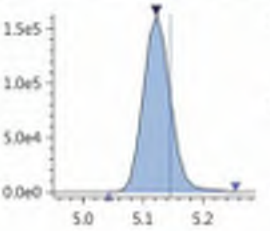
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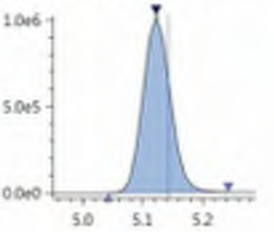
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Conc 5.0000
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ISTD 514.80>469.95 (-) 1.37e6



PFUnA
Conc 1.1881
RT 5.122 Area 513971
Q 563.00>518.90 (-) 1.63e5



PFUnA-13C
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RT 5.122 Area 3266404
Q 564.80>519.95 (-) 1.03e6

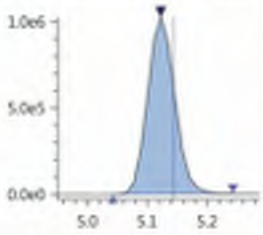


Manual Integration - Before

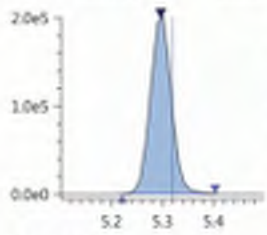
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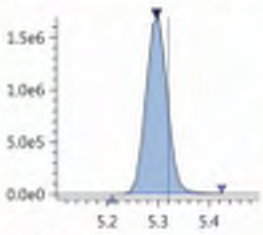
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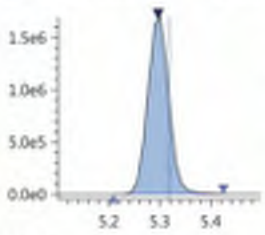
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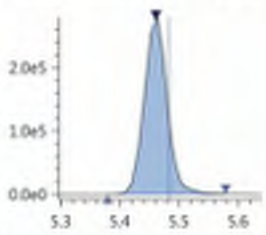
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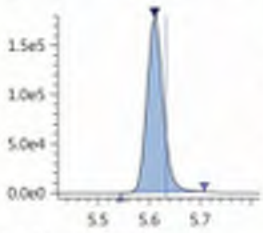
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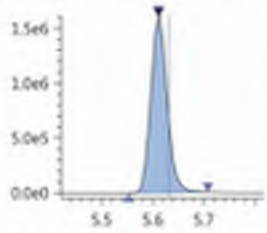
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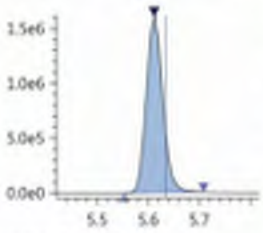
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Q 713.40>669.00 (-) 1.80e5



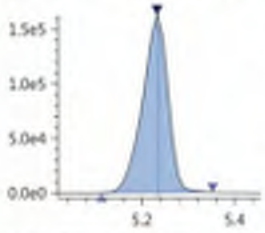
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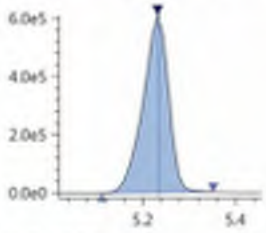
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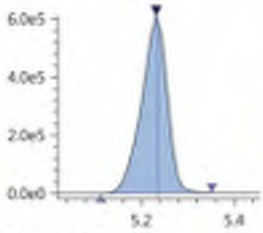
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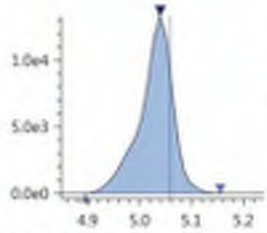
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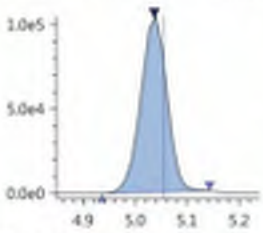
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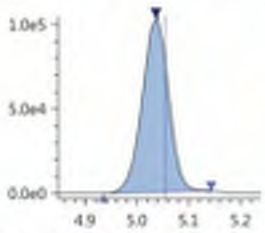
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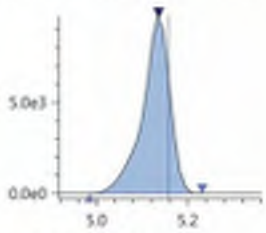
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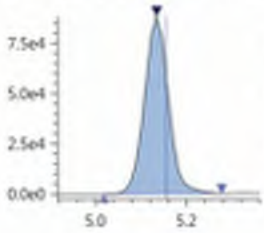
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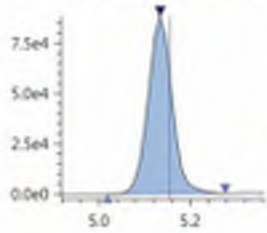
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Q 584.20>418.95 (-) 9.73e3



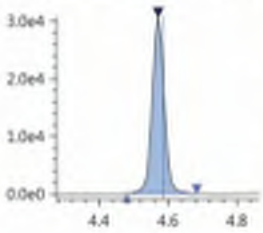
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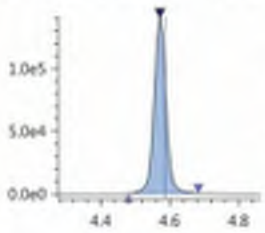
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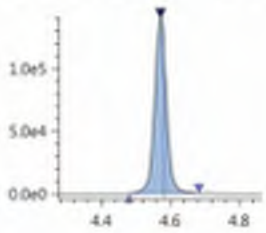
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Conc 1.0340
RT 4.571 Area 73641
Q 427.00>407.00 (-) 3.08e4



6_2-FTS-13C
Conc 5.0577
RT 4.571 Area 337672
Q 428.90>409.00 (-) 1.41e5



6_2-FTS-13C_IS
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ISTD 428.90>409.00 (-) 1.41e5

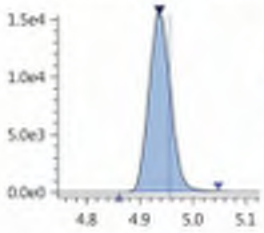


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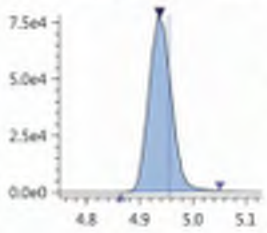
8_2-FTS_1

Conc 1.3726
RT 4.937 Area 44706
Q 527.10>506.90 (-) 1.54e4



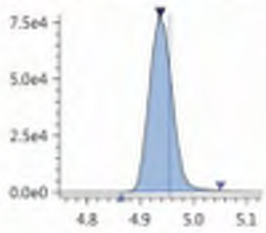
8_2-FTS-13C

Conc 5.3015
RT 4.937 Area 231230
Q 528.80>509.00 (-) 7.83e4



8_2-FTS-13C_IS

Conc 5.0000
RT 4.937 Area 231230
ISTD 528.80>509.00 (-) 7.83e4



Manual Integration - Before

1st EJD 09/24/19
2nd 09/25/19

Validation Report

Data File: J:\LCMS06\Data\190923_b2\190923_022
Lab ID: KQ1913623-01
RunType: CCV
Matrix: Water

Date Acquired: 9/23/19 23:46
Batch ID: 652554
Analysis Method: PFC/537M/PFOA

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Internal Standards	X	
Above Highest ICAL Level	X	

Primary Review: _____

Secondary Review: _____

1st EJD 09/24/19
2nd 09/25/19

Quantitation Report

Data File:	J:\LCMS06\Data\190923_b2\190923_022	**Instrument:**	K-LCMS-06
Acqu Date:	9/23/19 23:46	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1913623-01	**Raw Units:**	ng/mL

Bottle ID:		**Tier:**	IV	**Matrix:**	Water
Prod Code:	PFOA	**Collect Date:**	9/10/19	**Receive Date:**	9/10/19

Analysis Lot:	652554	**Prep Lot:**		**Report Group:**	KQ1913623
Analysis	PFC/537M	**Prep Method:**			
		Prep Date:			

Title:	Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS	**Calibration ID:**	KC1900392
		Report List ID:	19884

Internal Standard Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Area Criteria
13C7-PFUnDA	5.123		6779033	5.0000	OK

Surrogate Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
13C3-PFBS	4.031		1604133	4.8477	Y
18O2-PFHxS	4.409		813968	4.4073	Y
13C4-PFOS	4.749		998299	5.4223	Y
13C4-PFBA	3.434		4904070	4.5309	Y
13C5-PFPeA	3.978		3161026	4.4587	Y
13C2-PFHxA	4.231		8739383	5.3435	Y
13C4-PFHpA	4.408		6993954	5.0577	Y
13C4-PFOA	4.583		8896606	5.4536	Y
13C5-PFNA	4.760		7050664	5.6881	Y
13C2-PFDA	4.941		5418445	4.9463	Y
13C2-PFUnDA	5.123		5174637	5.3347	Y
13C2-PFDoDA	5.296		8683442	5.4512	Y
13C2-PFTeDA	5.611		11448109	5.5732	Y
13C8-FOSA	5.222		2977275	4.8313	Y
D3-MeFOSAA	5.038		939333	5.2892	Y
D5-EtFOSAA	5.136		944798	6.5382	Y
13C2-6:2 FTS	4.571		580669	4.4801	Y
13C2-8:2 FTS	4.938		508422	6.3580	Y

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Perfluorobutane sulfonic acid (PFBS)	4.029		380449	0.8946	Y
Perfluorohexane sulfonic acid (PFHxS)	4.405		212842	0.9359	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File:	J:\LCMS06\Data\190923_b2\190923_022	**Instrument:**	K-LCMS-06
Acqu Date:	9/23/19 23:46	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ1913623-01	**Raw Units:**	ng/mL

Target Compounds

Parameter Name	RT	RT Dev	Response	Solution Conc	Rpt?
Perfluoroheptane sulfonic acid (PFHpS)	4.576		215723	1.0509	Y
Perfluorooctane sulfonic acid (PFOS)	4.749		172981	0.8286	Y
Perfluorodecane sulfonic acid (PFDS)	5.103		207718	1.0880	Y
Perfluorobutanoic acid (PFBA)	3.435		941362	1.0100	Y
Perfluoropentanoic acid (PFPeA)	3.978		1405524	1.0691	Y
Perfluorohexanoic acid (PFHxA)	4.231		1490987	0.9870	Y
Perfluoroheptanoic acid (PFHpA)	4.408		1260513	0.8906	Y
Perfluorooctanoic acid (PFOA)	4.583		1977470	0.9452	Y
Perfluorononanoic acid (PFNA)	4.760		1232259	0.9943	Y
Perfluorodecanoic acid (PFDA)	4.941		1140300	0.9769	Y
Perfluoroundecanoic acid (PFUnDA)	5.123		947543	1.0356	Y
Perfluorododecanoic acid (PFDoDA)	5.296		1181694	1.0413	Y
Perfluorotridecanoic acid (PFTrDA)	5.460		1436081	0.8254	Y
Perfluorotetradecanoic acid (PFTeDA)	5.611		1178615	0.9589	Y
Perfluorooctane sulfonamide (FOSA)	5.222		621271	0.9206	Y
N-Methyl perfluorooctane sulfonamidoacetic acid	5.041		163044	1.0637	Y
N-Ethyl perfluorooctane sulfonamidoacetic acid	5.139		123150	1.0546	Y
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	4.571		116872	1.1038	Y
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	4.936		78463	1.0396	Y

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

1st ETD 09/24/19

2nd 09/25/19

Insight Report

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Method File: J:\LCMS06\Data\190923_b2\190923_b2.lcm
Project File: J:\LCMS06\Data\190923_b2\190923_b2.damlp
Flags File: J:\LCMS06\Data\190923_b2\190923_b2.damlp

190923_022

Recoveries in control (70-130%) for all 36 target analytes
high EtFOSAA, low 4:2 surr, natives in control

Sample ID: 1.0 PPB ICAL
Date acquired: 9/23/2019 11:46:02 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190923_b2\190923_022.lcd
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.123	6779033	6779033	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.029	380449	1601180	2	0.8946	ng/mL	0.8874
PFBS-13C	Auto	4.031	1604133	6779033	1	4.8477	ng/mL	5.0000
PFBS-13C_IS	Auto	4.031	1601180	1601180	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.249	99881	1601180	2	0.7394	ng/mL	0.9409
PFHxS_1	Auto	4.405	212842	813968	3	0.9359	ng/mL	0.9131
PFHxS-18O	Auto	4.409	813968	6779033	1	4.4073	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.409	813968	813968	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.576	215723	813968	3	1.0509	ng/mL	0.9534
PFOS_1	Auto	4.749	172981	998299	4	0.8286	ng/mL	0.9292
PFOS-13C	Auto	4.749	998299	6779033	1	5.4223	ng/mL	5.0000
PFOS-13C_IS	Auto	4.749	998299	998299	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.927	124636	998299	4	0.9090	ng/mL	0.9616
PFDS_1	Auto	5.103	207718	998299	4	1.0880	ng/mL	0.9647
PFDOS	Auto	5.435	186278	998299	4	0.8620	ng/mL	0.9696
9Cl-PF3ONS	Auto	4.852	1208027	998299	4	0.8184	ng/mL	0.9332
11Cl-PF3OUdS	Auto	5.201	588720	998299	4	0.6633	ng/mL	0.9432
PFBA	Auto	3.435	941362	4904070	5	1.0100	ng/mL	1.0000
PFBA-13C	Auto	3.434	4904070	6779033	1	4.5309	ng/mL	5.0000
PFBA-13C_IS	Auto	3.434	4904070	4904070	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.978	1405524	3161026	6	1.0691	ng/mL	1.0000
PFPeA-13C	Auto	3.978	3161026	6779033	1	4.4587	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.978	3161026	3161026	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.231	1490987	8739383	7	0.9870	ng/mL	1.0000
PFHxA-13C	Auto	4.231	8739383	6779033	1	5.3435	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.231	8739383	8739383	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.408	1260513	6993954	8	0.8906	ng/mL	1.0000
PFHpA-13C	Auto	4.408	6993954	6779033	1	5.0577	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.408	6993954	6993954	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.583	1977470	8896606	9	0.9452	ng/mL	1.0000
PFOA-13C	Auto	4.583	8896606	6779033	1	5.4536	ng/mL	5.0000
PFOA-13C_IS	Auto	4.583	8896606	8896606	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.760	1232259	7050664	10	0.9943	ng/mL	1.0000
PFNA-13C	Auto	4.760	7050664	6779033	1	5.6881	ng/mL	5.0000
PFNA-13C_IS	Auto	4.760	7050664	7050664	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.941	1140300	5418445	11	0.9769	ng/mL	1.0000
PFDA-13C	Auto	4.941	5418445	6779033	1	4.9463	ng/mL	5.0000
PFDA-13C_IS	Auto	4.941	5418445	5418445	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.123	947543	5174637	12	1.0356	ng/mL	1.0000
PFUnA-13C	Auto	5.123	5174637	6779033	1	5.3347	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.123	5174637	5174637	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.296	1181694	8683442	13	1.0413	ng/mL	1.0000
PFDoA-13C	Auto	5.296	8683442	6779033	1	5.4512	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.296	8683442	8683442	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.460	1436081	11448109	14	0.8254	ng/mL	1.0000
PFTeDA	Auto	5.611	1178615	11448109	14	0.9589	ng/mL	1.0000
PFTeDA-13C	Auto	5.611	11448109	6779033	1	5.5732	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.611	11448109	11448109	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.942	1651196	10572343	15	0.9956	ng/mL	1.0000
13C-PFHxDA	Auto	5.942	10572343	6779033	1	5.5826	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.942	10572343	10572343	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.453	1144167	10572343	15	0.9265	ng/mL	1.0000
FOSA	Auto	5.222	621271	2977275	16	0.9206	ng/mL	1.0000
FOSA-13C	Auto	5.222	2977275	6779033	1	4.8313	ng/mL	5.0000
FOSA-13C_IS	Auto	5.222	2977275	2977275	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.610	266159	854276	17	1.0696	ng/mL	1.0000
N-MeFOSA-d3	Auto	5.607	854276	6779033	1	4.6983	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.607	854276	854276	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.745	46113	1256618	18	1.0221	ng/mL	1.0000
N-EtFOSA-d9	Auto	5.739	1256618	6779033	1	4.7965	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.739	1256618	1256618	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.583	285476	1034963	19	0.9235	ng/mL	1.0000
N-MeFOSE-d7	Auto	5.576	1034963	6779033	1	5.4197	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.576	1034963	1034963	19	5.0000	ng/mL	5.0000

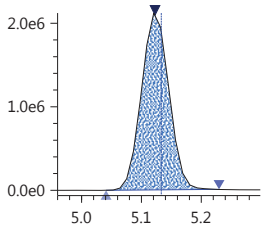
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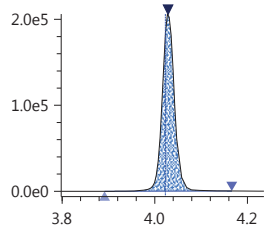
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-EtFOSE	Auto	5.712	322096	714050	20	1.0533	ng/mL	1.0000
N-EtFOSE-d9	Auto	5.702	714050	6779033	1	5.1672	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.702	714050	714050	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.041	163044	939333	21	1.0637	ng/mL	1.0000
N-MeFOSAA-d3	Auto	5.038	939333	6779033	1	5.2892	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.038	939333	939333	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.139	123150	944798	22	1.0546	ng/mL	1.0000
N-EtFOSAA-d5	Auto	5.136	944798	6779033	1	6.5382	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.136	944798	944798	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.200	69775	388893	23	0.9542	ng/mL	0.9372
4_2-FTS-13C	Auto	4.201	388893	6779033	1	3.1981	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.201	388893	388893	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.571	116872	580669	24	1.1038	ng/mL	0.9512
6_2-FTS-13C	Auto	4.571	580669	6779033	1	4.4801	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.571	580669	580669	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.936	78463	508422	25	1.0396	ng/mL	0.9600
8_2-FTS-13C	Auto	4.938	508422	6779033	1	6.3580	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.938	508422	508422	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.300	71542	508422	25	0.8729	ng/mL	0.9662
HPFO_DA	Auto	4.298	311833	1882533	26	1.0177	ng/mL	1.0000
HFPO_DA-13C	Auto	4.296	1882533	6779033	1	4.6074	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.296	1882533	1882533	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.430	1265894	1882533	26	1.2205	ng/mL	0.9451

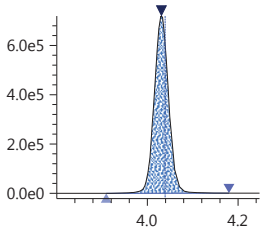
13C7-PFUnDA_IS
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RT 5.123 Area 6779033
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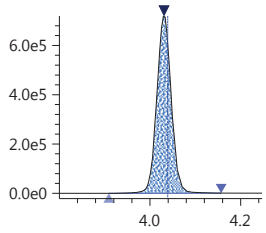
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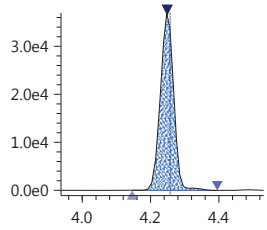
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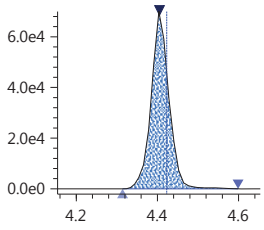
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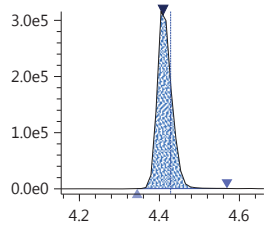
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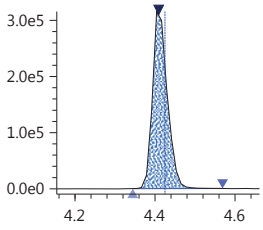
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Q 399.00>80.00 (-) 7.00e4



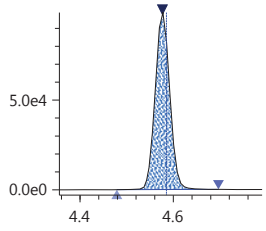
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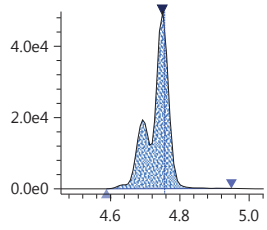
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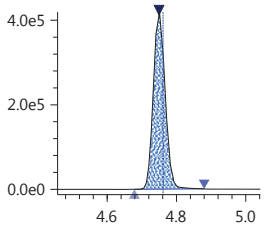
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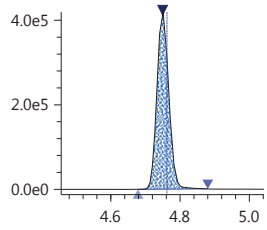
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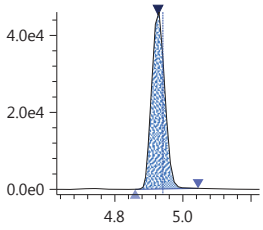
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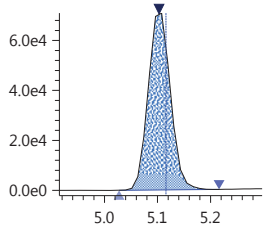
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ISTD 502.80>80.05 (-) 4.19e5



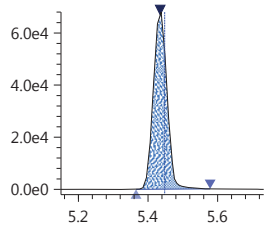
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Conc 0.9090
RT 4.927 Area 124636
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PFDS_1
Conc 1.0880
RT 5.103 Area 207718
Q 599.00>79.90 (-) 7.10e4



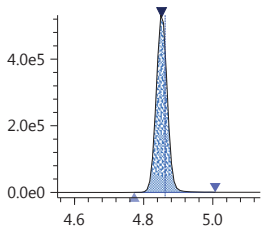
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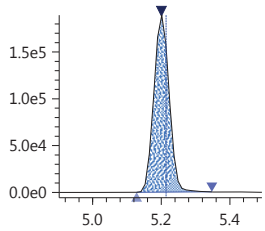
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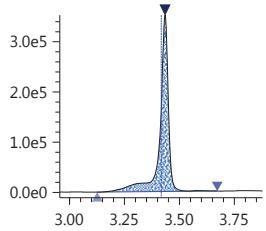
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Q 531.00>351.00 (-) 5.32e5



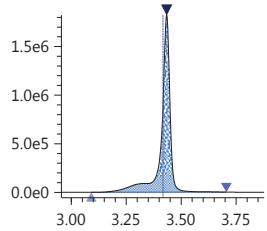
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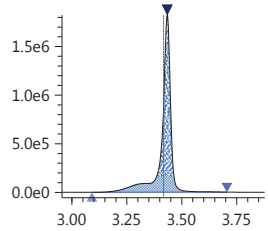
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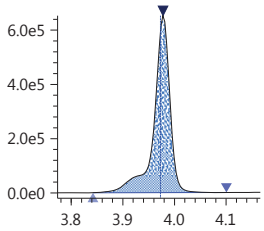
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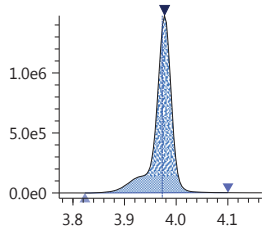
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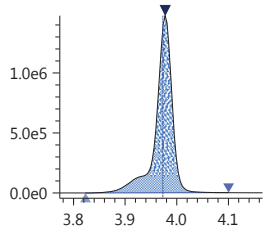
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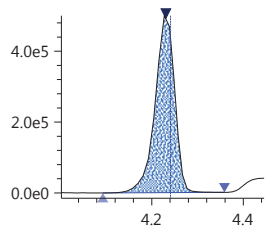
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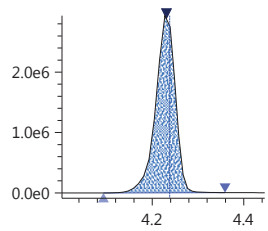
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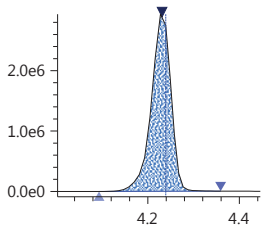
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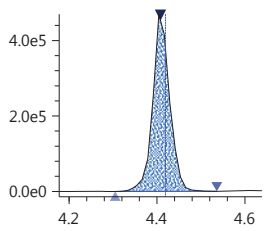
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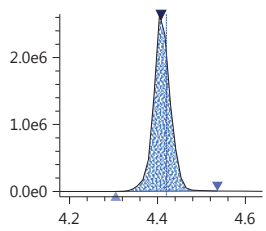
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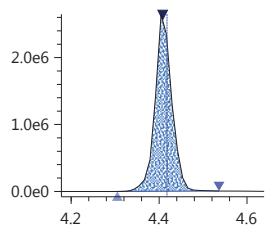
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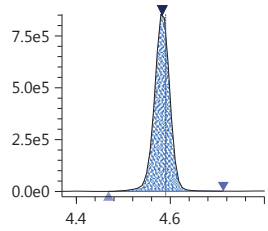
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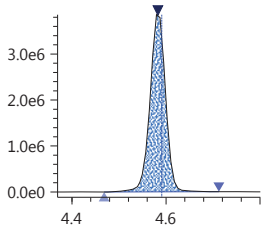
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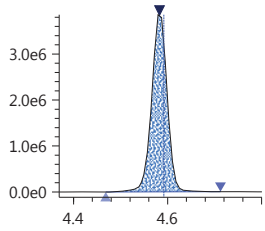
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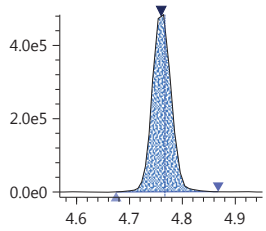
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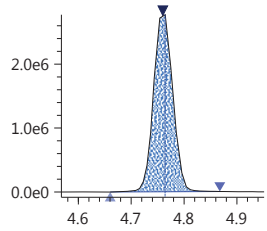
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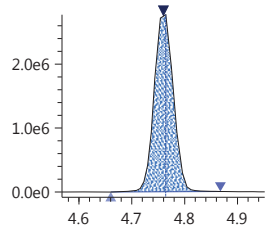
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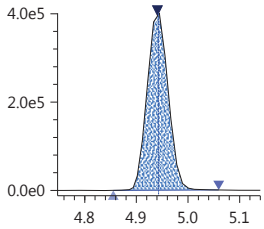
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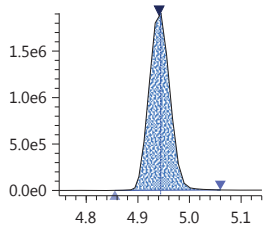
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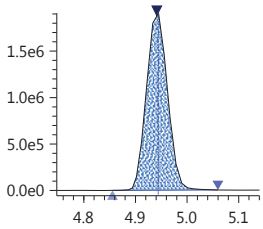
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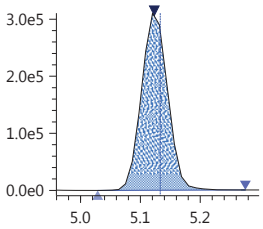
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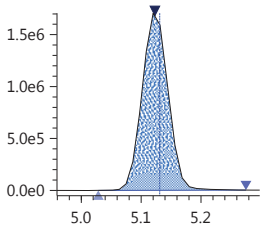
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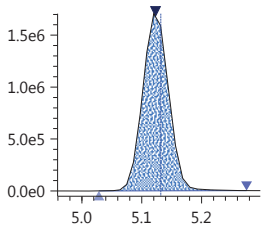
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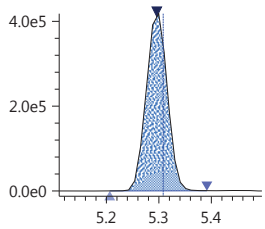
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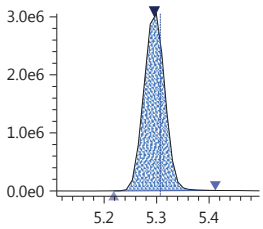
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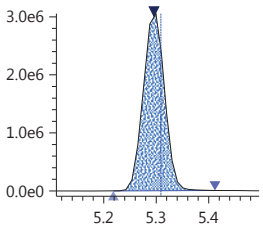
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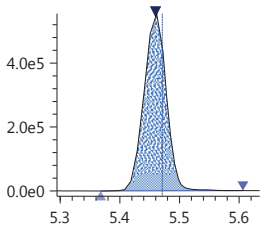
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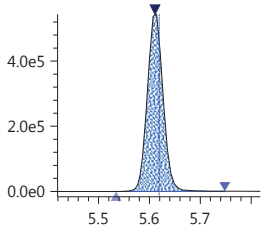
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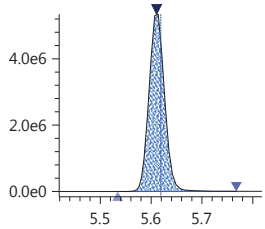
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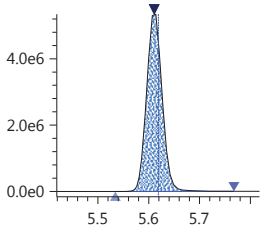
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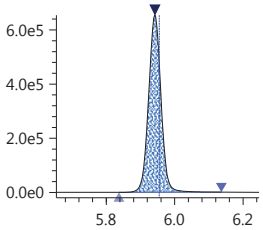
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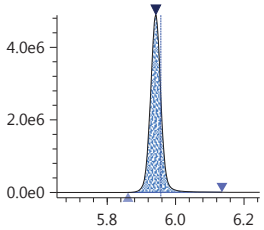
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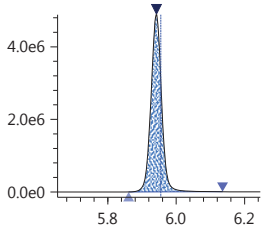
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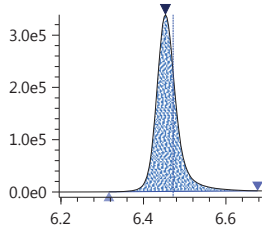
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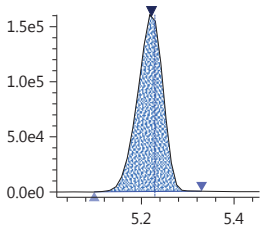
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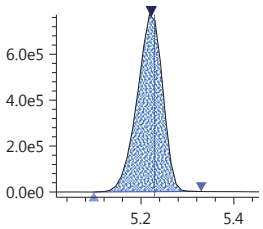
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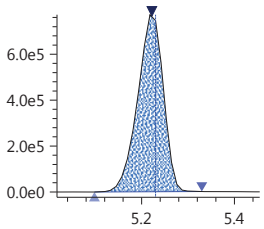
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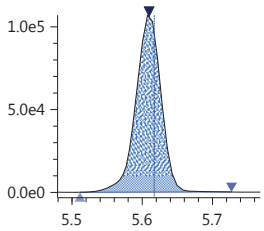
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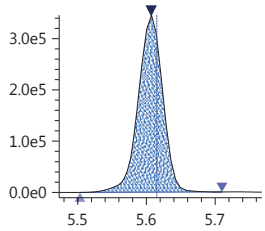
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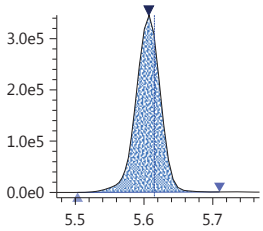
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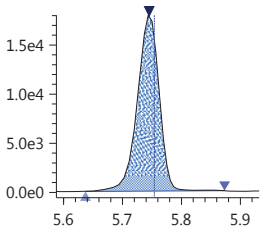
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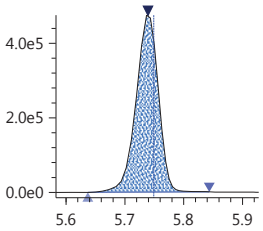
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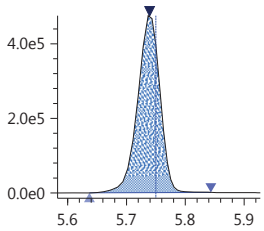
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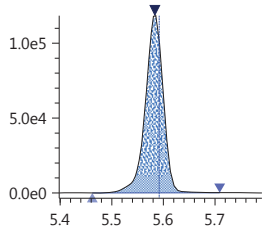
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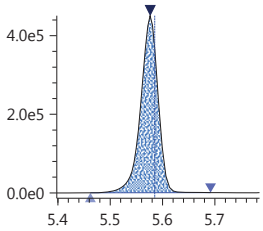
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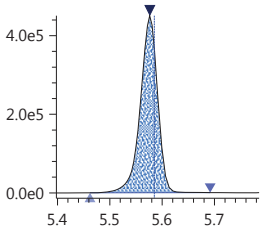
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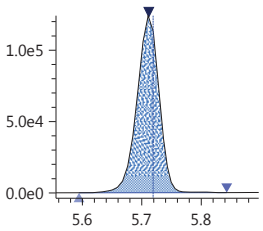
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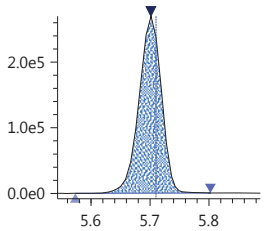
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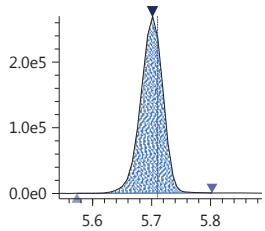
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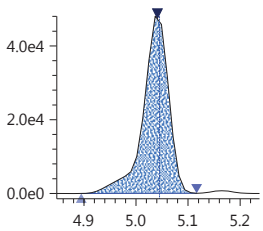
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Conc 5.1672
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Q 638.70>59.10 (-) 2.70e5



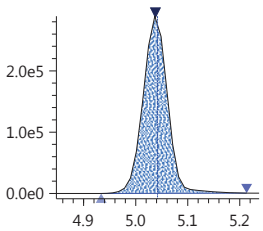
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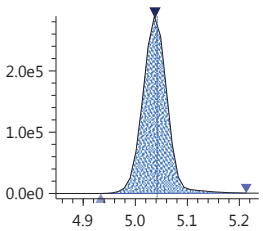
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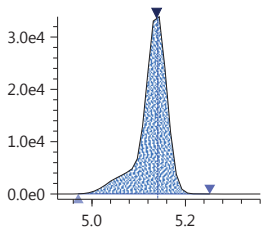
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Q 572.80>419.05 (-) 2.89e5



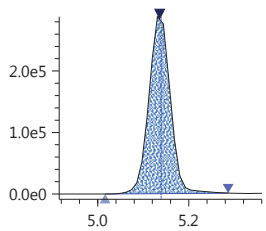
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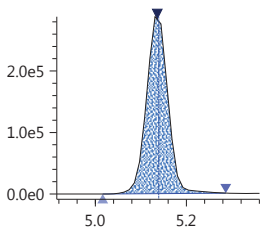
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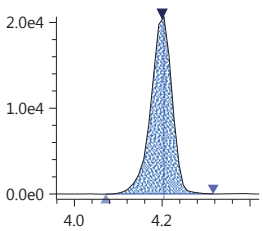
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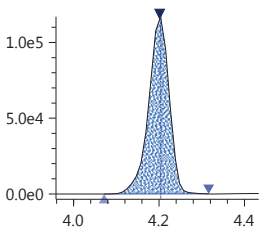
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Conc 5.0000
RT 5.136 Area 944798
ISTD 588.80>419.00 (-) 2.88e5



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Conc 0.9542
RT 4.200 Area 69775
Q 327.00>307.05 (-) 2.07e4



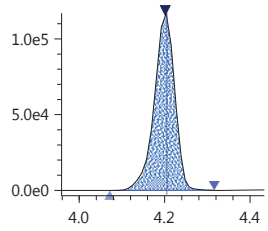
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Conc 3.1981
RT 4.201 Area 388893
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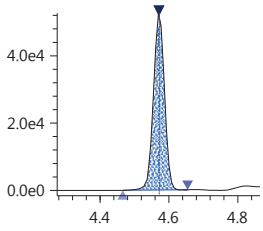
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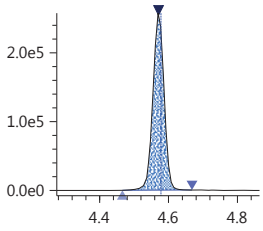
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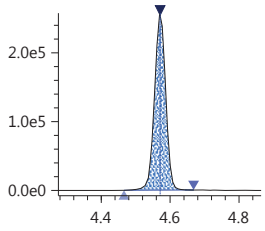
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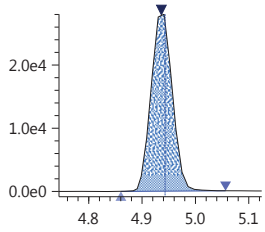
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Q 428.90>409.00 (-) 2.58e5



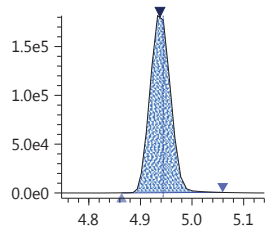
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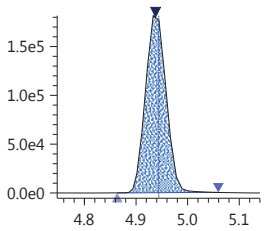
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Q 527.10>506.90 (-) 2.81e4



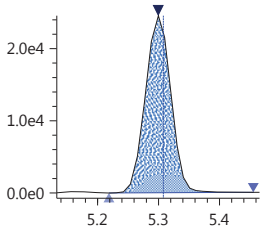
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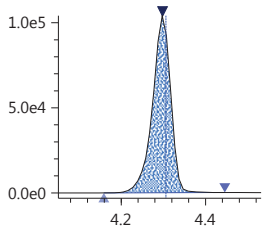
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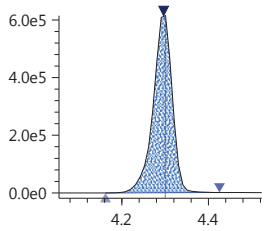
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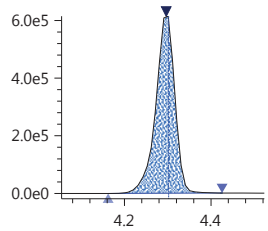
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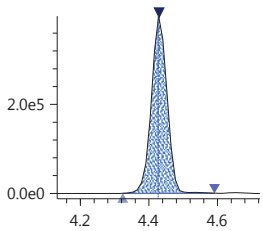
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Conc 4.6074
RT 4.296 Area 1882533
Q 332.00>286.80 (-) 6.15e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.296 Area 1882533
ISTD 332.00>286.80 (-) 6.15e5



ADONA
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Q 377.00>251.00 (-) 3.98e5



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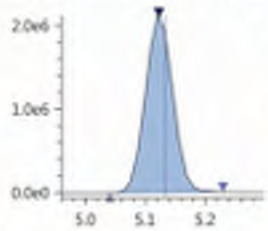
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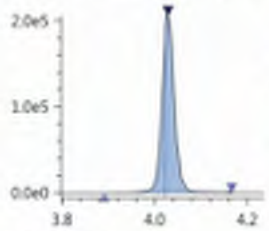
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Acquired by: System Administrator
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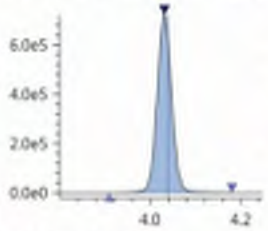
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Conc 5.0000
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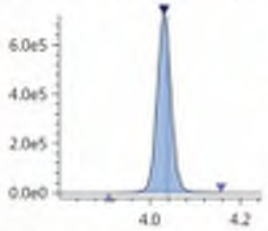
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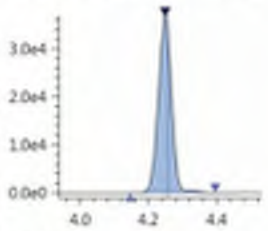
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Q 301.80>80.00 (-) 7.19e5



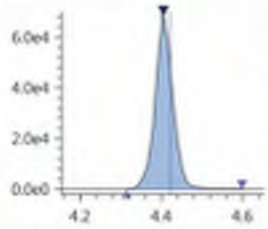
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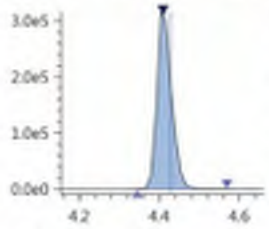
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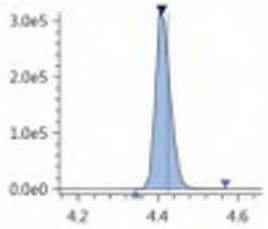
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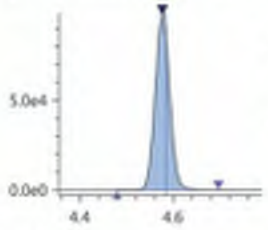
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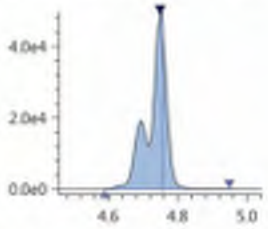
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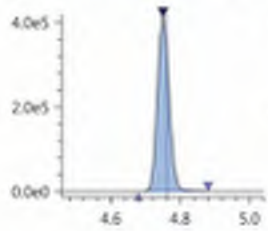
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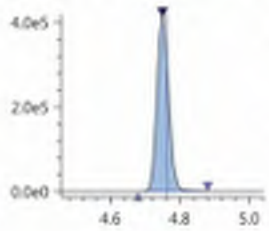
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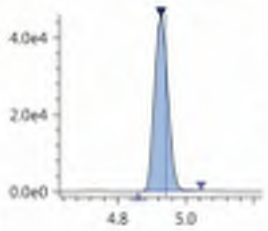
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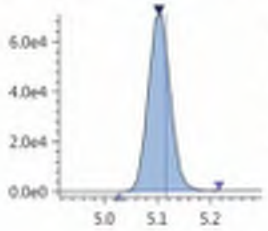
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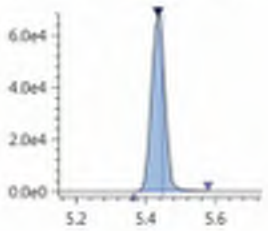
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Q 549.00>99.00 (-) 4.61e4



PFDS_1
Conc 1.0880
RT 5.103 Area 207718
Q 599.00>79.90 (-) 7.10e4



PFDOS
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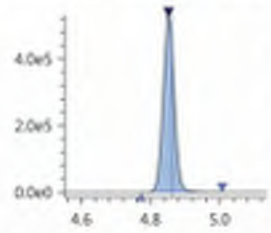


Manual Integration - Before

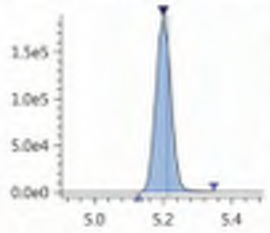
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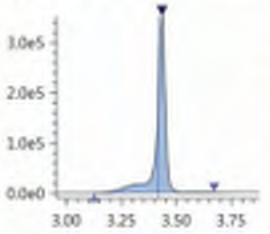
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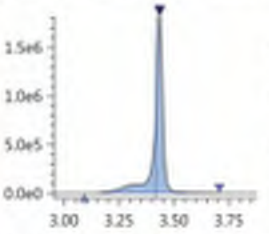
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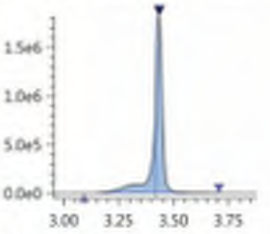
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Q 213.00>169.10 (-) 3.53e5



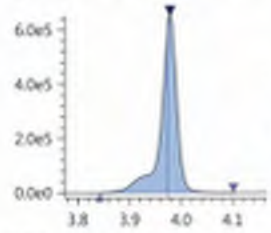
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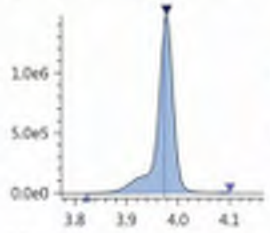
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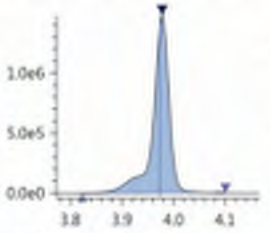
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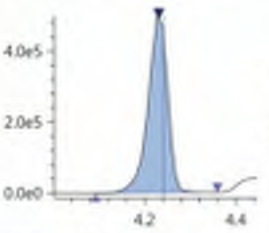
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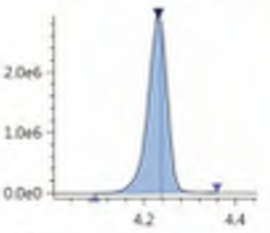
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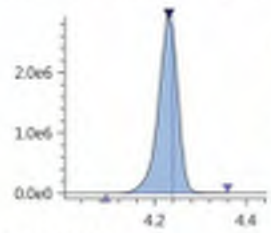
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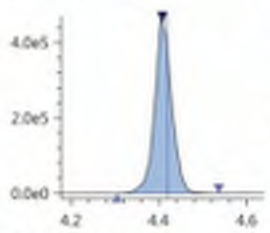
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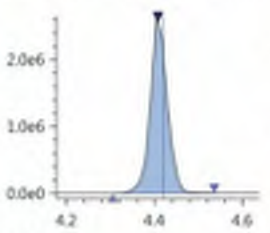
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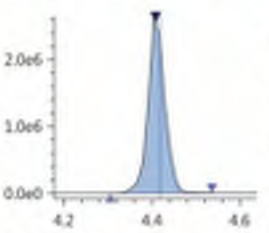
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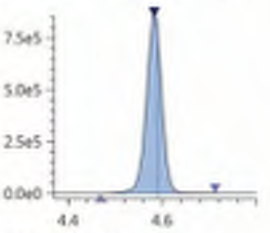
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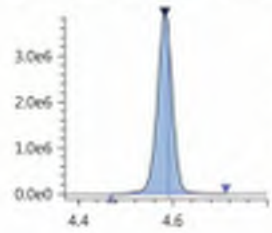
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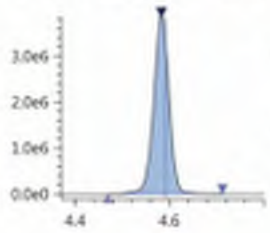
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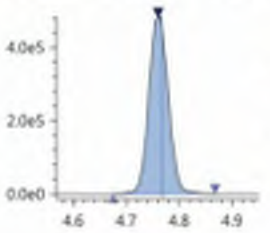
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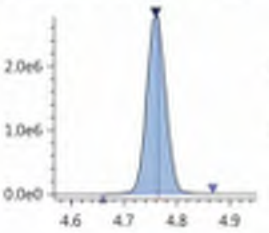
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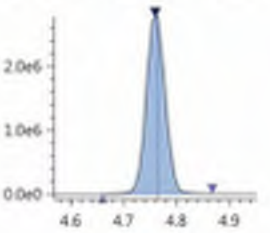
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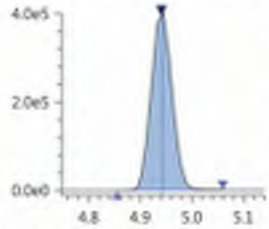
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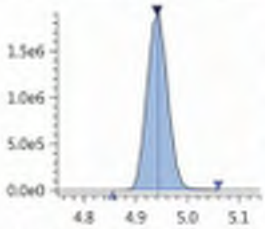
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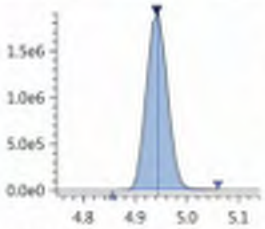
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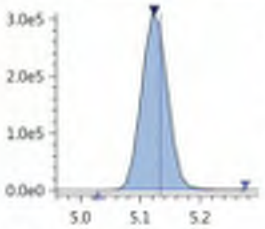
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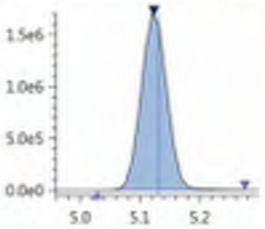
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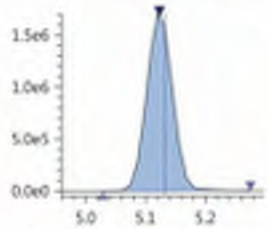
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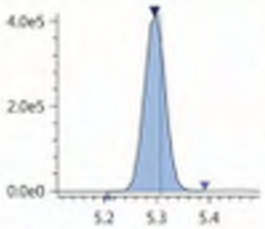
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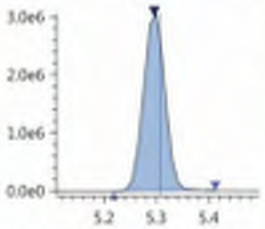
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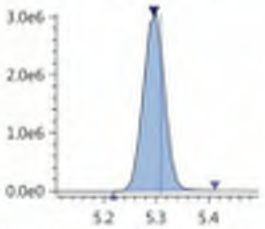
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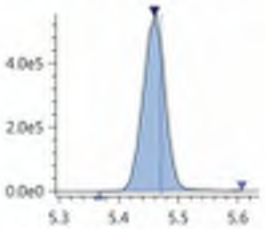
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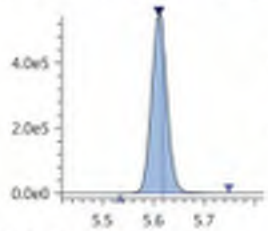
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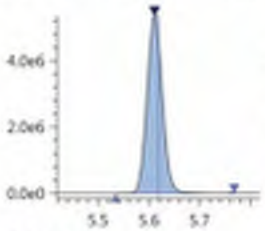
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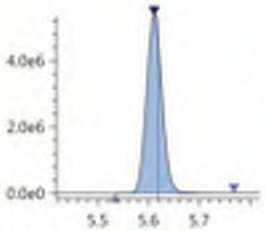
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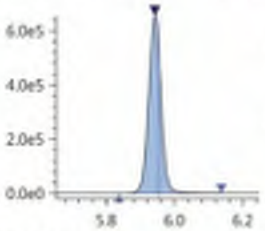
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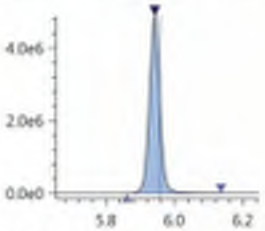
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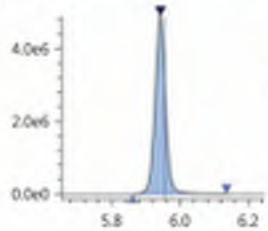
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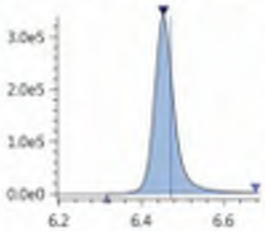
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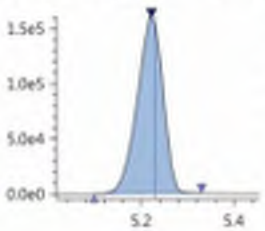
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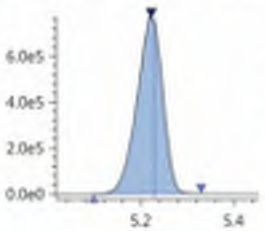
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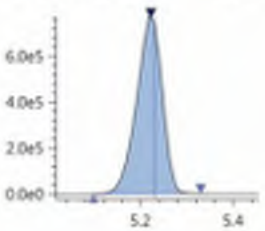
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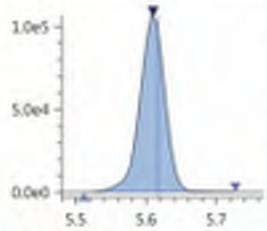
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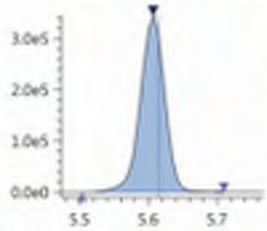
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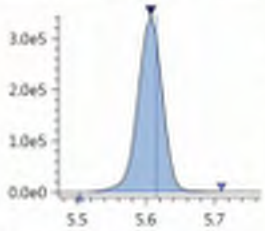
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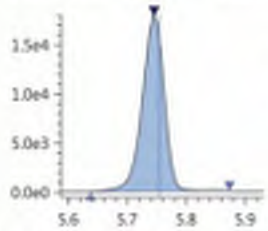
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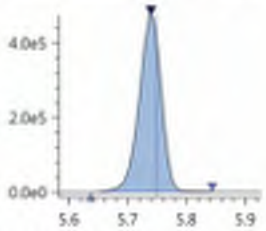
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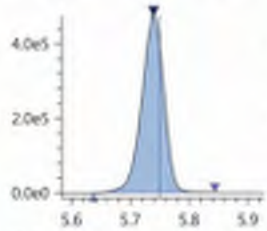
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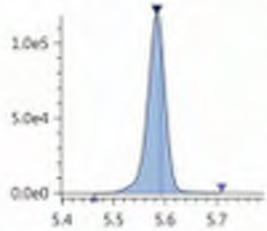
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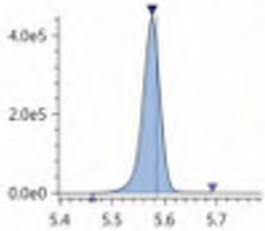
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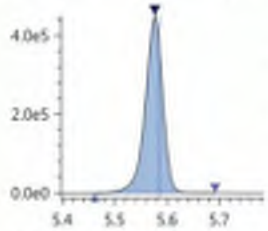
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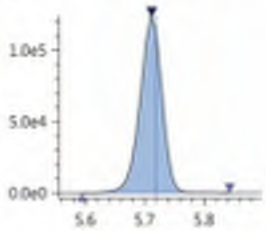
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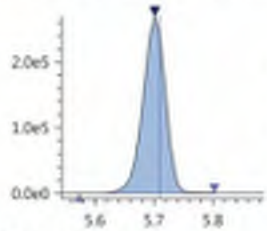
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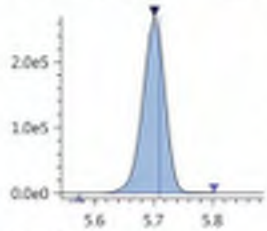
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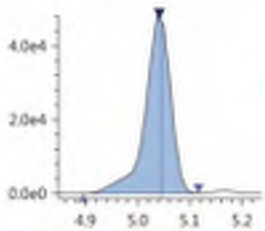
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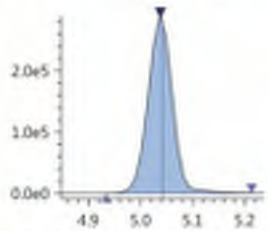
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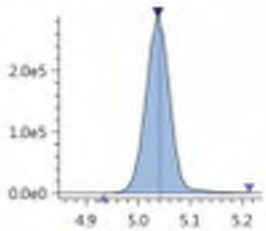
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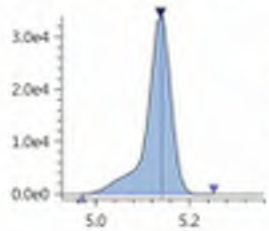
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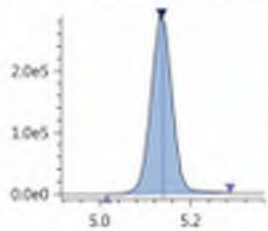
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RT 5.038 Area 939333
ISTD 572.80>419.05 (-) 2.89e5



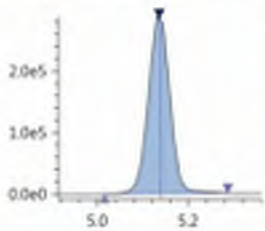
N-EtFOSAA
Conc 1.0546
RT 5.139 Area 123150
Q 584.20>418.95 (-) 3.39e4



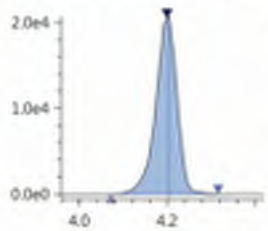
N-EtFOSAA-d5
Conc 6.5382
RT 5.136 Area 944798
Q 588.80>419.00 (-) 2.88e5



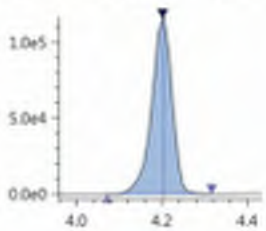
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.136 Area 944798
ISTD 588.80>419.00 (-) 2.88e5



4_2-FTS_1
Conc 0.9542
RT 4.200 Area 69775
Q 327.00>307.05 (-) 2.07e4



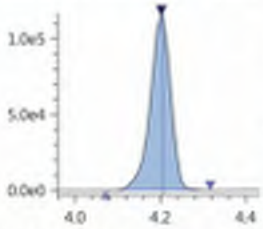
4_2-FTS-13C
Conc 3.1981
RT 4.201 Area 388893
Q 328.80>309.05 (-) 1.17e5



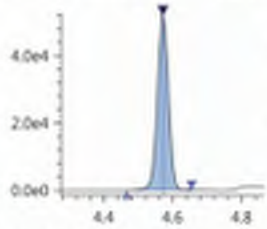
Insight Report

Printed at 9/24/2019 2:58:55 PM

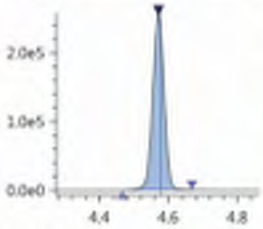
4_2-FTS-13C_IS
Conc 5.0000
RT 4.201 Area 388893
ISTD 328.80>309.05 (-) 1.17e5



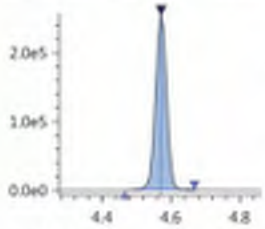
6_2-FTS_1
Conc 1.1038
RT 4.571 Area 116872
Q 427.00>407.00 (-) 5.27e4



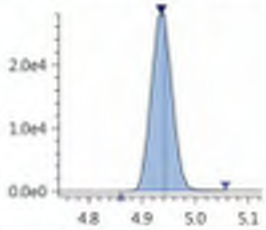
6_2-FTS-13C
Conc 4.4801
RT 4.571 Area 580669
Q 428.90>409.00 (-) 2.58e5



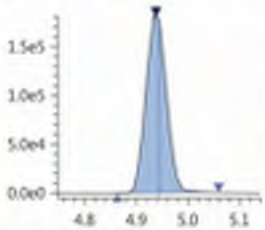
6_2-FTS-13C_IS
Conc 5.0000
RT 4.571 Area 580669
ISTD 428.90>409.00 (-) 2.58e5



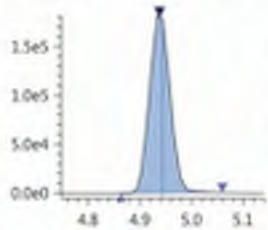
8_2-FTS_1
Conc 1.0396
RT 4.936 Area 78463
Q 527.10>506.90 (-) 2.81e4



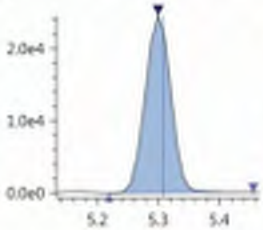
8_2-FTS-13C
Conc 6.3580
RT 4.938 Area 508422
Q 528.80>509.00 (-) 1.82e5



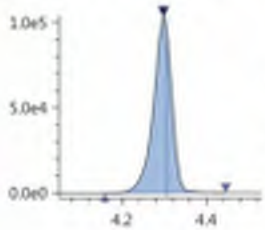
8_2-FTS-13C_IS
Conc 5.0000
RT 4.938 Area 508422
ISTD 528.80>509.00 (-) 1.82e5



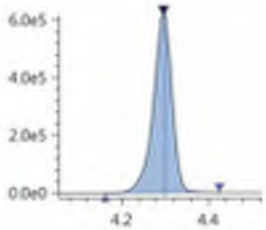
10_2-FtS_1
Conc 0.8729
RT 5.300 Area 71542
Q 627.00>606.95 (-) 2.46e4



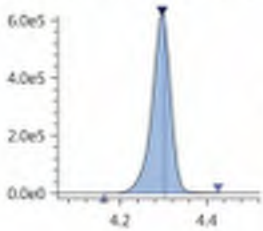
HPFO_DA
Conc 1.0177
RT 4.298 Area 311833
Q 329.00>169.00 (-) 1.04e5



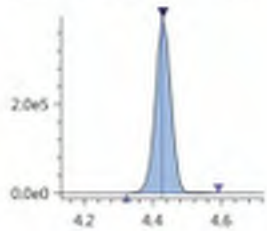
HFPO_DA-13C
Conc 4.6074
RT 4.296 Area 1882533
Q 332.00>286.80 (-) 6.15e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.296 Area 1882533
ISTD 332.00>286.80 (-) 6.15e5



ADONA
Conc 1.2205
RT 4.430 Area 1265894
Q 377.00>251.00 (-) 3.98e5



190917_curve

ICAL Date: 9/17/2019
Std. xp: Curve 2/28/2020 ICV 11/18/2019
ICAL ID: KC1900381
LIMS ID:

1st Review: Cmuller
2nd Review: SEP 17 2019
Column: Phenomenex EVO-C18 100X4.6 mm S/N: H19-206919
Mobile Phases **A:** 5mM Ammonium Acetate in H2O 19-OLC-02-48P **B:** 5mM Ammonium Acetate In MeOH 19-OLC-02-48Q

ALS Environmental
LCMS06 -Shimadzu 8050

	Sample Name	File Name	Acquisition Method	Dilution	R	
1	IB	19-OLC-01-51I	190917_005	PFAS_190816_35_CM.lcm	1x	☒	
2	0.05 PPB ICAL	19-OLC-01-51A	190917_006	PFAS_190816_35_CM.lcm	1x	☒	
3	0.10 PPB ICAL	19-OLC-01-51B	190917_007	PFAS_190816_35_CM.lcm	1x	☒	
4	0.50 PPB ICAL	19-OLC-01-51C	190917_008	PFAS_190816_35_CM.lcm	1x	☒	
5	1.0 PPB ICAL	19-OLC-01-51D	190917_009	PFAS_190816_35_CM.lcm	1x	☒	
6	5.0 PPB ICAL	19-OLC-01-51E	190917_010	PFAS_190816_35_CM.lcm	1x	☒	
7	10.0 PPB ICAL	19-OLC-01-51F	190917_011	PFAS_190816_35_CM.lcm	1x	☒	
8	15.0 PPB ICAL	19-OLC-01-51G	190917_012	PFAS_190816_35_CM.lcm	1x	☒	
9	IB	19-OLC-01-51I	190917_013	PFAS_190816_35_CM.lcm	1x	☒	
10	1.0 PPB ICV	19-OLC-01-51H	190917_014	PFAS_190816_35_CM.lcm	1x	☒	
11	IB	19-OLC-01-51I	190917_015	PFAS_190816_35_CM.lcm	1x		NR
12	T-PFOA	19-OLC-01-35A	190917_112	PFAS_190816_35_CM.lcm	1x	☒	T-PFOA accidently left off, All samples re-injected after T-PFOA

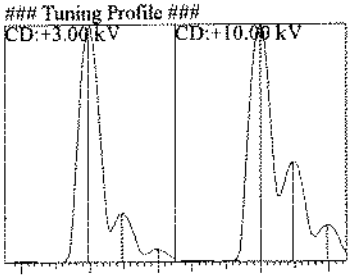
J:\LCMS06\Data\190917_curve\190917_curve inject log

Sample Information
Sample Type: PEG+PPG+Raffinose

Tuning Condition
Detector Adjustment: On
Resolution Adjustment: On
FWHM of Spectrum: 0.70
Sensitivity Adjustment: On
Mass Calibration: On

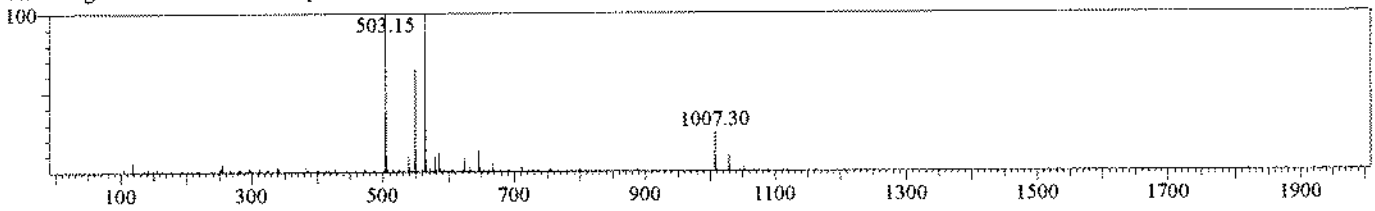
Tuning Result
Model: LCMS-8050
Interface: ESI
Polarity: Neg
Tuning Mode: Auto
Tuning Date: 9/17/2019 2:26:18 PM
Acquisition Mode: Q1 Scan(Use CID Gas)

Nebulizing Gas Flow: 1.50(settings : 1.50) L/min
Drying Gas Flow: 0.00(settings : 10.00) L/min
CID Gas Flow: 270(settings : 270) kPa
Interface Bias: -3.00 kV
Interface Current: 0.37 uA
DL Temp.: 250(settings : 250) C
Heat Block Temp.: 399(settings : 400) C
Q1 RF Gain: 5000
Q1 RF Offset: 5000
Q3 RF Gain: ---
Q3 RF Offset: ---
Q1 Post-rod Bias: 5.0 V
CID CELL Exit Lens: 3.5 V
Conversion Dynode: +10.00 kV
Detector: -2.10(-2.10) kV
PG Vacuum: 1.3e+002 Pa
IG Vacuum: 2.1e-003 Pa

Tuning Profile


Int.: 8744707 FWHM: 0.70 m/z : 503.15 Mag.: 2
Int.: 5228375 FWHM: 0.73 m/z : 1007.30 Mag.: 3

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 503.15 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15	503.15	0.00	0.70	8744707
1007.30	1007.30	0.00	0.73	5228375

D<0.5
cm 9/18/19

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
DL Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray RF	Scan	+50.0	+34.8	+90.0	+130.0	+130.0	+130.0	+130.0	+130.0
Multipole RF	Scan	+100.0	+30.0	+100.0	+130.0	+190.0	+300.0	+300.0	+300.0
Multipole1 Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Multipole1 Lens	Const	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8
Multipole2 Bias	Const	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8
Multipole2 Lens	Const	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2
Q1 Bias	Const	+3.5	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0
CC Lens1	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
CC Lens2	Const	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
CC Lens3	Const	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
CC RF	Scan	+200.0	+50.0	+110.0	+130.0	+300.0	+300.0	+300.0	+300.0
CE	Scan	+15.0	+15.0	+15.0	+16.0	+17.0	+21.0	+25.0	+25.0
Q3 Bias	Scan	+15.0	+15.0	+15.0	+15.1	+15.2	+15.6	+16.0	+17.0

		Const	107.15	1071.50	1893.40
Q1 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0
Q3 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0

SEP 17 2019

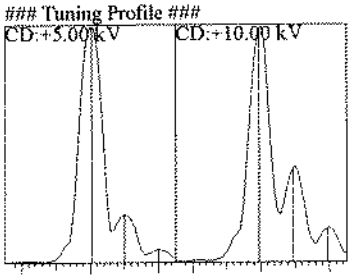
Sample Information
Sample Type: PEG+PPG+Raffinose

Tuning Condition
Detector Adjustment: On
Resolution Adjustment: On
FWHM of Spectrum: 0.70
Sensitivity Adjustment: On
Mass Calibration: On

Tuning Result
Model: LCMS-8050
Interface: ESI
Polarity: Neg
Tuning Mode: Auto
Tuning Date: 9/17/2019 2:32:53 PM
Acquisition Mode: Q3 Scan(Use CID Gas)

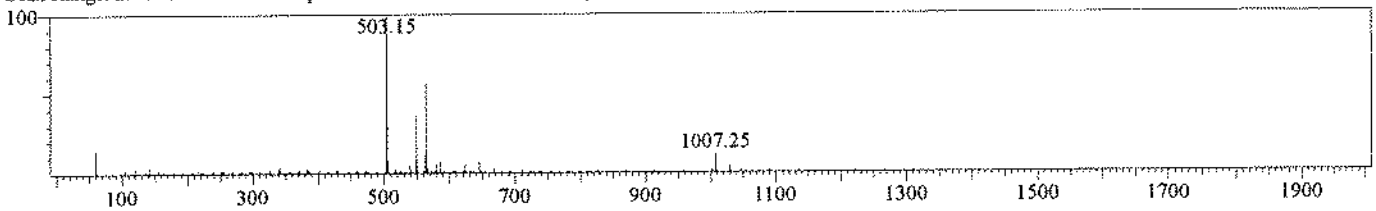
Nebulizing Gas Flow: 1.50(settings : 1.50) L/min
Drying Gas Flow: 0.00(settings : 10.00) L/min
CID Gas Flow: 270(settings : 270) kPa
Interface Bias: -3.00 kV
Interface Current: 0.39 uA
DL Temp.: 249(settings : 250) C
Heat Block Temp.: 399(settings : 400) C
Q1 RF Gain: ---
Q1 RF Offset: ---
Q3 RF Gain: 4999
Q3 RF Offset: 5000
Q1 Post-rod Bias: 5.0 V
CID CELL Exit Lens: 3.5 V
Conversion Dynode: +10.00 kV
Detector: -2.10(-2.10) kV
PG Vacuum: 1.3e+002 Pa
IG Vacuum: 2.1e-003 Pa

Tuning Profile



Int.: 13115944 FWHM: 0.75 m/z : 503.15 Mag.: 1
Int.: 2341941 FWHM: 0.68 m/z : 1007.30 Mag.: 8

Scan Range: 2.00 - 2000.00 Scan Speed: 30 u/s Base Peak: 503.15 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15	503.15	0.00	0.75	13115944
1007.30	1007.25	-0.05	0.68	2341941

D<0.5
cm 9/18/19

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
DL Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray RF	Scan	+50.0	+34.8	+90.0	+130.0	+130.0	+130.0	+130.0	+130.0
Multipole RF	Scan	+100.0	+30.0	+100.0	+130.0	+190.0	+300.0	+300.0	+300.0
Multipole1 Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Multipole1 Lens	Const	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8
Multipole2 Bias	Const	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8
Multipole2 Lens	Const	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2
Q1 Bias	Const	+3.5	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0
CC Lens1	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
CC Lens2	Const	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
CC Lens3	Const	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
CC RF	Scan	+200.0	+50.0	+110.0	+130.0	+300.0	+300.0	+300.0	+300.0
CE	Scan	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0
Q3 Bias	Scan	+7.0	+7.0	+7.0	+7.1	+7.2	+7.6	+8.0	+9.0

		Const	107.15	1071.50	1893.40
Q1 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0
Q3 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0

SEP 17 2019

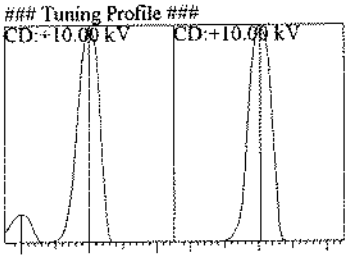
Sample Information
Sample Type: PEG+PPG+Raffinose

Tuning Condition
Detector Adjustment: On
Resolution Adjustment: On
FWHM of Spectrum: 0.70
Sensitivity Adjustment: On
Mass Calibration: On

Tuning Result
Model: LCMS-8050
Interface: ESI
Polarity: Neg
Tuning Mode: Auto
Tuning Date: 9/17/2019 2:36:49 PM
Acquisition Mode: Product Scan

Nebulizing Gas Flow: 1.50(settings : 1.50) L/min
Drying Gas Flow: 0.00(settings : 10.00) L/min
CID Gas Flow: 270(settings : 270) kPa
Interface Bias: -3.00 kV
Interface Current: 0.39 uA
DL Temp.: 249(settings : 250) C
Heat Block Temp.: 399(settings : 400) C
Q1 RF Gain: 5000
Q1 RF Offset: 5000
Q3 RF Gain: 4999
Q3 RF Offset: 5005
Q1 Post-rod Bias: 5.0 V
CID CELL Exit Lens: -0.3 V
Conversion Dynode: +10.00 kV
Detector: -2.10(-2.10) kV
PG Vacuum: 1.3e+002 Pa
IG Vacuum: 2.1e-003 Pa

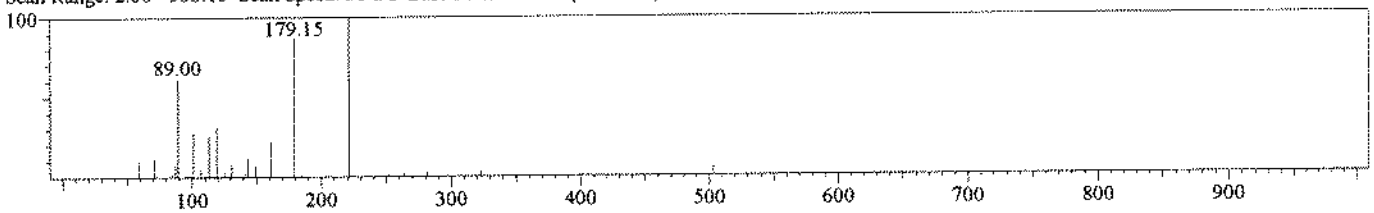
Tuning Profile



Int.: 2123101 FWHM: 0.73 m/z : 89.00 Pre m/z: 503.15 Mag.: 9

Int.: 3151491 FWHM: 0.76 m/z : 179.05 Pre m/z: 503.15 Mag.: 6

Scan Range: 2.00 - 553.15 Scan Speed: 30 u/s Base Peak: 221.15 (3583417) Pre m/z: 503.15



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15 > 89.00	89.00	0.00	0.73	2123101
503.15 > 179.05	179.15	0.10	0.76	3151491

D<0.5 cm 9/18/19

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
DL Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray RF	Scan	+50.0	+34.8	+90.0	+130.0	+130.0	+130.0	+130.0	+130.0
Multipole RF	Scan	+100.0	+30.0	+100.0	+130.0	+190.0	+300.0	+300.0	+300.0
Multipole1 Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Multipole1 Lens	Const	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8
Multipole2 Bias	Const	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8	+0.8
Multipole2 Lens	Const	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2	+1.2
Q1 Bias	Const	+3.5	+3.5	+3.5	+3.5	+3.5	+3.5	+3.5	+3.5
CC Lens1	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
CC Lens2	Const	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
CC Lens3	Const	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0

		Const	45.05	89.05	133.10	168.10	1893.40
CC RF	Scan	+100.0	+100.0	+100.0	+300.0	+300.0	+300.0
CE	Scan	+30.0	+30.0	+30.0	+30.0	+30.0	+30.0
Q3 Bias	Scan	+7.0	+7.0	+7.0	+7.0	+7.0	+9.0

		Const	107.15	1071.50	1893.40
Q1 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0
Q3 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0

SEP 17 2019

Insight Report

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Method File: J:\LCMS06\Data\190917_curve\190917_curve.lcm
Project File: J:\LCMS06\Data\190917_curve\190917_curve.damlp
Flags File: J:\LCMS06\Data\190917_curve\190917_curve.damlp

190917_005

Sample ID: IB
Date acquired: 9/17/2019 3:40:53 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_005.lcd
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.152	6188968	6188968	1	5.0000	ng/mL	----
PFBS_1	ND(W/B)	----	----	1300007	2	----	ng/mL	----
PFBS-13C	Auto	4.048	1316152	6188968	1	4.5754	ng/mL	----
PFBS-13C_IS	Auto	4.048	1300007	1300007	2	5.0000	ng/mL	----
PFPeS	ND(W/B)	----	----	1300007	2	----	ng/mL	----
PFHxS_1	M	4.435	2140	717422	3	-0.0232	ng/mL	----
PFHxS-18O	Auto	4.432	717422	6188968	1	5.0389	ng/mL	----
PFHxS-18O_IS	Auto	4.432	717422	717422	3	5.0000	ng/mL	----
PFHpS_1	ND(W/B)	----	----	717422	3	----	ng/mL	----
PFOS_1	ND(W/B)	----	----	952381	4	----	ng/mL	----
PFOS-13C	Auto	4.774	952381	6188968	1	4.5895	ng/mL	----
PFOS-13C_IS	Auto	4.774	952381	952381	4	5.0000	ng/mL	----
PFNS	ND(W/B)	----	----	952381	4	----	ng/mL	----
PFDS_1	ND(W/B)	----	----	952381	4	----	ng/mL	----
PFDOS	ND(W/B)	----	----	952381	4	----	ng/mL	----
9Cl-PF3ONS	M	4.875	277	2331328	26	0.0002	ng/mL	----
11Cl-PF3OUdS	ND(W/B)	----	----	2331328	26	----	ng/mL	----
PFBA	M	3.468	2254	6043705	5	0.0024	ng/mL	----
PFBA-13C	Auto	3.465	6043705	6188968	1	5.3823	ng/mL	----
PFBA-13C_IS	Auto	3.465	6043705	6043705	5	5.0000	ng/mL	----
PFPeA	M	3.998	117781	2999871	6	-0.0041	ng/mL	----
PFPeA-13C	Auto	3.998	2999871	6188968	1	5.2587	ng/mL	----
PFPeA-13C_IS	Auto	3.998	2999871	2999871	6	5.0000	ng/mL	----
PFHxA	M	4.248	22031	7556143	7	-0.0058	ng/mL	----
PFHxA-13C	Auto	4.251	7556143	6188968	1	5.4952	ng/mL	----
PFHxA-13C_IS	Auto	4.251	7556143	7556143	7	5.0000	ng/mL	----
PFHpA	M	4.424	15241	4110331	8	0.0005	ng/mL	----
PFHpA-13C	Auto	4.430	4110331	6188968	1	4.4197	ng/mL	----
PFHpA-13C_IS	Auto	4.430	4110331	4110331	8	5.0000	ng/mL	----
PFOA	M	4.605	21807	8071796	9	-0.0078	ng/mL	----
PFOA-13C	Auto	4.606	8071796	6188968	1	5.3874	ng/mL	----
PFOA-13C_IS	Auto	4.606	8071796	8071796	9	5.0000	ng/mL	----
PFNA	M	4.787	4339	5295292	10	-0.0201	ng/mL	----
PFNA-13C	Auto	4.784	5295292	6188968	1	5.0185	ng/mL	----
PFNA-13C_IS	Auto	4.784	5295292	5295292	10	5.0000	ng/mL	----
PFDA	ND(W/B)	----	----	3862476	11	----	ng/mL	----
PFDA-13C	Auto	4.968	3862476	6188968	1	4.4252	ng/mL	----
PFDA-13C_IS	Auto	4.968	3862476	3862476	11	5.0000	ng/mL	----
PFUnA	M	5.150	10922	5193116	12	-0.0059	ng/mL	----
PFUnA-13C	Auto	5.152	5193116	6188968	1	5.2936	ng/mL	----
PFUnA-13C_IS	Auto	5.152	5193116	5193116	12	5.0000	ng/mL	----
PFDoA	ND(W/B)	----	----	6751537	13	----	ng/mL	----
PFDoA-13C	Auto	5.327	6751537	6188968	1	5.6711	ng/mL	----
PFDoA-13C_IS	Auto	5.327	6751537	6751537	13	5.0000	ng/mL	----
PFTrDA	M	5.480	4809	4417581	14	0.0013	ng/mL	----
PFTeDA	Auto	5.640	56129	4417581	14	0.0101	ng/mL	----
PFTeDA-13C	Auto	5.640	4417581	6188968	1	4.6747	ng/mL	----
PFTeDA-13C_IS	Auto	5.640	4417581	4417581	14	5.0000	ng/mL	----
PFHxDA	M	5.989	58934	5869599	15	-0.0027	ng/mL	----
13C-PFHxDA	Auto	5.988	5869599	6188968	1	4.8600	ng/mL	----
13C-PFHxDA_IS	Auto	5.988	5869599	5869599	15	5.0000	ng/mL	----
PFODA	M	6.522	1889	5869599	15	0.0028	ng/mL	----
FOSA	Auto	5.243	3554	2546437	16	0.0056	ng/mL	----
FOSA-13C	Auto	5.240	2546437	6188968	1	4.9387	ng/mL	----
FOSA-13C_IS	Auto	5.240	2546437	2546437	16	5.0000	ng/mL	----
N-MeFOSA	M	5.621	2124	785653	17	0.0095	ng/mL	----
N-MeFOSA-d3	Auto	5.622	785653	6188968	1	4.9884	ng/mL	----
N-MeFOSA-d3_IS	Auto	5.622	785653	785653	17	5.0000	ng/mL	----
N-EtFOSA	ND(W/B)	----	----	1042400	18	----	ng/mL	----
N-EtFOSA-d9	Auto	5.758	1042400	6188968	1	4.8431	ng/mL	----
N-EtFOSA-d9_IS	Auto	5.758	1042400	1042400	18	5.0000	ng/mL	----
N-MeFOSE	ND(W/B)	----	----	908990	19	----	ng/mL	----
N-MeFOSE-d7	Auto	5.589	908990	6188968	1	4.7600	ng/mL	----
N-MeFOSE-d7_IS	Auto	5.589	908990	908990	19	5.0000	ng/mL	----

Insight Report

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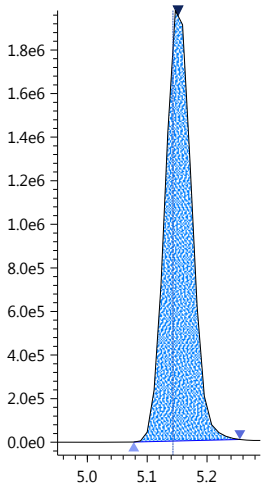
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-EtFOSE	ND(W/B)	----	----	918811	20	----	ng/mL	----
N-EtFOSE-d9	Auto	5.716	918811	6188968	1	4.7195	ng/mL	----
N-EtFOSE-d9_IS	Auto	5.716	918811	918811	20	5.0000	ng/mL	----
N-MeFOSAA	ND(W/B)	----	----	545344	21	----	ng/mL	----
N-MeFOSAA-d3	Auto	5.065	545344	6188968	1	5.6614	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.065	545344	545344	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	455988	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.162	455988	6188968	1	5.1844	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.162	455988	455988	22	5.0000	ng/mL	----
4_2-FTS_1	M	4.184	549	693567	23	0.0046	ng/mL	----
4_2-FTS-13C	Auto	4.220	693567	6188968	1	6.3555	ng/mL	----
4_2-FTS-13C_IS	Auto	4.220	693567	693567	23	5.0000	ng/mL	----
6_2-FTS_1	M	4.586	1036	431141	24	0.0114	ng/mL	----
6_2-FTS-13C	Auto	4.592	431141	6188968	1	4.6795	ng/mL	----
6_2-FTS-13C_IS	Auto	4.592	431141	431141	24	5.0000	ng/mL	----
8_2-FTS_1	ND(W/B)	----	----	334224	25	----	ng/mL	----
8_2-FTS-13C	Auto	4.963	334224	6188968	1	5.5528	ng/mL	----
8_2-FTS-13C_IS	Auto	4.963	334224	334224	25	5.0000	ng/mL	----
10_2-FtS_1	ND(W/B)	----	----	334224	25	----	ng/mL	----
HPFO_DA	M	4.309	618	2331328	26	0.0015	ng/mL	----
HFPO_DA-13C	Auto	4.316	2331328	6188968	1	5.8621	ng/mL	----
HFPO_DA-13C_IS	Auto	4.316	2331328	2331328	26	5.0000	ng/mL	----
ADONA	ND(W/B)	----	----	2331328	26	----	ng/mL	----

13C7-PFUnDA_IS

Conc 5.0000
RT 5.152 Area 6188968

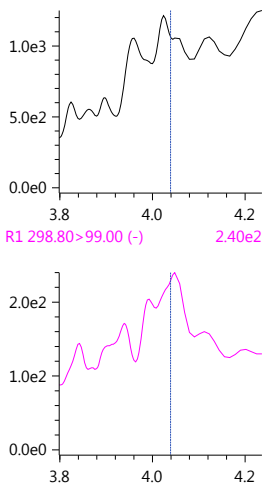
ISTD 570.00>525.00 (-) 1.98e6



PFBS_1

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

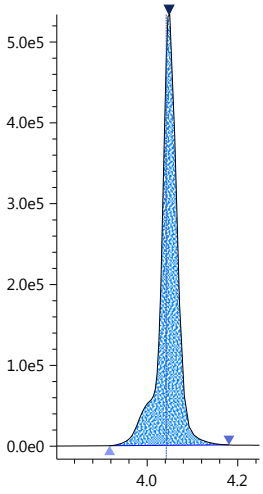
Q 299.00>80.00 (-) 1.25e3



PFBS-13C

Conc 4.5754
RT 4.048 Area 1316152

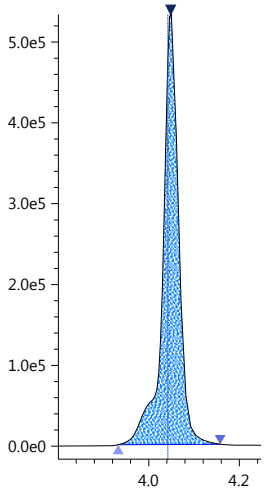
Q 301.80>80.00 (-) 5.34e5



PFBS-13C_IS

Conc 5.0000
RT 4.048 Area 1300007

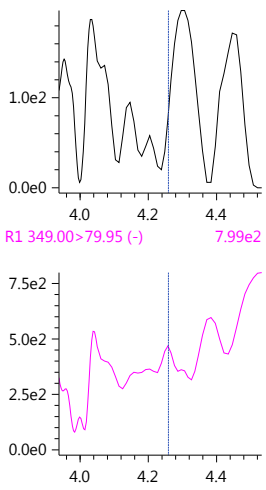
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PFPeS

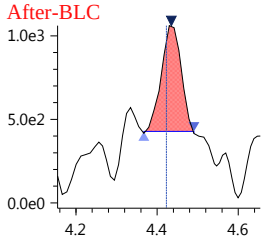
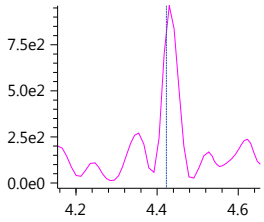
Conc ----
RT ---- Area ----
R#1 ---- (0.00)

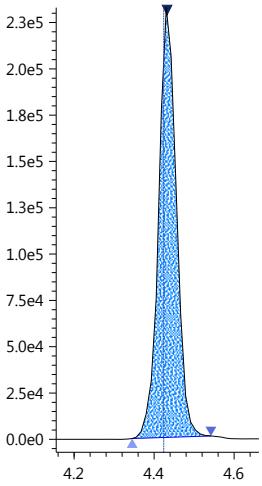
Q 349.00>99.00 (-) 1.97e2

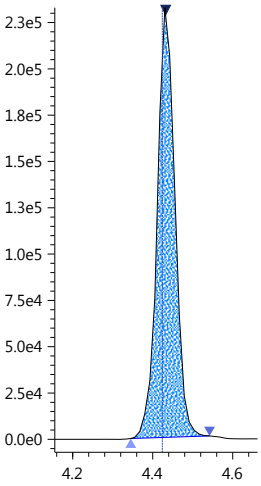


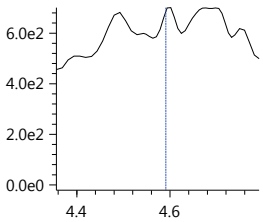
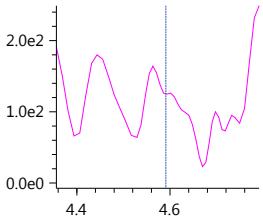
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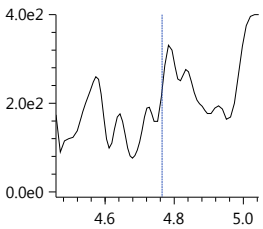
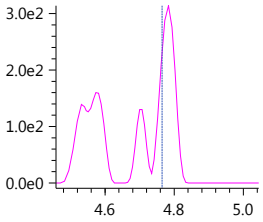
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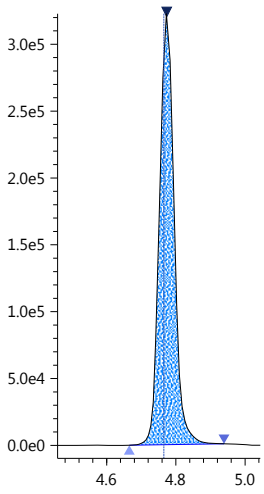
PFHxS_1
Conc -0.0232
RT 4.435 Area 2140
R#1 110.88 (0.00)
Q 399.00>80.00 (-) 1.06e3
After-BLC

R1 399.00>99.00 (-) 9.62e2


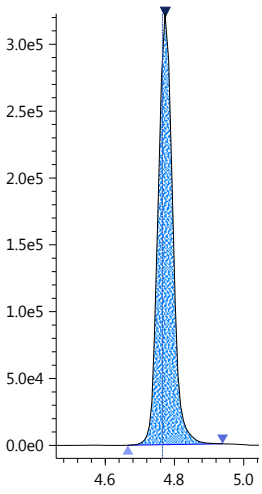
PFHxS-18O
Conc 5.0389
RT 4.432 Area 717422
Q 402.70>84.05 (-) 2.33e5


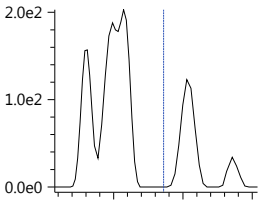
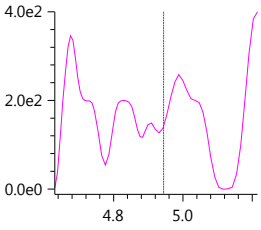
PFHxS-18O_IS
Conc 5.0000
RT 4.432 Area 717422
ISTD 402.70>84.05 (-) 2.33e5


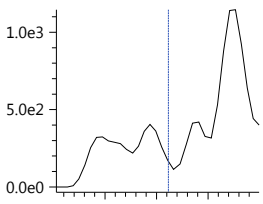
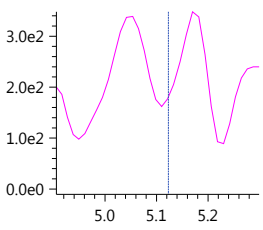
PFHpS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 449.00>80.15 (-) 7.01e2

R1 449.00>99.20 (-) 2.49e2


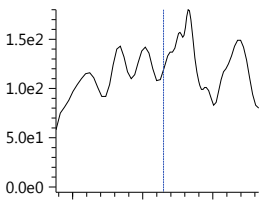
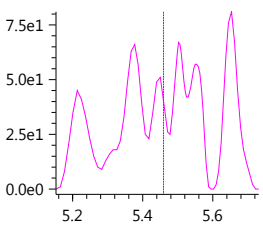
PFOS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 499.00>80.00 (-) 4.00e2

R1 499.00>99.00 (-) 3.14e2


PFOS-13C
Conc 4.5895
RT 4.774 Area 952381
Q 502.80>80.05 (-) 3.23e5


PFOS-13C_IS
Conc 5.0000
RT 4.774 Area 952381
ISTD 502.80>80.05 (-) 3.23e5


PFNS
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 549.00>99.00 (-) 2.03e2

R1 549.00>79.95 (-) 4.00e2


PFDS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 599.00>79.90 (-) 1.15e3

R1 599.00>99.10 (-) 3.48e2


PFDOS
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 699.00>79.95 (-) 1.80e2

R1 699.00>99.05 (-) 8.10e1


Insight Report

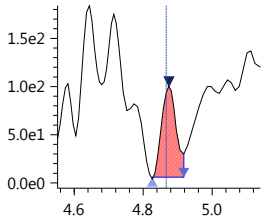
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9Cl-PF3ONS

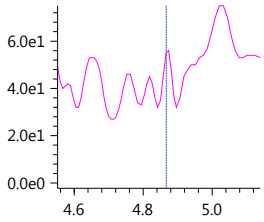
Conc 0.0002
RT 4.875 Area 277
R#1 11.63 (0.00)

Q 531.00>351.00 (-) 1.84e2

After-WP



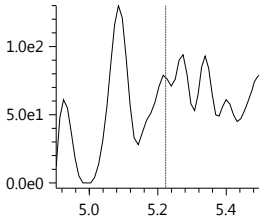
R1 531.00>98.90 (-) 7.50e1



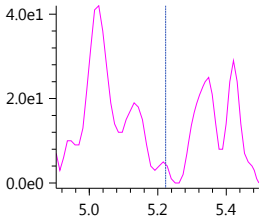
11Cl-PF3OUdS

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 631.00>451.05 (-) 1.30e2



R1 631.00>98.90 (-) 4.20e1

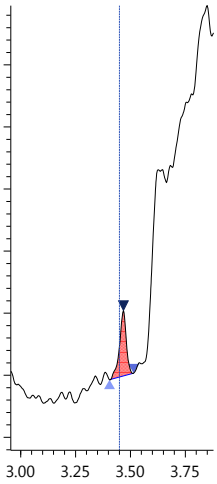


PFBA

Conc 0.0024
RT 3.468 Area 2254

After-MP

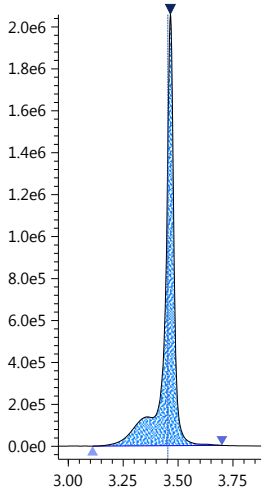
Q 213.00>169.10 (-) 6.96e3



PFBA-13C

Conc 5.3823
RT 3.465 Area 6043705

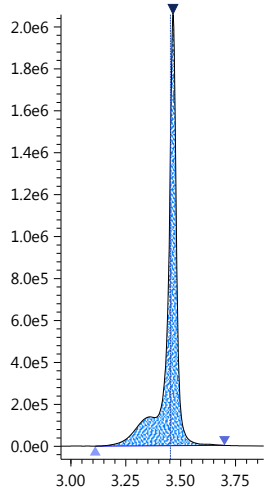
Q 216.90>172.15 (-) 2.06e6



PFBA-13C_IS

Conc 5.0000
RT 3.465 Area 6043705

ISTD 216.90>172.15 (-) 2.06e6

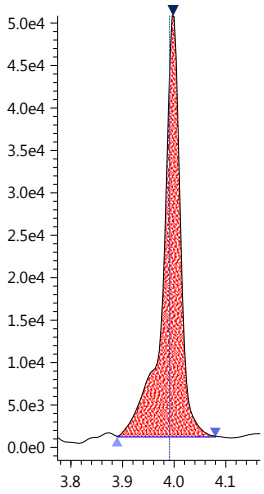


PFPeA

Conc -0.0041
RT 3.998 Area 117781

After-BLC

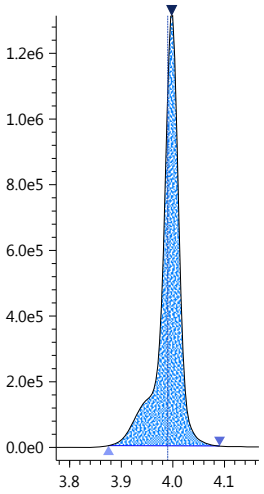
Q 263.05>219.10 (-) 5.09e4



PFPeA-13C

Conc 5.2587
RT 3.998 Area 2999871

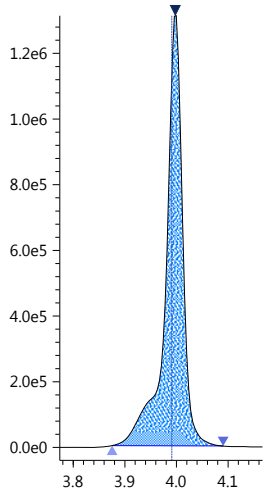
Q 267.90>223.00 (-) 1.31e6



PFPeA-13C_IS

Conc 5.0000
RT 3.998 Area 2999871

ISTD 267.90>223.00 (-) 1.31e6

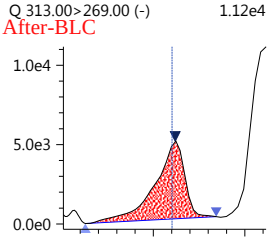


PFHxA

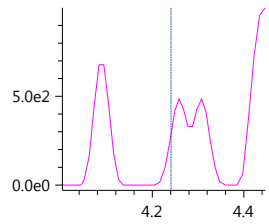
Conc -0.0058
RT 4.248 Area 22031
R#1 4.36 (0.00)

Q 313.00>269.00 (-) 1.12e4

After-BLC



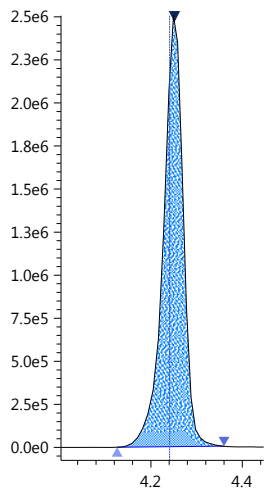
R1 313.00>119.10 (-) 9.99e2



PFHxA-13C

Conc 5.4952
RT 4.251 Area 7556143

Q 314.90>270.10 (-) 2.51e6



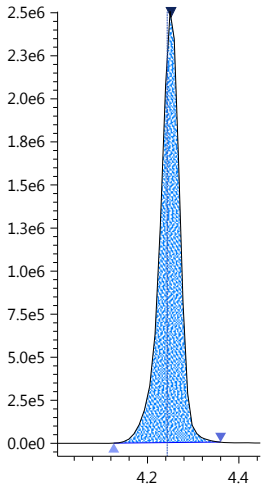
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PFHxA-13C_IS

Conc 5.0000
RT 4.251 Area 7556143

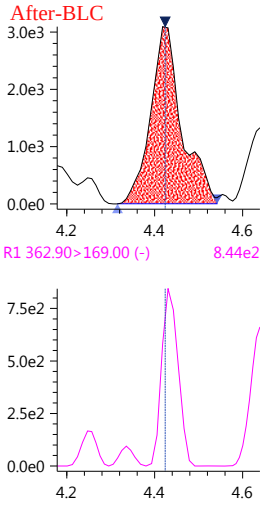
ISTD 314.90>270.10 (-) 2.51e6



PFHpA

Conc 0.0005
RT 4.424 Area 15241
R#1 25.74 (0.00)

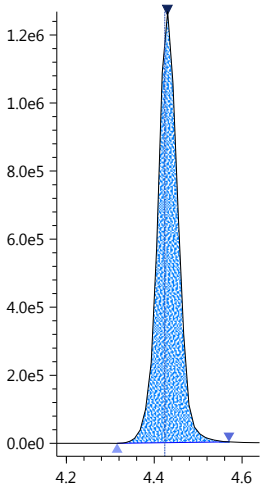
Q 362.90>319.00 (-) 3.09e3



PFHpA-13C

Conc 4.4197
RT 4.430 Area 4110331

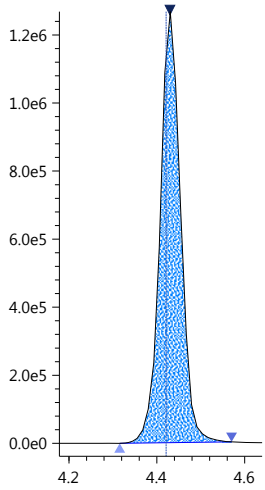
Q 366.90>322.10 (-) 1.27e6



PFHpA-13C_IS

Conc 5.0000
RT 4.430 Area 4110331

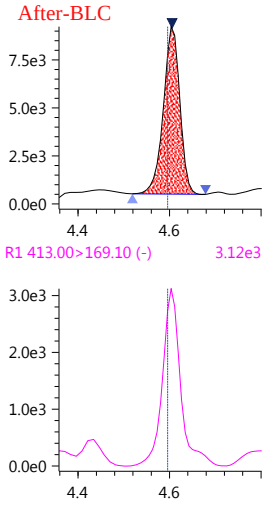
ISTD 366.90>322.10 (-) 1.27e6



PFOA

Conc -0.0078
RT 4.605 Area 21807
R#1 34.84 (0.00)

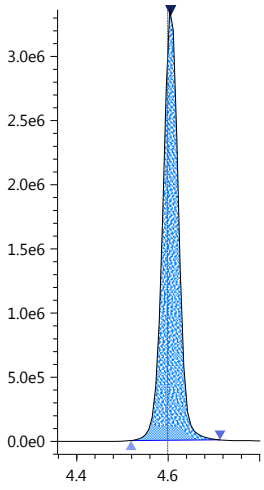
Q 413.00>369.00 (-) 9.23e3



PFOA-13C

Conc 5.3874
RT 4.606 Area 8071796

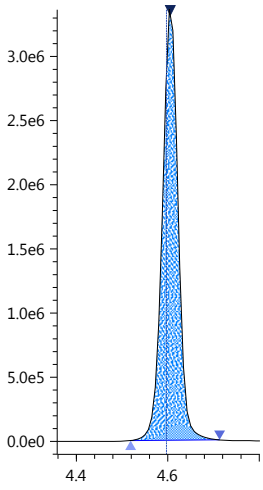
Q 416.80>372.05 (-) 3.36e6



PFOA-13C_IS

Conc 5.0000
RT 4.606 Area 8071796

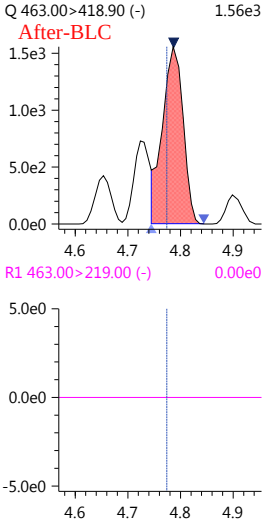
ISTD 416.80>372.05 (-) 3.36e6



PFNA

Conc -0.0201
RT 4.787 Area 4339
R#1 0.00 (0.00)

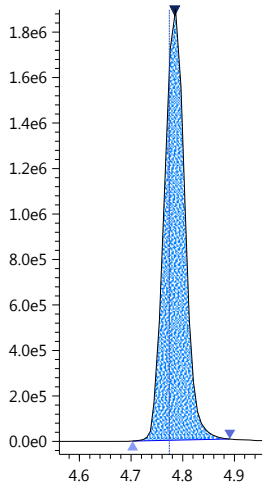
Q 463.00>418.90 (-) 1.56e3



PFNA-13C

Conc 5.0185
RT 4.784 Area 5295292

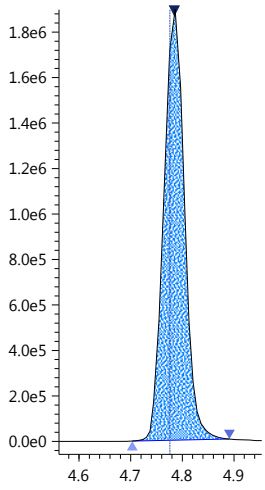
Q 467.80>423.00 (-) 1.90e6



PFNA-13C_IS

Conc 5.0000
RT 4.784 Area 5295292

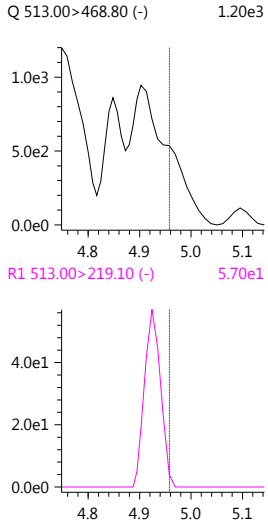
ISTD 467.80>423.00 (-) 1.90e6



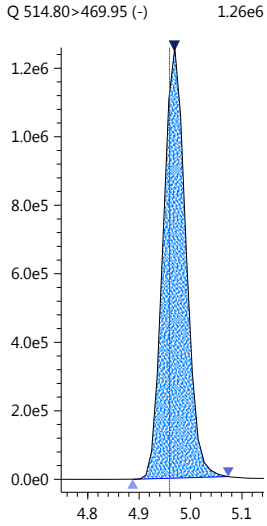
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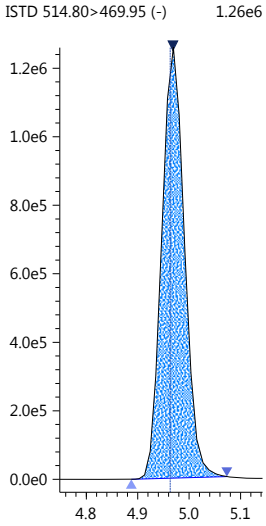
PFDA
Conc ----
RT ---- Area ----
R#1 ---- (0.00)



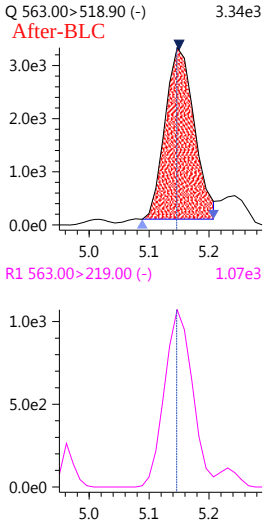
PFDA-13C
Conc 4.4252
RT 4.968 Area 3862476



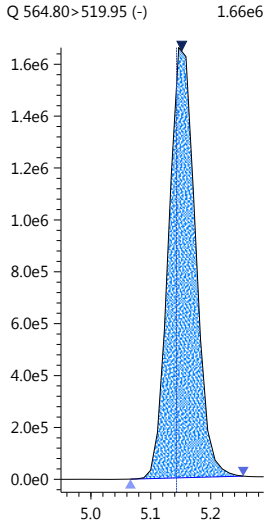
PFDA-13C_IS
Conc 5.0000
RT 4.968 Area 3862476



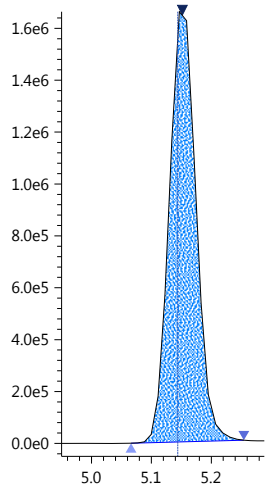
PFUnA
Conc -0.0059
RT 5.150 Area 10922
R#1 33.26 (0.00)



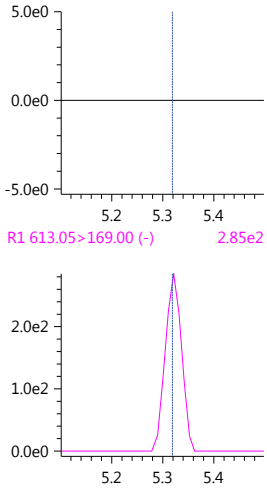
PFUnA-13C
Conc 5.2936
RT 5.152 Area 5193116



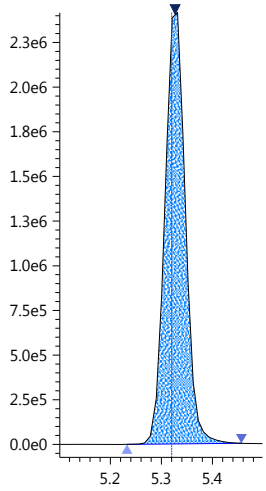
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Conc 5.0000
RT 5.152 Area 5193116



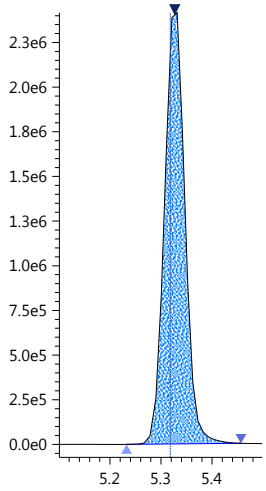
PFDoA
Conc ----
RT ---- Area ----
R#1 ---- (0.00)



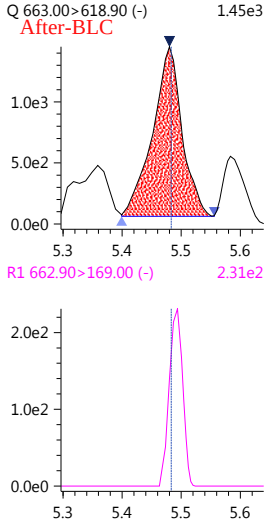
PFDoA-13C
Conc 5.6711
RT 5.327 Area 6751537



PFDoA-13C_IS
Conc 5.0000
RT 5.327 Area 6751537



PFTrDA
Conc 0.0013
RT 5.480 Area 4809
R#1 7.02 (0.00)

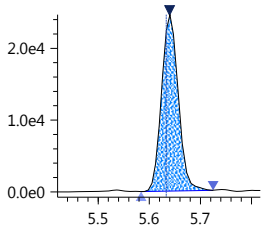


Insight Report

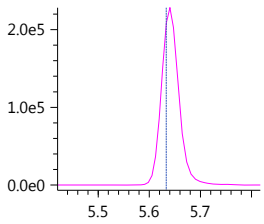
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PFTeDA
Conc 0.0101
RT 5.640 Area 56129
R#1 925.44 (0.00)

Q 713.40>669.00 (-) 2.47e4

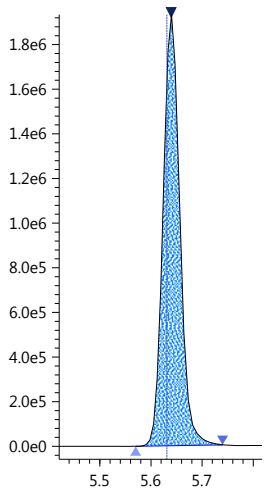


R1 713.40>169.10 (-) 2.28e5



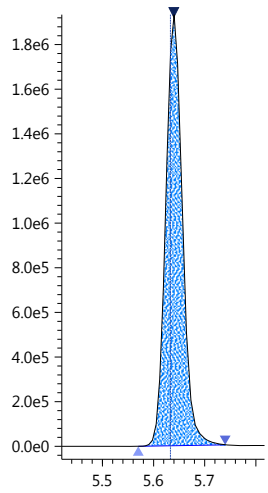
PFTeDA-13C
Conc 4.6747
RT 5.640 Area 4417581

Q 714.70>669.90 (-) 1.93e6



PFTeDA-13C_IS
Conc 5.0000
RT 5.640 Area 4417581

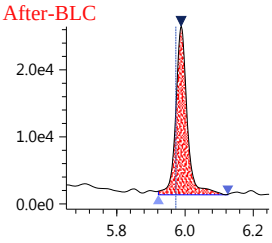
ISTD 714.70>669.90 (-) 1.93e6



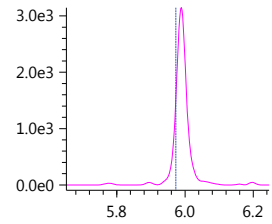
PFHxDA
Conc -0.0027
RT 5.989 Area 58934
R#1 12.98 (0.00)

Q 813.00>769.05 (-) 2.64e4

After-BLC

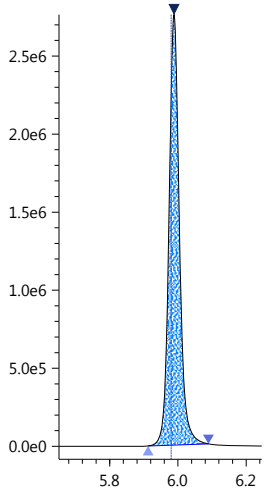


R1 813.00>218.95 (-) 3.15e3



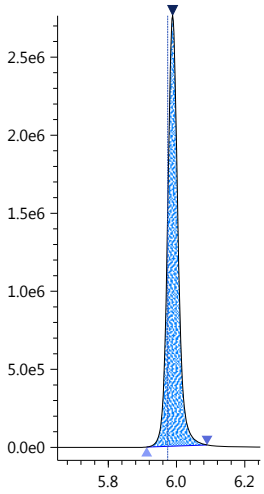
13C-PFHxDA
Conc 4.8600
RT 5.988 Area 5869599

Q 815.00>770.05 (-) 2.77e6



13C-PFHxDA_IS
Conc 5.0000
RT 5.988 Area 5869599

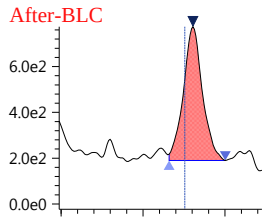
ISTD 815.00>770.05 (-) 2.77e6



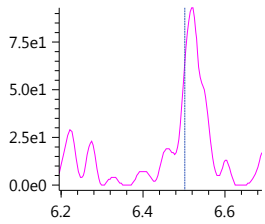
PFODA
Conc 0.0028
RT 6.522 Area 1889
R#1 13.60 (0.00)

Q 913.00>868.85 (-) 7.74e2

After-BLC

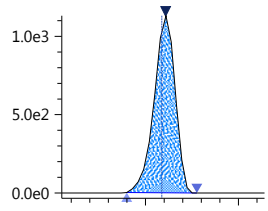


R1 913.00>169.00 (-) 9.30e1

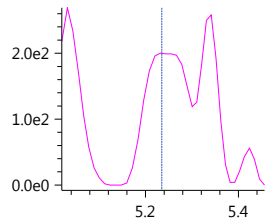


FOSA
Conc 0.0056
RT 5.243 Area 3554
R#1 12.59 (0.00)

Q 498.20>78.00 (-) 1.13e3

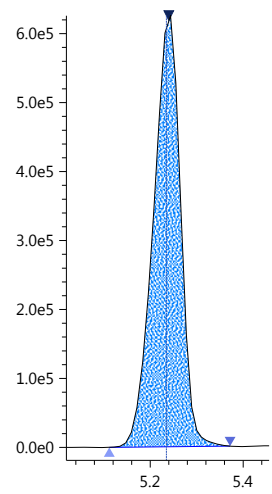


R1 498.20>64.10 (-) 2.69e2



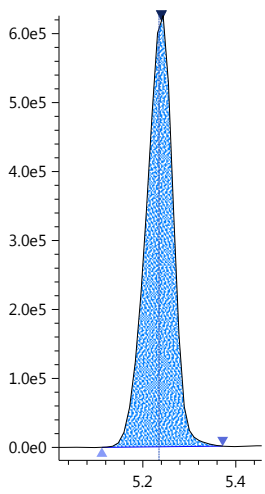
FOSA-13C
Conc 4.9387
RT 5.240 Area 2546437

Q 506.00>78.05 (-) 6.26e5



FOSA-13C_IS
Conc 5.0000
RT 5.240 Area 2546437

ISTD 506.00>78.05 (-) 6.26e5



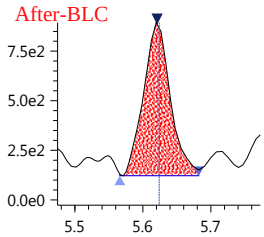
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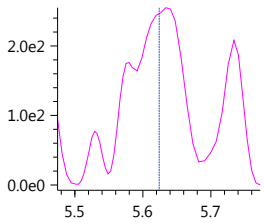
N-MeFOSA

Conc 0.0095
RT 5.621 Area 2124
R#1 19.30 (0.00)

Q 512.00>169.10 (-) 8.94e2



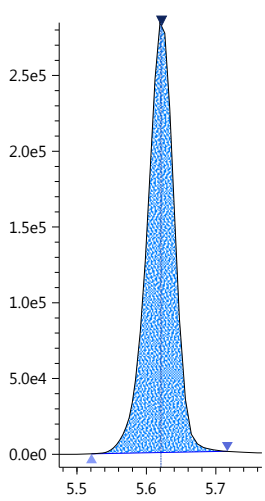
R1 512.00>219.00 (-) 2.55e2



N-MeFOSA-d3

Conc 4.9884
RT 5.622 Area 785653

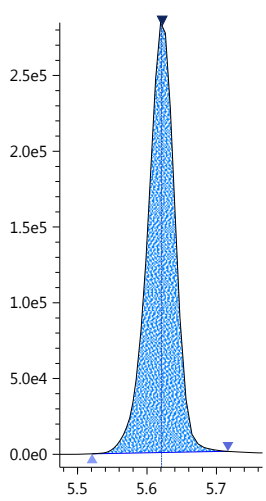
Q 514.90>168.90 (-) 2.85e5



N-MeFOSA-d3_IS

Conc 5.0000
RT 5.622 Area 785653

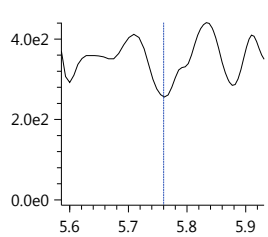
ISTD 514.90>168.90 (-) 2.85e5



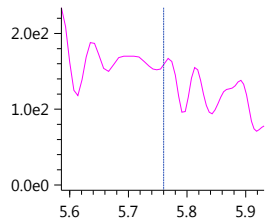
N-EtFOSA

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 526.90>169.10 (-) 4.41e2



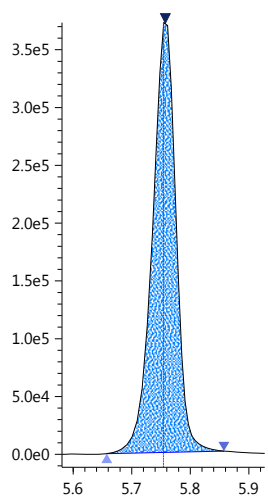
R1 526.90>219.00 (-) 2.34e2



N-EtFOSA-d9

Conc 4.8431
RT 5.758 Area 1042400

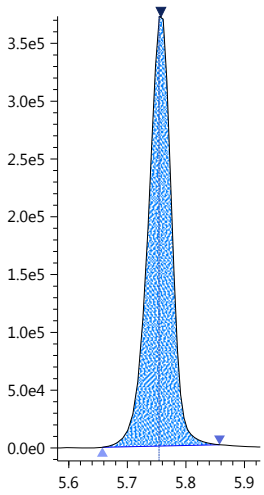
Q 530.90>169.15 (-) 3.73e5



N-EtFOSA-d9_IS

Conc 5.0000
RT 5.758 Area 1042400

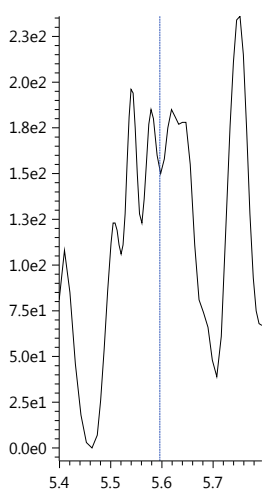
ISTD 530.90>169.15 (-) 3.73e5



N-MeFOSE

Conc ----
RT ---- Area ----

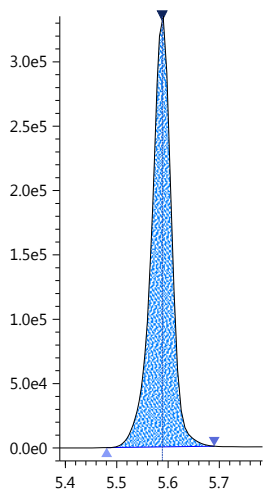
Q 616.00>59.00 (-) 2.36e2



N-MeFOSE-d7

Conc 4.7600
RT 5.589 Area 908990

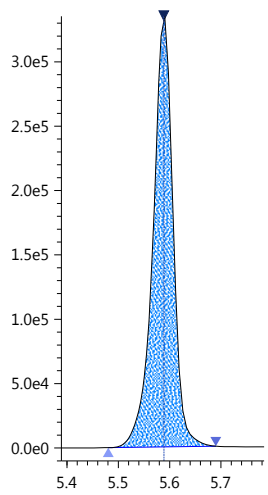
Q 622.70>59.10 (-) 3.35e5



N-MeFOSE-d7_IS

Conc 5.0000
RT 5.589 Area 908990

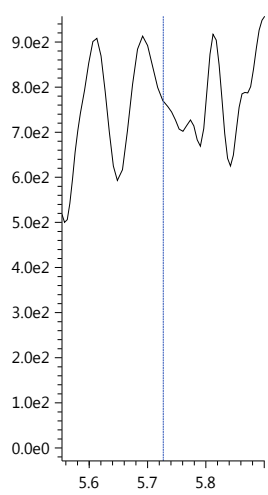
ISTD 622.70>59.10 (-) 3.35e5



N-EtFOSE

Conc ----
RT ---- Area ----

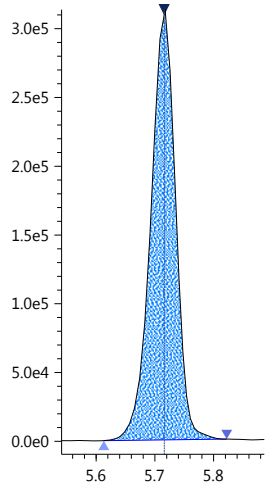
Q 630.00>58.90 (-) 9.57e2



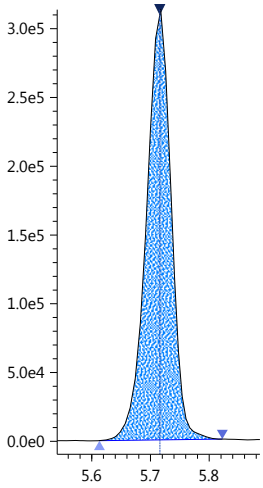
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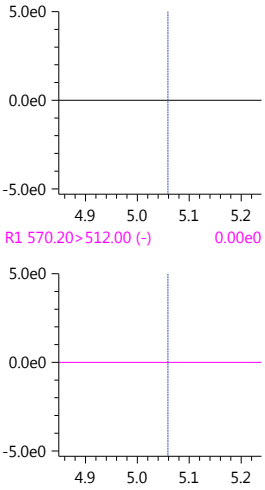
N-EtFOSE-d9
Conc 4.7195
RT 5.716 Area 918811
Q 638.70>59.10 (-) 3.14e5



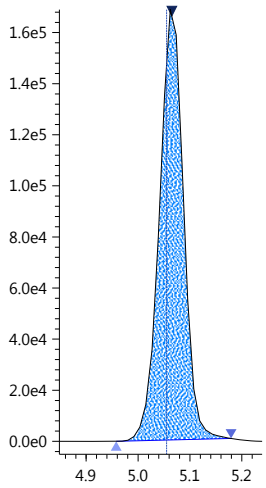
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.716 Area 918811
ISTD 638.70>59.10 (-) 3.14e5



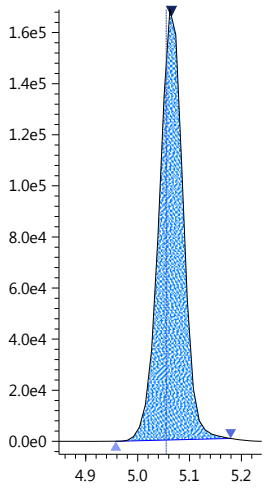
N-MeFOSAA
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 570.20>419.00 (-) 0.00e0



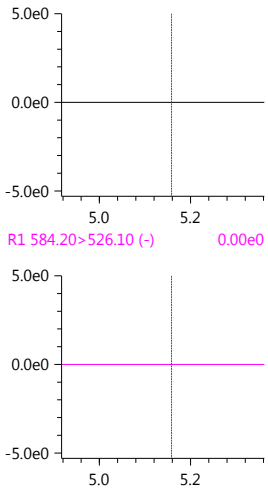
N-MeFOSAA-d3
Conc 5.6614
RT 5.065 Area 545344
Q 572.80>419.05 (-) 1.69e5



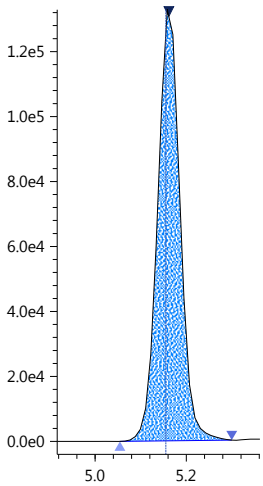
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.065 Area 545344
ISTD 572.80>419.05 (-) 1.69e5



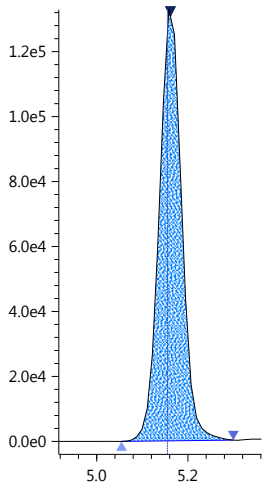
N-EtFOSAA
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 584.20>418.95 (-) 0.00e0



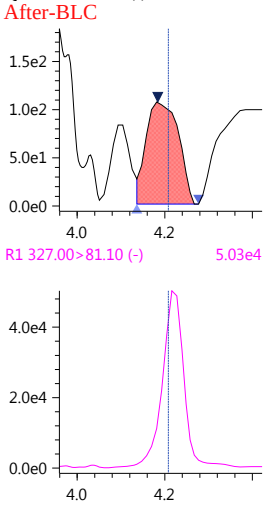
N-EtFOSAA-d5
Conc 5.1844
RT 5.162 Area 455988
Q 588.80>419.00 (-) 1.33e5



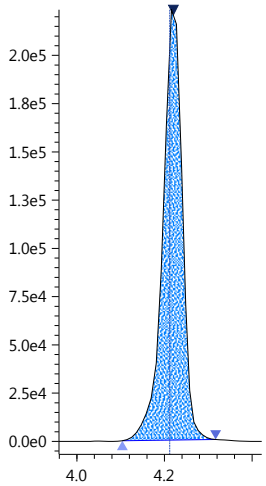
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.162 Area 455988
ISTD 588.80>419.00 (-) 1.33e5



4_2-FTS_1
Conc 0.0046
RT 4.184 Area 549
R#1 11936.67 (0.00)
Q 327.00>307.05 (-) 1.84e2
After-BLC



4_2-FTS-13C
Conc 6.3555
RT 4.220 Area 693567
Q 328.80>309.05 (-) 2.24e5

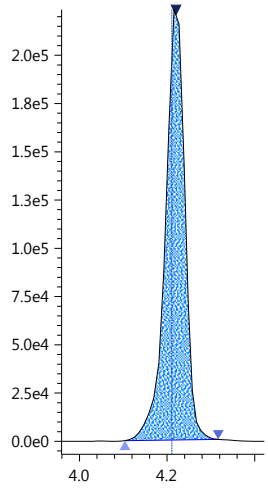


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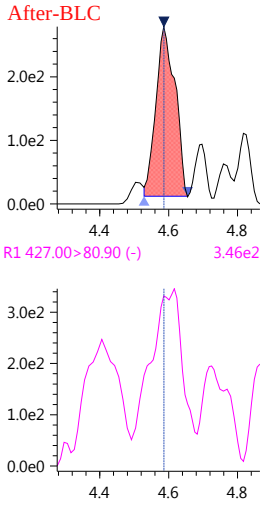
4_2-FTS-13C_IS
Conc 5.0000
RT 4.220 Area 693567

ISTD 328.80>309.05 (-) 2.24e5



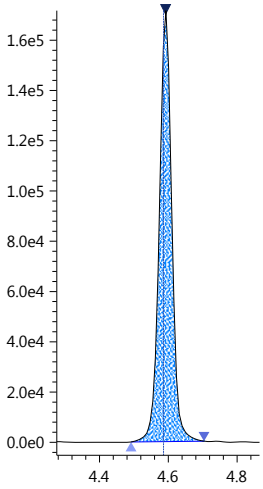
6_2-FTS_1
Conc 0.0114
RT 4.586 Area 1036
R#1 66.67 (0.00)

Q 427.00>407.00 (-) 2.79e2



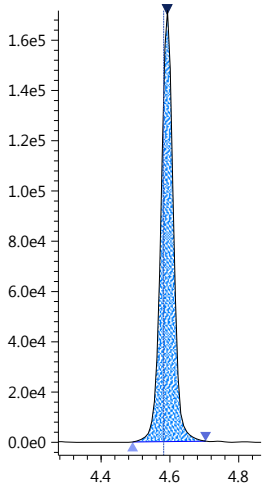
6_2-FTS-13C
Conc 4.6795
RT 4.592 Area 431141

Q 428.90>409.00 (-) 1.72e5



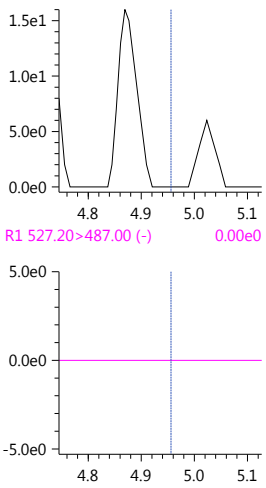
6_2-FTS-13C_IS
Conc 5.0000
RT 4.592 Area 431141

ISTD 428.90>409.00 (-) 1.72e5



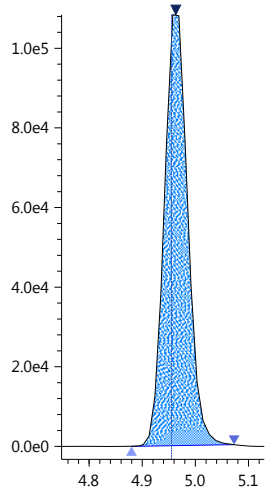
8_2-FTS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 527.10>506.90 (-) 1.60e1



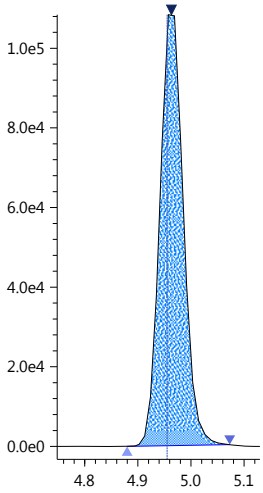
8_2-FTS-13C
Conc 5.5528
RT 4.963 Area 334224

Q 528.80>509.00 (-) 1.08e5



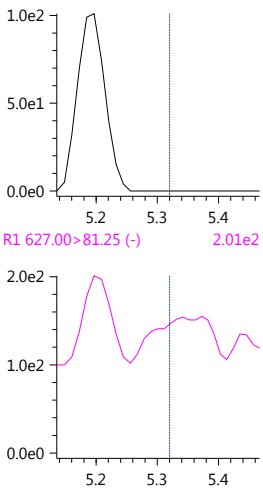
8_2-FTS-13C_IS
Conc 5.0000
RT 4.963 Area 334224

ISTD 528.80>509.00 (-) 1.08e5



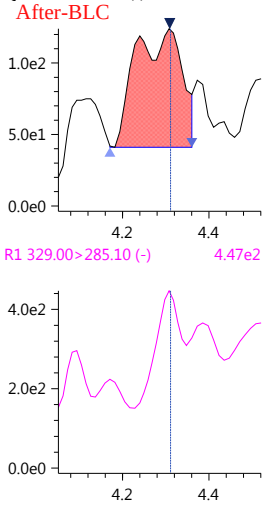
10_2-FtS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 627.00>606.95 (-) 1.01e2



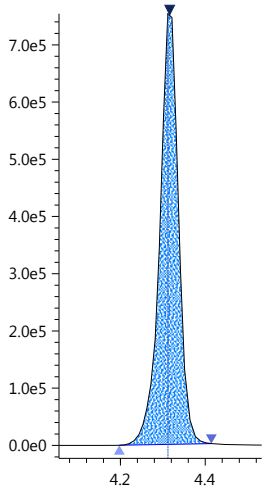
HPFO_DA
Conc 0.0015
RT 4.309 Area 618
R#1 238.98 (0.00)

Q 329.00>169.00 (-) 1.24e2



HFPO_DA-13C
Conc 5.8621
RT 4.316 Area 2331328

Q 332.00>286.80 (-) 7.54e5



Insight Report

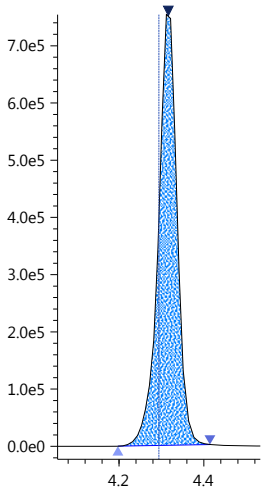
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HFPO_DA-13C_IS

Conc 5.0000

RT 4.316 Area 2331328

ISTD 332.00>286.80 (-) 7.54e5



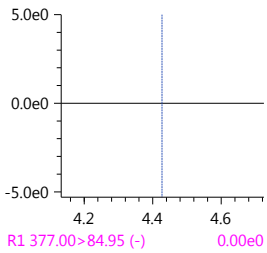
ADONA

Conc ----

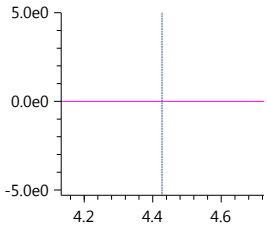
RT ---- Area ----

R#1 ---- (0.00)

Q 377.00>251.00 (-) 0.00e0



R1 377.00>84.95 (-) 0.00e0



Insight Report

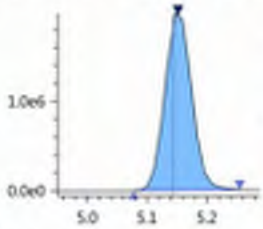
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Project File: J:\LCMS06\Data\190917_curve\190917_curve.damlp
Flags File: J:\LCMS06\Data\190917_curve\190917_curve.damlp

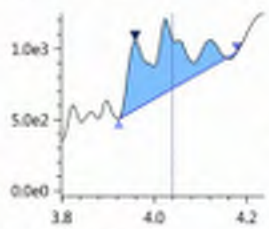
190917_005

Sample ID: IB
Date acquired: 9/17/2019 3:40:53 PM
Acquired by: System Administrator
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Vial: 6 | Inj. Volume: 15.0000uL | Tray: 1

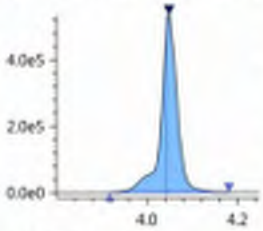
13C7-PFUnDA_IS
Conc 5.0000
RT 5.152 Area 6188968
ISTD 570.00>525.00 (-) 1.98e6



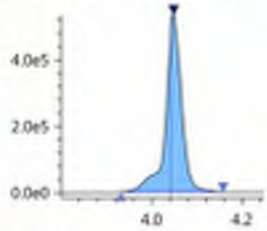
PFBS_1
Conc 0.0130
RT 3.959 Area 3430
Q 299.00>80.00 (-) 1.25e3



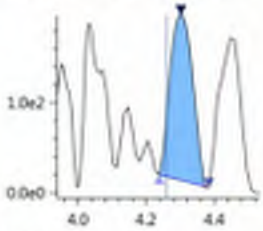
PFBS-13C
Conc 4.5754
RT 4.048 Area 1316152
Q 301.80>80.00 (-) 5.34e5



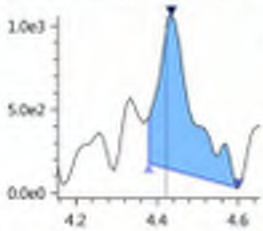
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RT 4.048 Area 1300007
ISTD 301.80>80.00 (-) 5.34e5



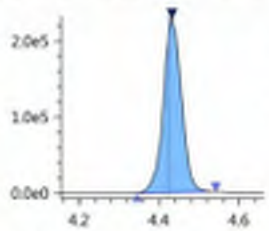
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Conc 0.0059
RT 4.302 Area 849
Q 349.00>99.00 (-) 1.97e2



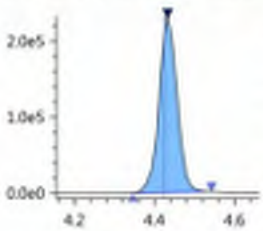
PFHxS_1
Conc 0.0274
RT 4.435 Area 5419
Q 399.00>80.00 (-) 1.06e3



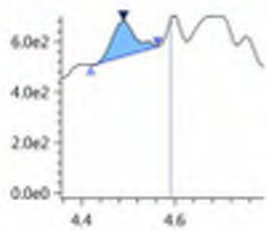
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Conc 5.0389
RT 4.432 Area 717422
Q 402.70>84.05 (-) 2.33e5



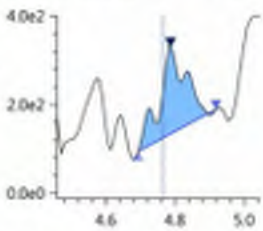
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RT 4.432 Area 717422
ISTD 402.70>84.05 (-) 2.33e5



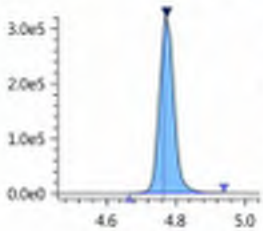
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Conc 0.0021
RT 4.489 Area 481
Q 449.00>80.15 (-) 7.01e2



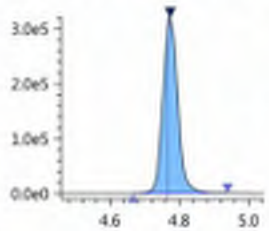
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Conc 0.0080
RT 4.786 Area 1024
Q 499.00>80.00 (-) 4.00e2



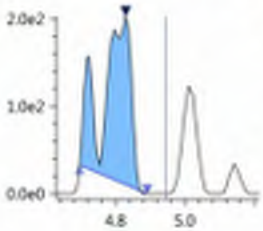
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Conc 4.5895
RT 4.774 Area 952381
Q 502.80>80.05 (-) 3.23e5



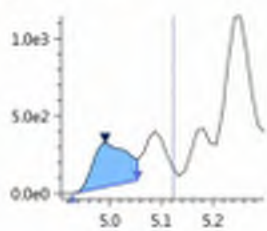
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Conc 5.0000
RT 4.774 Area 952381
ISTD 502.80>80.05 (-) 3.23e5



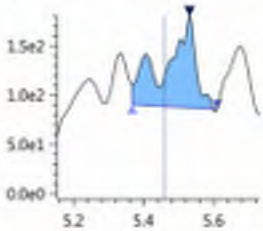
PFNS
Conc 0.0107
RT 4.829 Area 1070
Q 549.00>99.00 (-) 2.03e2



PFDS_1
Conc 0.0101
RT 4.991 Area 1287
Q 599.00>79.90 (-) 1.15e3



PFDOS
Conc 0.0035
RT 5.531 Area 561
Q 699.00>79.95 (-) 1.80e2

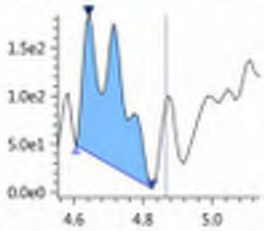


Manual Integration - Before

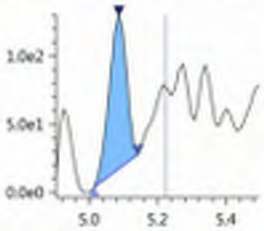
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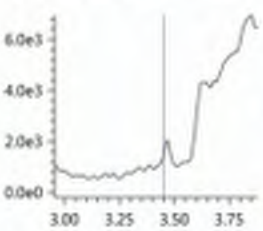
9Cl-PF3ONS
Conc 0.0009
RT 4.642 Area 1036
Q 531.00>351.00 (-) 1.84e2



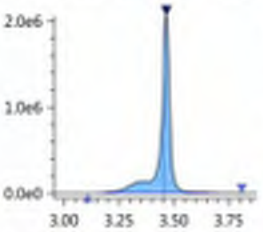
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Conc 0.0005
RT 5.086 Area 394
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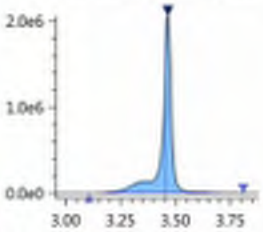
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 (-) 6.96e3



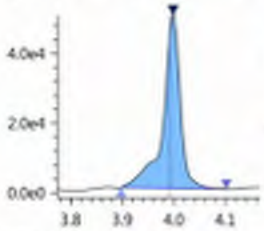
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Conc 5.3789
RT 3.465 Area 6096379
Q 216.90>172.15 (-) 2.06e6



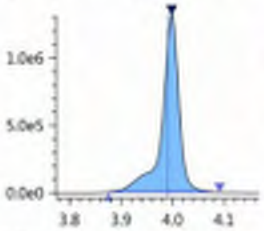
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Conc 5.0000
RT 3.465 Area 6096379
ISTD 216.90>172.15 (-) 2.06e6



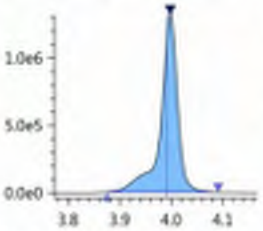
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Conc 0.0709
RT 3.998 Area 116178
Q 263.05>219.10 (-) 5.09e4



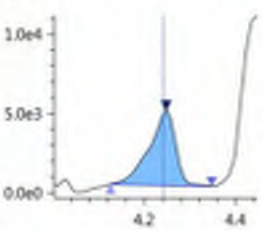
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Conc 5.2587
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Q 267.90>223.00 (-) 1.31e6



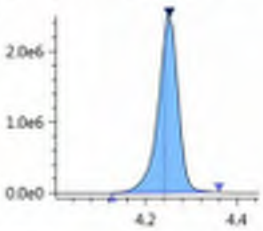
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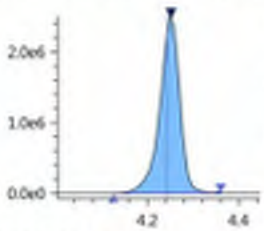
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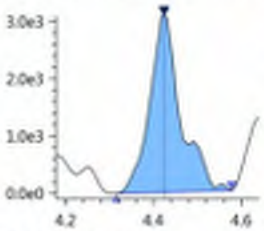
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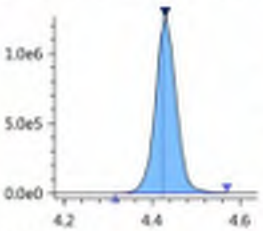
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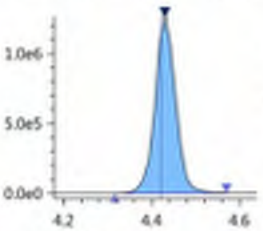
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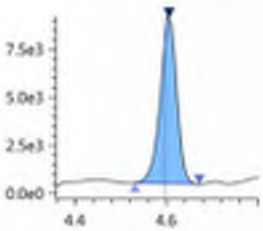
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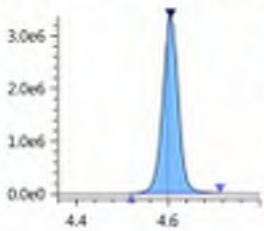
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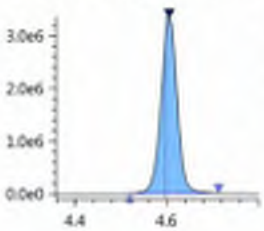
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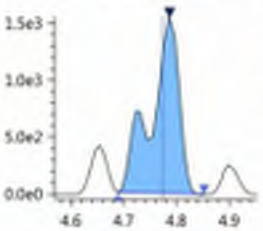
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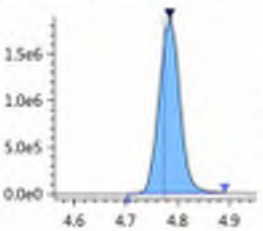
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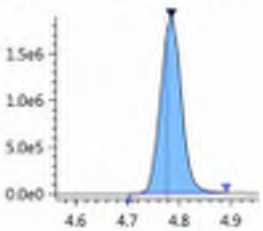
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Conc 0.0059
RT 4.787 Area 5716
Q 463.00>418.90 (-) 1.56e3



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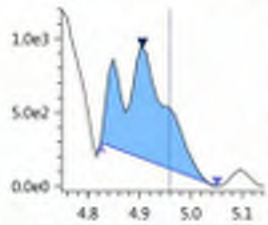


Manual Integration - Before

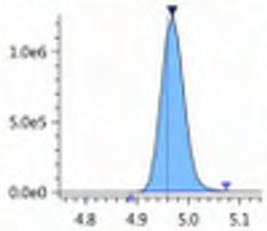
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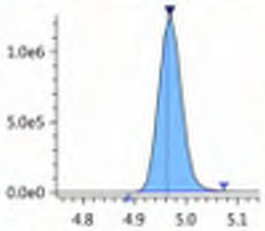
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Conc 0.0072
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Q 513.00>468.80 (-) 1.20e3



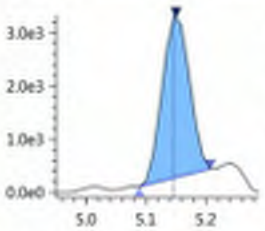
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RT 4.968 Area 3862476
Q 514.80>469.95 (-) 1.26e6



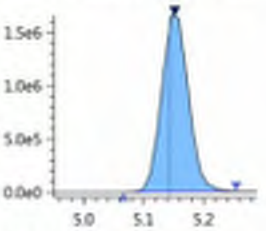
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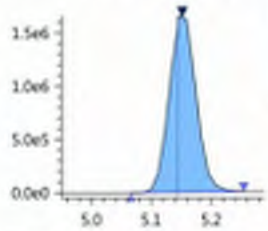
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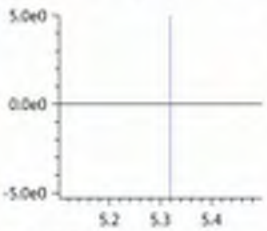
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Q 564.80>519.95 (-) 1.66e6



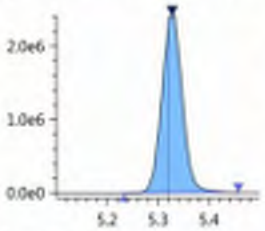
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ISTD 564.80>519.95 (-) 1.66e6



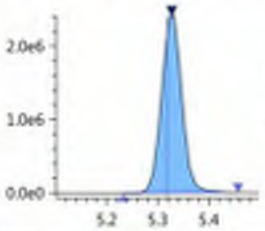
PFDoA
Conc ----
RT ---- Area ----
Q 613.05>569.00 (-) 0.00e0



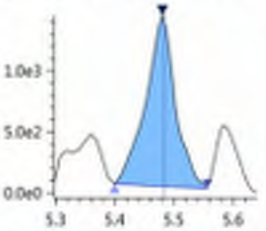
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Q 614.80>569.95 (-) 2.42e6



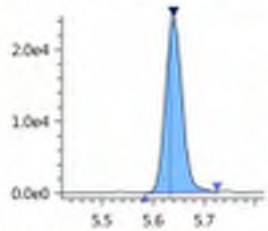
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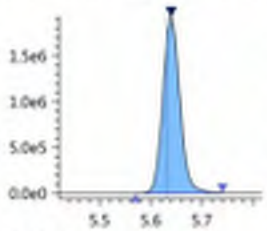
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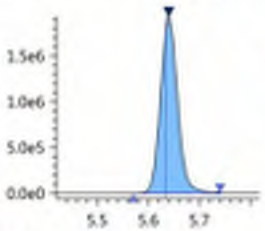
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Q 713.40>669.00 (-) 2.47e4



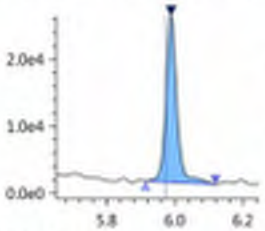
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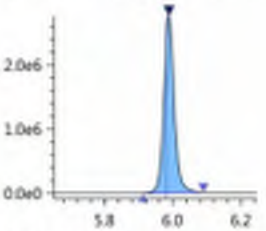
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ISTD 714.70>669.90 (-) 1.93e6



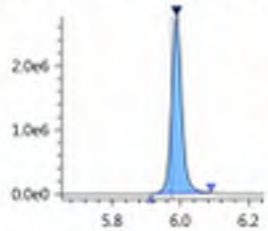
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Conc 0.0484
RT 5.989 Area 56238
Q 813.00>769.05 (-) 2.64e4



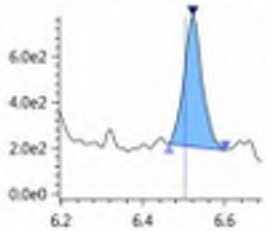
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Conc 4.8600
RT 5.988 Area 5869599
Q 815.00>770.05 (-) 2.77e6



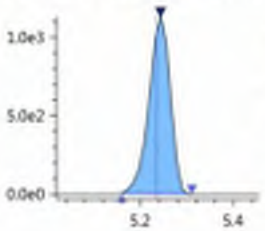
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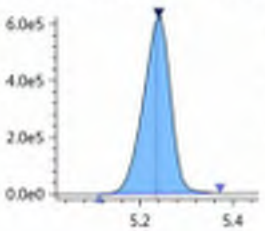
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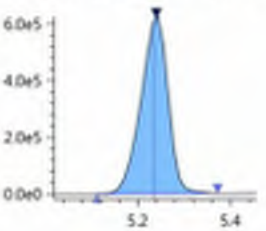
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Q 498.20>78.00 (-) 1.13e3



FOSA-13C
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Q 506.00>78.05 (-) 6.26e5



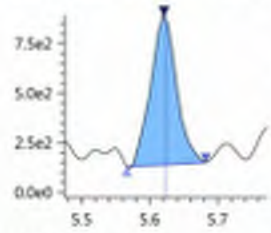
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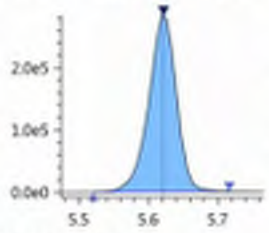
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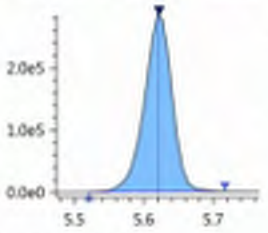
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RT 5.621 Area 1999
Q 512.00>169.10 (-) 8.94e2



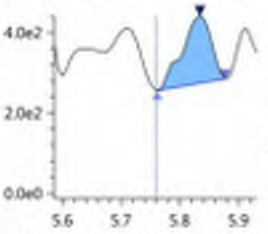
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Conc 4.9884
RT 5.622 Area 785653
Q 514.90>168.90 (-) 2.85e5



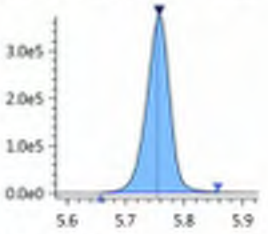
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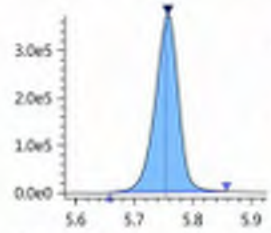
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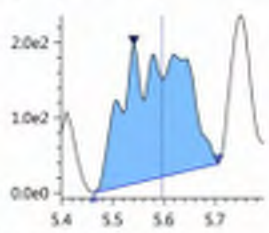
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Q 530.90>169.15 (-) 3.73e5



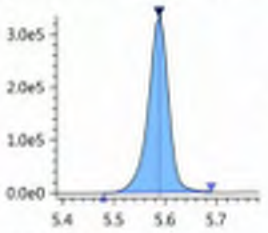
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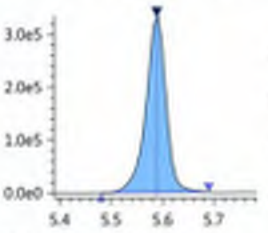
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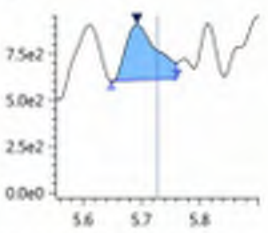
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RT 5.589 Area 908990
Q 622.70>59.10 (-) 3.35e5



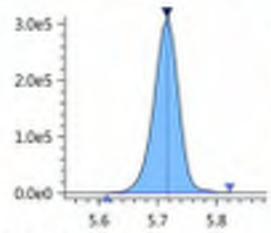
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.589 Area 908990
ISTD 622.70>59.10 (-) 3.35e5



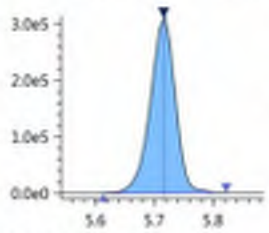
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Conc 0.0044
RT 5.692 Area 1112
Q 630.00>58.90 (-) 9.57e2



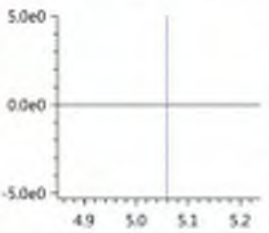
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Conc 4.7195
RT 5.716 Area 918811
Q 638.70>59.10 (-) 3.14e5



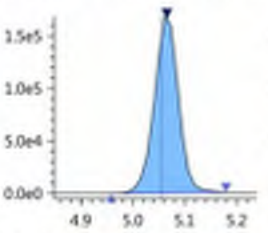
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Conc 5.0000
RT 5.716 Area 918811
ISTD 638.70>59.10 (-) 3.14e5



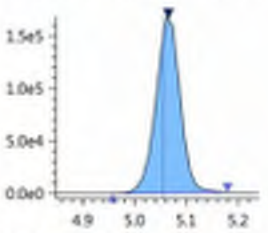
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



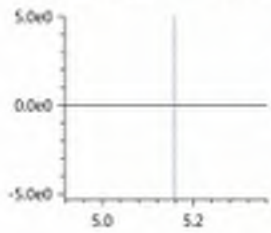
N-MeFOSAA-d3
Conc 5.6614
RT 5.065 Area 545344
Q 572.80>419.05 (-) 1.69e5



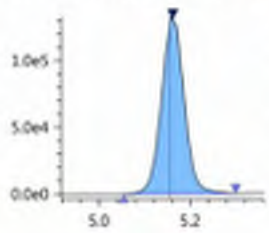
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Conc 5.0000
RT 5.065 Area 545344
ISTD 572.80>419.05 (-) 1.69e5



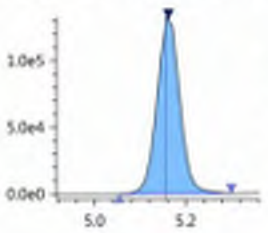
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



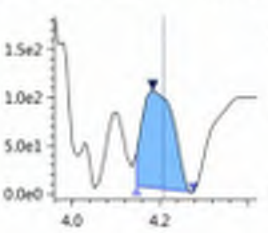
N-EtFOSAA-d5
Conc 5.1844
RT 5.162 Area 455988
Q 588.80>419.00 (-) 1.33e5



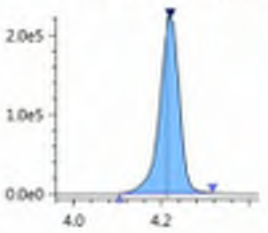
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.162 Area 455988
ISTD 588.80>419.00 (-) 1.33e5



4_2-FTS_1
Conc 0.0045
RT 4.184 Area 504
Q 327.00>307.05 (-) 1.84e2



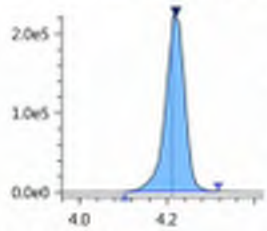
4_2-FTS-13C
Conc 5.9398
RT 4.220 Area 693567
Q 328.80>309.05 (-) 2.24e5



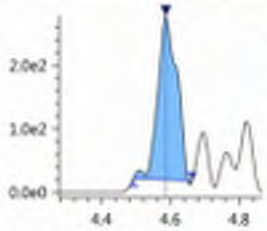
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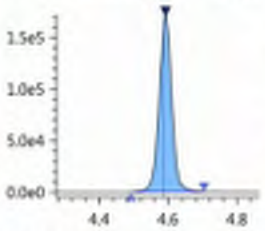
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RT 4.220 Area 693567
ISTD 328.80>309.05 (-) 2.24e5



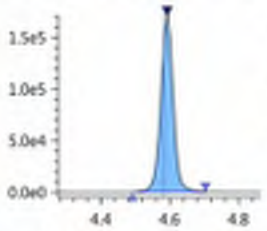
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Conc 0.0110
RT 4.586 Area 996
Q 427.00>407.00 (-) 2.79e2



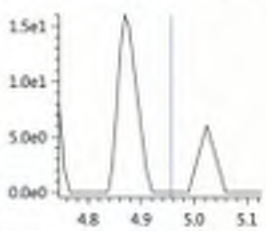
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Conc 4.6795
RT 4.592 Area 431141
Q 428.90>409.00 (-) 1.72e5



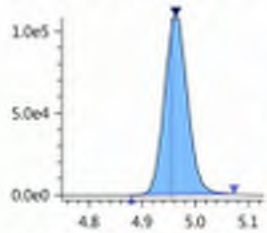
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Conc 5.0000
RT 4.592 Area 431141
ISTD 428.90>409.00 (-) 1.72e5



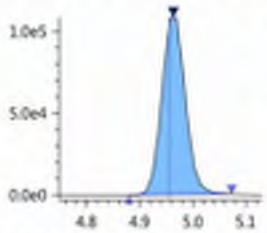
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 1.60e1



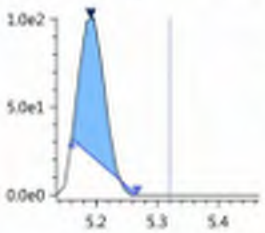
8_2-FTS-13C
Conc 5.5528
RT 4.963 Area 334224
Q 528.80>509.00 (-) 1.08e5



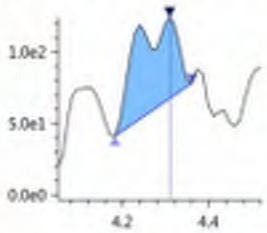
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Conc 5.0000
RT 4.963 Area 334224
ISTD 528.80>509.00 (-) 1.08e5



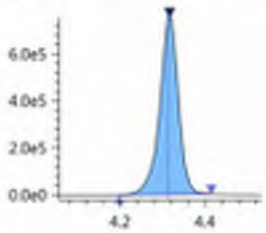
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Conc 0.0070
RT 5.191 Area 201
Q 627.00>606.95 (-) 1.01e2



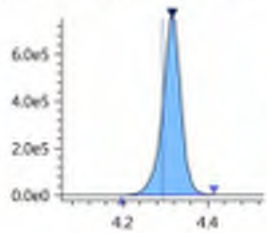
HPFO_DA
Conc 0.0011
RT 4.309 Area 420
Q 329.00>169.00 (-) 1.24e2



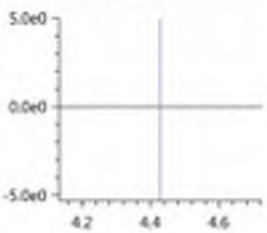
HFPO_DA-13C
Conc 5.1848
RT 4.316 Area 2331328
Q 332.00>286.80 (-) 7.54e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.316 Area 2331328
ISTD 332.00>286.80 (-) 7.54e5



ADONA
Conc ----
RT ---- Area ----
Q 377.00>251.00 (-) 0.00e0



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190917_006

Sample ID: 0.05 PPB ICAL
Date acquired: 9/17/2019 3:51:48 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_006.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.148	6000085	6000085	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.045	14811	1446184	2	0.0505	ng/mL	0.0444
PFBS-13C	Auto	4.047	1464383	6000085	1	5.2510	ng/mL	5.0000
PFBS-13C_IS	Auto	4.047	1446184	1446184	2	5.0000	ng/mL	5.0000
PFPeS	M	4.264	11338	1446184	2	0.0746	ng/mL	0.0470
PFHxS_1	M	4.428	10703	654884	3	0.0334	ng/mL	0.0457
PFHxS-18O	Auto	4.428	654884	6000085	1	4.7445	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.428	654884	654884	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.597	13762	654884	3	0.0682	ng/mL	0.0477
PFOS_1	M	4.767	7483	1088101	4	0.0501	ng/mL	0.0465
PFOS-13C	Auto	4.771	1088101	6000085	1	5.4086	ng/mL	5.0000
PFOS-13C_IS	Auto	4.771	1088101	1088101	4	5.0000	ng/mL	5.0000
PFNS	M	4.950	6589	1088101	4	0.0573	ng/mL	0.0481
PFDS_1	M	5.130	8986	1088101	4	0.0601	ng/mL	0.0482
PFDOS	M	5.465	11020	1088101	4	0.0605	ng/mL	0.0485
9Cl-PF3ONS	Auto	4.877	61183	2900623	26	0.0411	ng/mL	0.0467
11Cl-PF3OUdS	M	5.229	30934	2900623	26	0.0302	ng/mL	0.0472
PFBA	M	3.463	49998	6284694	5	0.0515	ng/mL	0.0500
PFBA-13C	Auto	3.463	6284694	6000085	1	5.7731	ng/mL	5.0000
PFBA-13C_IS	Auto	3.463	6284694	6284694	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.996	189622	3224323	6	0.0514	ng/mL	0.0500
PFPeA-13C	Auto	3.997	3224323	6000085	1	5.8300	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.997	3224323	3224323	6	5.0000	ng/mL	5.0000
PFHxA	M	4.247	99130	7094399	7	0.0521	ng/mL	0.0500
PFHxA-13C	Auto	4.249	7094399	6000085	1	5.3218	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.249	7094399	7094399	7	5.0000	ng/mL	5.0000
PFHpA	M	4.420	59705	4570880	8	0.0486	ng/mL	0.0500
PFHpA-13C	Auto	4.426	4570880	6000085	1	5.0696	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.426	4570880	4570880	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.602	98799	7900795	9	0.0520	ng/mL	0.0500
PFOA-13C	Auto	4.603	7900795	6000085	1	5.4393	ng/mL	5.0000
PFOA-13C_IS	Auto	4.603	7900795	7900795	9	5.0000	ng/mL	5.0000
PFNA	M	4.783	73183	6098476	10	0.0488	ng/mL	0.0500
PFNA-13C	Auto	4.782	6098476	6000085	1	5.9616	ng/mL	5.0000
PFNA-13C_IS	Auto	4.782	6098476	6098476	10	5.0000	ng/mL	5.0000
PFDA	M	4.965	45563	4791302	11	0.0487	ng/mL	0.0500
PFDA-13C	Auto	4.965	4791302	6000085	1	5.6622	ng/mL	5.0000
PFDA-13C_IS	Auto	4.965	4791302	4791302	11	5.0000	ng/mL	5.0000
PFUnA	M	5.149	47872	5034550	12	0.0510	ng/mL	0.0500
PFUnA-13C	Auto	5.149	5034550	6000085	1	5.2935	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.149	5034550	5034550	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.326	45626	6417320	13	0.0932	ng/mL	0.0500
PFDoA-13C	Auto	5.325	6417320	6000085	1	5.5600	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.325	6417320	6417320	13	5.0000	ng/mL	5.0000
PFTrDA	M	5.490	56094	5443159	14	0.0489	ng/mL	0.0500
PFTeDA	Auto	5.638	81371	5443159	14	0.0381	ng/mL	0.0500
PFTeDA-13C	Auto	5.638	5443159	6000085	1	5.9413	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.638	5443159	5443159	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.984	113774	6557133	15	0.0457	ng/mL	0.0500
13C-PFHxDA	Auto	5.983	6557133	6000085	1	5.6001	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.983	6557133	6557133	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.514	41265	6557133	15	0.0541	ng/mL	0.0500
FOSA	Auto	5.238	40377	2712978	16	0.0602	ng/mL	0.0500
FOSA-13C	Auto	5.236	2712978	6000085	1	5.4273	ng/mL	5.0000
FOSA-13C_IS	Auto	5.236	2712978	2712978	16	5.0000	ng/mL	5.0000
N-MeFOSA	M	5.623	16270	880273	17	0.0649	ng/mL	0.0500
N-MeFOSA-d3	Auto	5.621	880273	6000085	1	5.7651	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.621	880273	880273	17	5.0000	ng/mL	5.0000
N-EtFOSA	M	5.762	2577	1183589	18	0.0572	ng/mL	0.0500
N-EtFOSA-d9	Auto	5.756	1183589	6000085	1	5.6722	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.756	1183589	1183589	18	5.0000	ng/mL	5.0000
N-MeFOSE	M	5.596	14206	1006387	19	0.0553	ng/mL	0.0500
N-MeFOSE-d7	Auto	5.588	1006387	6000085	1	5.4359	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.588	1006387	1006387	19	5.0000	ng/mL	5.0000
N-EtFOSE	M	5.724	18990	1022432	20	0.0709	ng/mL	0.0500
N-EtFOSE-d9	Auto	5.715	1022432	6000085	1	5.4171	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.715	1022432	1022432	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.005	5188	519038	21	0.0762	ng/mL	0.0500

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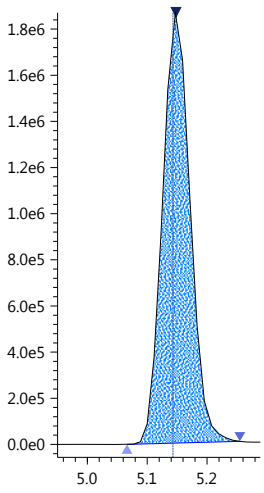
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.063	519038	6000085	1	5.5579	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.063	519038	519038	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.156	1798	461627	22	0.0415	ng/mL	0.0500
N-EtFOSAA-d5	Auto	5.159	461627	6000085	1	5.4137	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.159	461627	461627	22	5.0000	ng/mL	5.0000
4_2-FTS_1	M	4.220	6616	647814	23	0.0588	ng/mL	0.0469
4_2-FTS-13C	Auto	4.219	647814	6000085	1	6.1231	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.219	647814	647814	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.587	6943	549438	24	0.0599	ng/mL	0.0476
6_2-FTS-13C	Auto	4.590	549438	6000085	1	6.1511	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.590	549438	549438	24	5.0000	ng/mL	5.0000
8_2-FTS_1	M	4.959	2611	339693	25	0.0546	ng/mL	0.0480
8_2-FTS-13C	Auto	4.961	339693	6000085	1	5.8213	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.961	339693	339693	25	5.0000	ng/mL	5.0000
10_2-FtS_1	M	5.327	1455	339693	25	0.0495	ng/mL	0.0483
HPFO_DA	M	4.314	19582	2900623	26	0.0374	ng/mL	0.0500
HFPO_DA-13C	Auto	4.315	2900623	6000085	1	7.5231	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.315	2900623	2900623	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.445	76058	2900623	26	0.0472	ng/mL	0.0473

13C7-PFUnDA_IS

Conc 5.0000
RT 5.148 Area 6000085

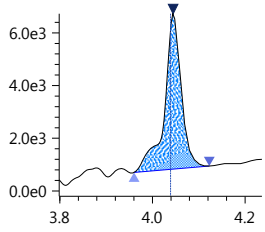
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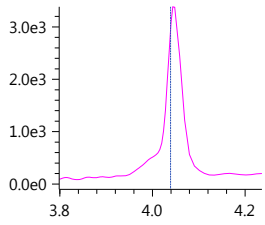
PFBS_1

Conc 0.0505
RT 4.045 Area 14811
R#1 55.29 (0.00)

Q 299.00>80.00 (-) 6.73e3



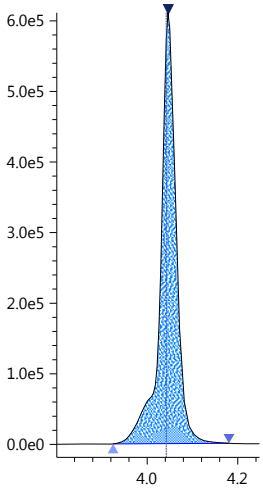
R1 298.80>99.00 (-) 3.38e3



PFBS-13C

Conc 5.2510
RT 4.047 Area 1464383

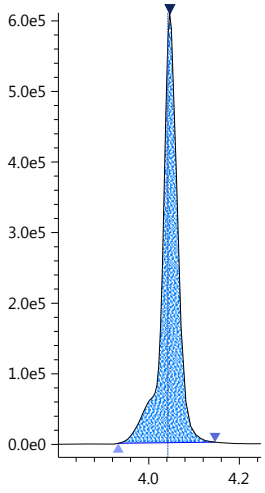
Q 301.80>80.00 (-) 6.12e5



PFBS-13C_IS

Conc 5.0000
RT 4.047 Area 1446184

ISTD 301.80>80.00 (-) 6.12e5

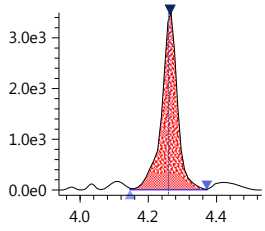


PFPeS

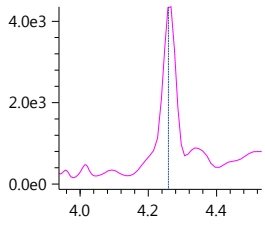
Conc 0.0746
RT 4.264 Area 11338
R#1 117.01 (0.00)

Q 349.00>99.00 (-) 3.50e3

After-BLC



R1 349.00>79.95 (-) 4.36e3

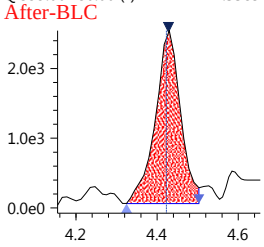


Insight Report

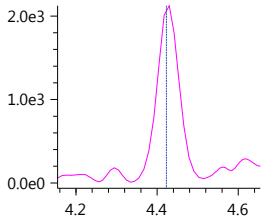
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PFHxS_1
Conc 0.0334
RT 4.428 Area 10703
R#1 88.26 (0.00)

Q 399.00>80.00 (-) 2.55e3

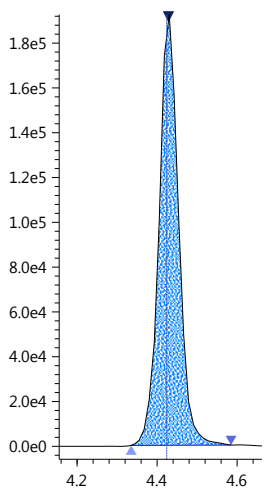


R1 399.00>99.00 (-) 2.12e3



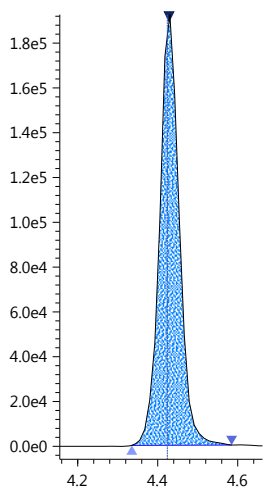
PFHxS-18O
Conc 4.7445
RT 4.428 Area 654884

Q 402.70>84.05 (-) 1.93e5



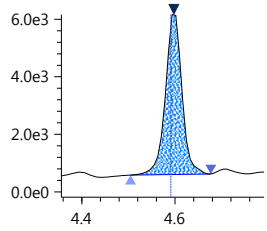
PFHxS-18O_IS
Conc 5.0000
RT 4.428 Area 654884

ISTD 402.70>84.05 (-) 1.93e5

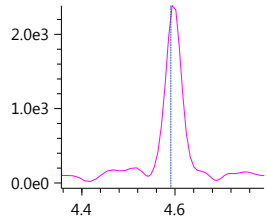


PFHpS_1
Conc 0.0682
RT 4.597 Area 13762
R#1 40.45 (0.00)

Q 449.00>80.15 (-) 6.16e3

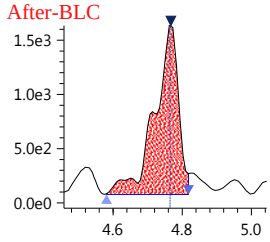


R1 449.00>99.20 (-) 2.39e3

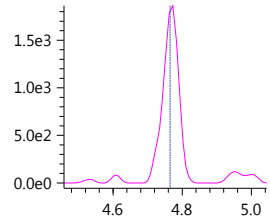


PFOS_1
Conc 0.0501
RT 4.767 Area 7483
R#1 123.30 (0.00)

Q 499.00>80.00 (-) 1.63e3

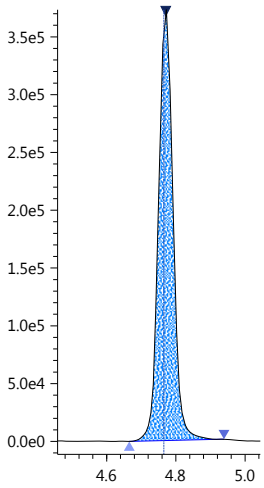


R1 499.00>99.00 (-) 1.86e3



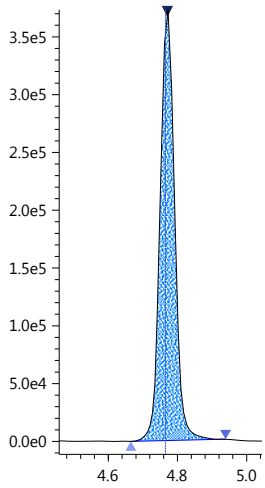
PFOS-13C
Conc 5.4086
RT 4.771 Area 1088101

Q 502.80>80.05 (-) 3.73e5



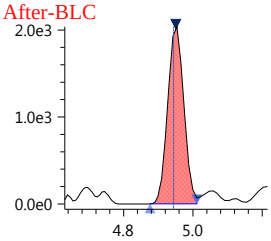
PFOS-13C_IS
Conc 5.0000
RT 4.771 Area 1088101

ISTD 502.80>80.05 (-) 3.73e5

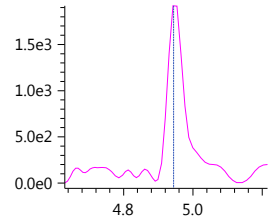


PFNS
Conc 0.0573
RT 4.950 Area 6589
R#1 88.12 (0.00)

Q 549.00>99.00 (-) 2.04e3

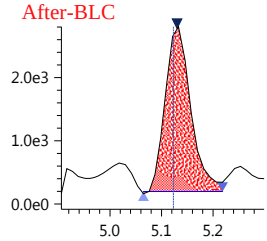


R1 549.00>79.95 (-) 1.92e3

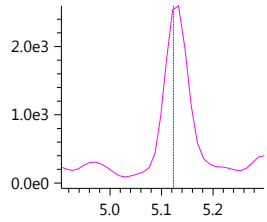


PFDS_1
Conc 0.0601
RT 5.130 Area 8986
R#1 91.55 (0.00)

Q 599.00>79.90 (-) 2.81e3

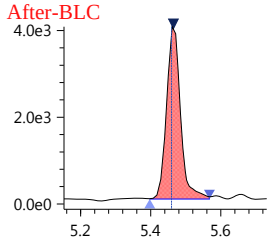


R1 599.00>99.10 (-) 2.60e3

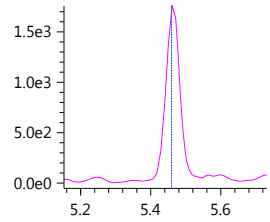


PFDOS
Conc 0.0605
RT 5.465 Area 11020
R#1 41.97 (0.00)

Q 699.00>79.95 (-) 4.09e3



R1 699.00>99.05 (-) 1.76e3



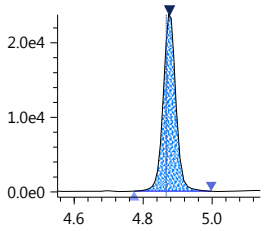
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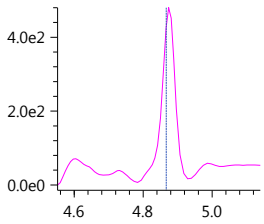
9Cl-PF3ONS

Conc 0.0411
RT 4.877 Area 61183
R#1 1.91 (0.00)

Q 531.00>351.00 (-) 2.38e4



R1 531.00>98.90 (-) 4.80e2

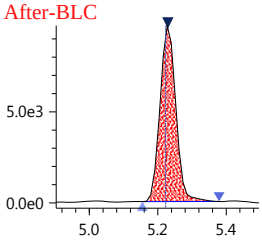


11Cl-PF3OUdS

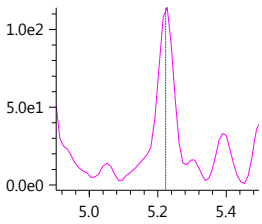
Conc 0.0302
RT 5.229 Area 30934
R#1 0.94 (0.00)

Q 631.00>451.05 (-) 9.73e3

After-BLC



R1 631.00>98.90 (-) 1.14e2

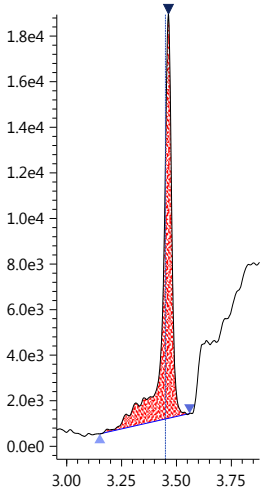


PFBA

Conc 0.0515
RT 3.463 Area 49998

After-BLC

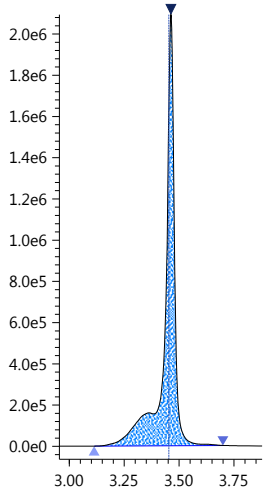
Q 213.00>169.10 (-) 1.89e4



PFBA-13C

Conc 5.7731
RT 3.463 Area 6284694

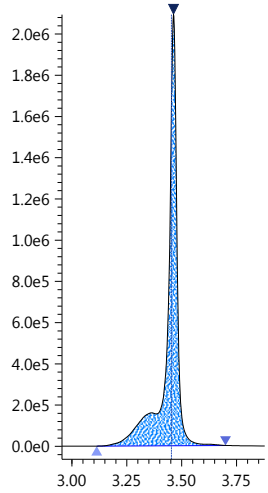
Q 216.90>172.15 (-) 2.09e6



PFBA-13C_IS

Conc 5.0000
RT 3.463 Area 6284694

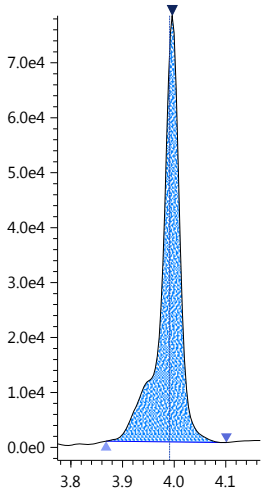
ISTD 216.90>172.15 (-) 2.09e6



PFPeA

Conc 0.0514
RT 3.996 Area 189622

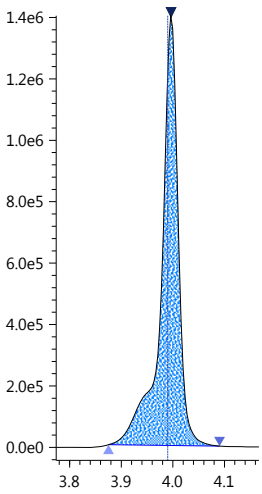
Q 263.05>219.10 (-) 7.86e4



PFPeA-13C

Conc 5.8300
RT 3.997 Area 3224323

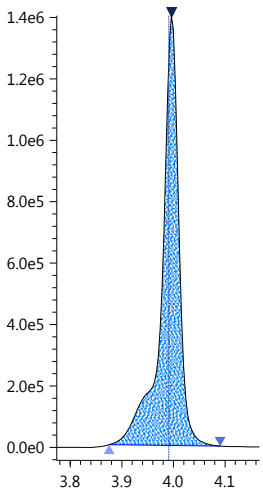
Q 267.90>223.00 (-) 1.41e6



PFPeA-13C_IS

Conc 5.0000
RT 3.997 Area 3224323

ISTD 267.90>223.00 (-) 1.41e6

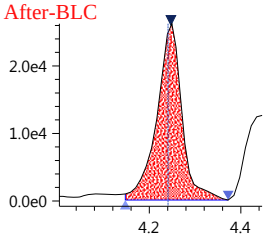


PFHxA

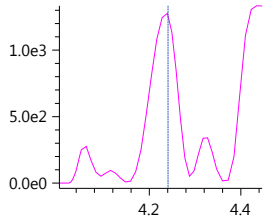
Conc 0.0521
RT 4.247 Area 99130
R#1 5.45 (0.00)

Q 313.00>269.00 (-) 2.63e4

After-BLC



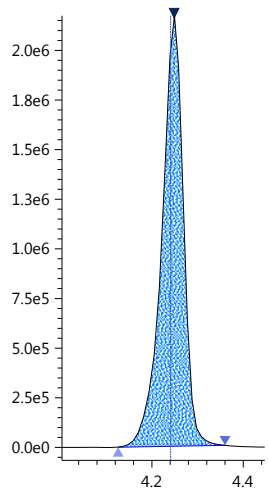
R1 313.00>119.10 (-) 1.33e3



PFHxA-13C

Conc 5.3218
RT 4.249 Area 7094399

Q 314.90>270.10 (-) 2.17e6



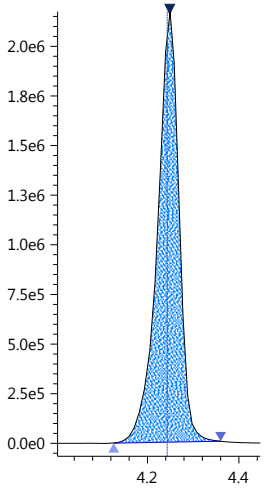
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PFHxA-13C_IS

Conc 5.0000
RT 4.249 Area 7094399

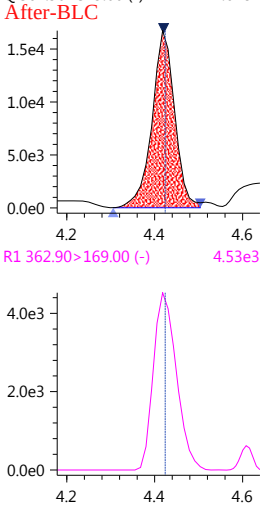
ISTD 314.90>270.10 (-) 2.17e6



PFHpA

Conc 0.0486
RT 4.420 Area 59705
R#1 27.64 (0.00)

Q 362.90>319.00 (-) 1.67e4

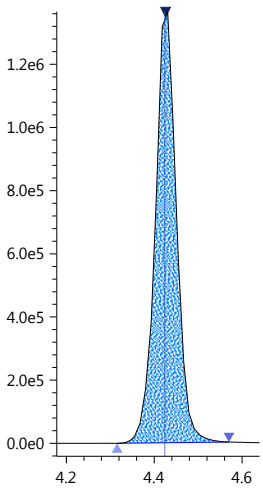


R1 362.90>169.00 (-) 4.53e3

PFHpA-13C

Conc 5.0696
RT 4.426 Area 4570880

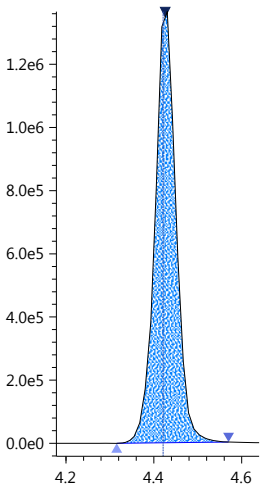
Q 366.90>322.10 (-) 1.37e6



PFHpA-13C_IS

Conc 5.0000
RT 4.426 Area 4570880

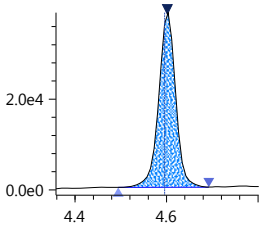
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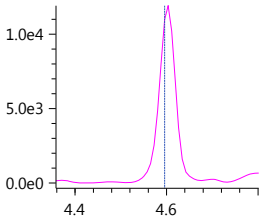
PFOA

Conc 0.0520
RT 4.602 Area 98799
R#1 30.55 (0.00)

Q 413.00>369.00 (-) 3.91e4



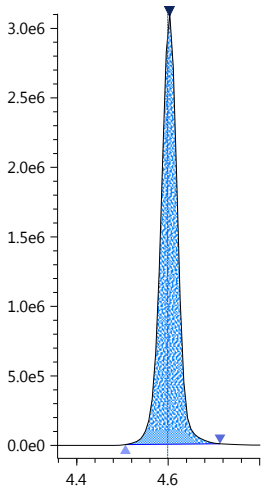
R1 413.00>169.10 (-) 1.19e4



PFOA-13C

Conc 5.4393
RT 4.603 Area 7900795

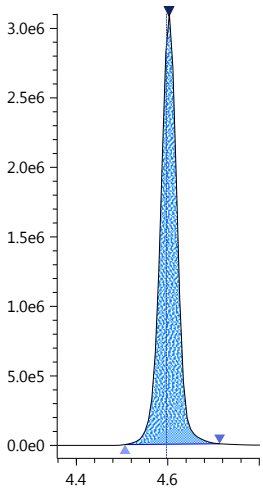
Q 416.80>372.05 (-) 3.11e6



PFOA-13C_IS

Conc 5.0000
RT 4.603 Area 7900795

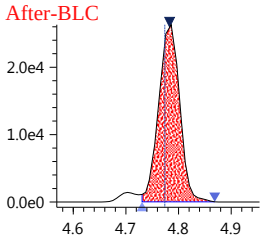
ISTD 416.80>372.05 (-) 3.11e6



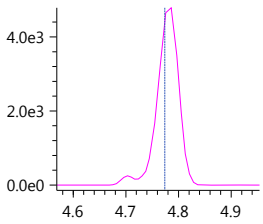
PFNA

Conc 0.0488
RT 4.783 Area 73183
R#1 17.94 (0.00)

Q 463.00>418.90 (-) 2.63e4



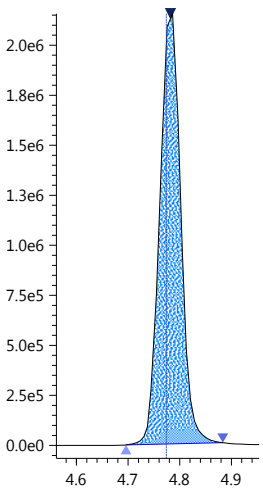
R1 463.00>219.00 (-) 4.79e3



PFNA-13C

Conc 5.9616
RT 4.782 Area 6098476

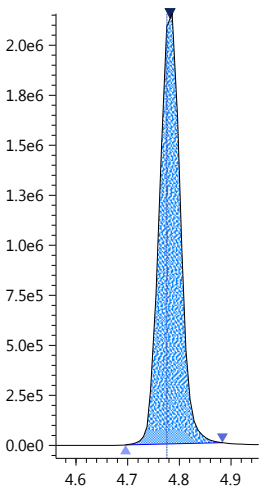
Q 467.80>423.00 (-) 2.16e6



PFNA-13C_IS

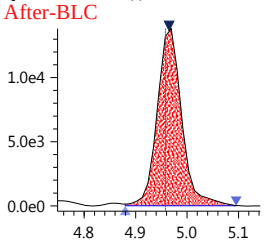
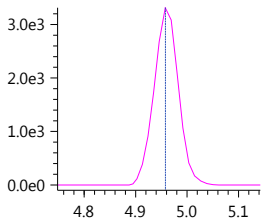
Conc 5.0000
RT 4.782 Area 6098476

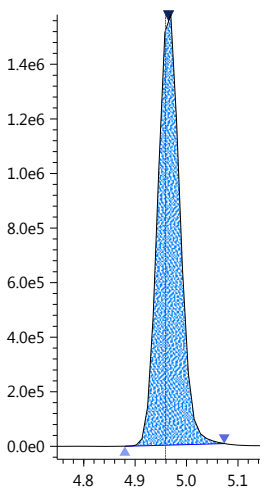
ISTD 467.80>423.00 (-) 2.16e6

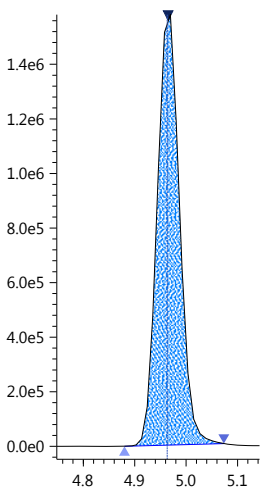


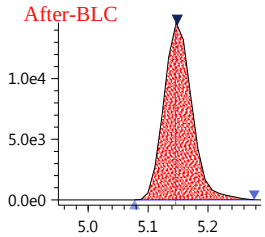
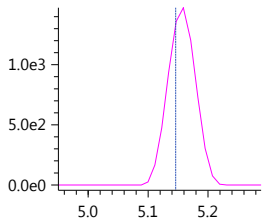
Insight Report

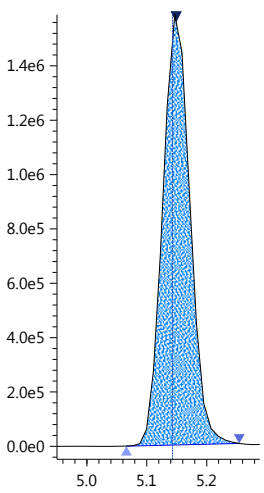
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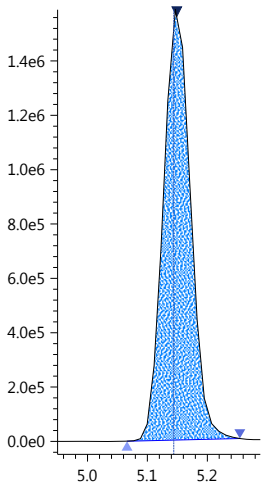
PFDA
Conc 0.0487
RT 4.965 Area 45563
R#1 22.50 (0.00)
Q 513.00>468.80 (-) 1.38e4
After-BLC

R1 513.00>219.10 (-) 3.31e3


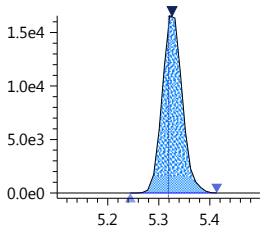
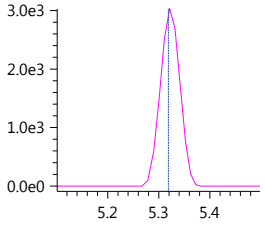
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Conc 5.6622
RT 4.965 Area 4791302
Q 514.80>469.95 (-) 1.58e6


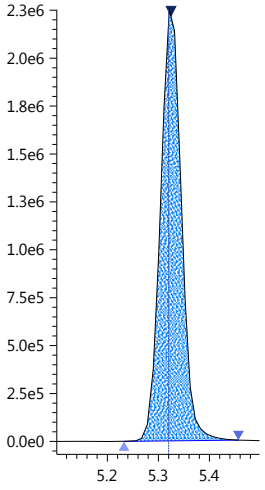
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RT 4.965 Area 4791302
ISTD 514.80>469.95 (-) 1.58e6


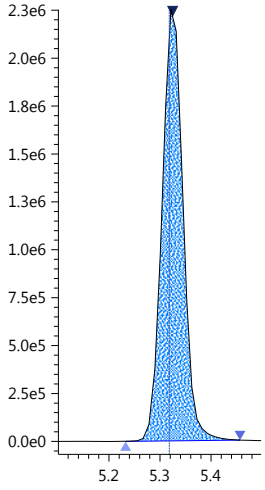
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Conc 0.0510
RT 5.149 Area 47872
R#1 9.27 (0.00)
Q 563.00>518.90 (-) 1.46e4
After-BLC

R1 563.00>219.00 (-) 1.47e3


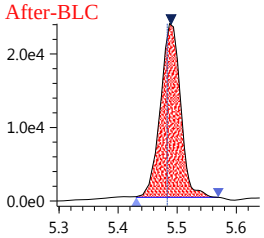
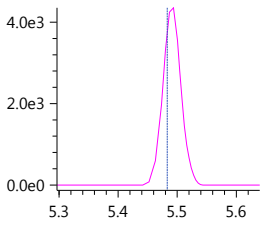
PFUnA-13C
Conc 5.2935
RT 5.149 Area 5034550
Q 564.80>519.95 (-) 1.59e6


PFUnA-13C_IS
Conc 5.0000
RT 5.149 Area 5034550
ISTD 564.80>519.95 (-) 1.59e6


PFDoA
Conc 0.0932
RT 5.326 Area 45626
R#1 18.45 (0.00)
Q 613.05>569.00 (-) 1.66e4

R1 613.05>169.00 (-) 3.03e3


PFDoA-13C
Conc 5.5600
RT 5.325 Area 6417320
Q 614.80>569.95 (-) 2.25e6


PFDoA-13C_IS
Conc 5.0000
RT 5.325 Area 6417320
ISTD 614.80>569.95 (-) 2.25e6


PFTrDA
Conc 0.0489
RT 5.490 Area 56094
R#1 19.07 (0.00)
Q 663.00>618.90 (-) 2.41e4
After-BLC

R1 662.90>169.00 (-) 4.35e3


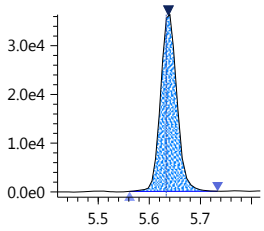
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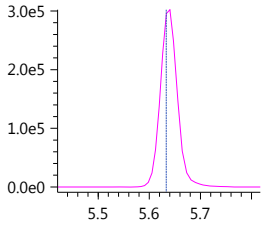
PFTeDA

Conc 0.0381
RT 5.638 Area 81371
R#1 831.38 (0.00)

Q 713.40>669.00 (-) 3.64e4



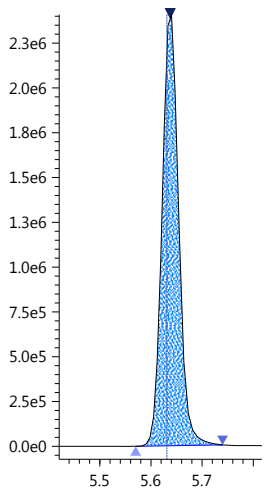
R1 713.40>169.10 (-) 3.02e5



PFTeDA-13C

Conc 5.9413
RT 5.638 Area 5443159

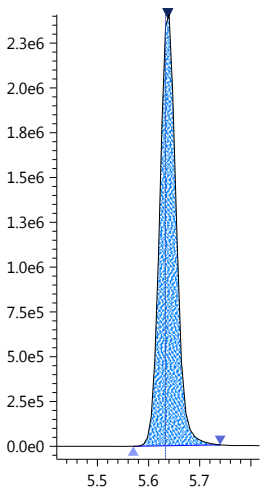
Q 714.70>669.90 (-) 2.41e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.638 Area 5443159

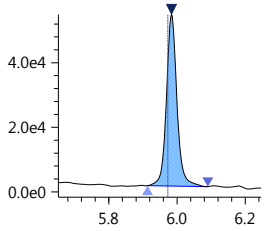
ISTD 714.70>669.90 (-) 2.41e6



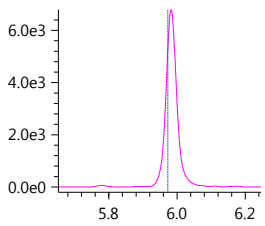
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Conc 0.0457
RT 5.984 Area 113774
R#1 12.01 (0.00)

Q 813.00>769.05 (-) 5.49e4



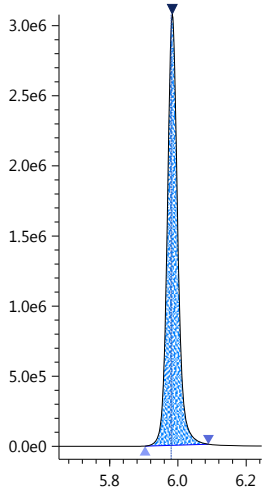
R1 813.00>218.95 (-) 6.79e3



13C-PFHxDA

Conc 5.6001
RT 5.983 Area 6557133

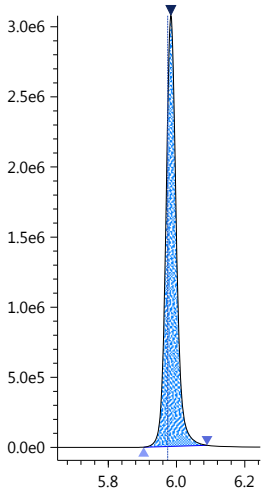
Q 815.00>770.05 (-) 3.08e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.983 Area 6557133

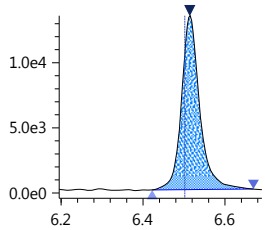
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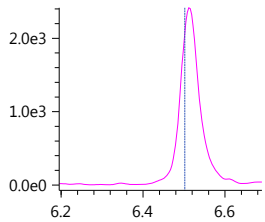
PFODA

Conc 0.0541
RT 6.514 Area 41265
R#1 17.77 (0.00)

Q 913.00>868.85 (-) 1.36e4



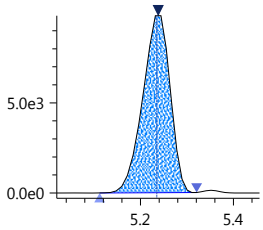
R1 913.00>169.00 (-) 2.42e3



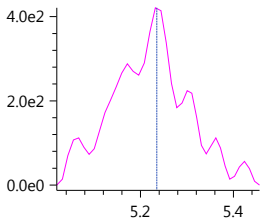
FOSA

Conc 0.0602
RT 5.238 Area 40377
R#1 2.71 (0.00)

Q 498.20>78.00 (-) 9.84e3



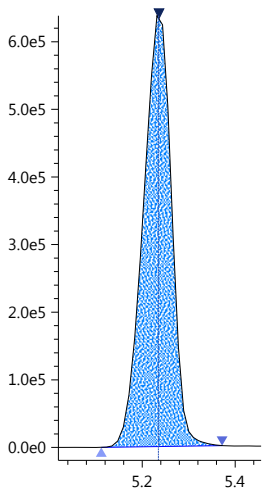
R1 498.20>64.10 (-) 4.21e2



FOSA-13C

Conc 5.4273
RT 5.236 Area 2712978

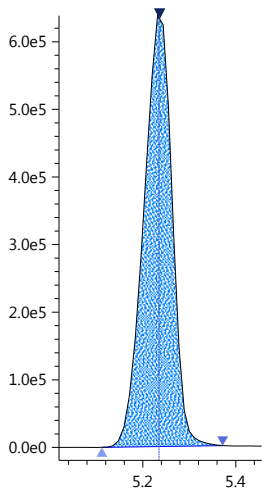
Q 506.00>78.05 (-) 6.39e5



FOSA-13C_IS

Conc 5.0000
RT 5.236 Area 2712978

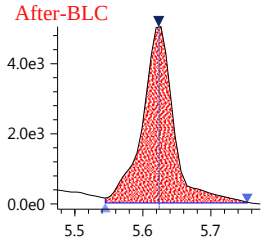
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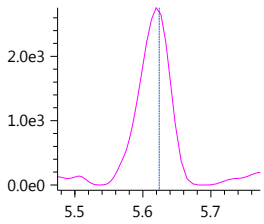
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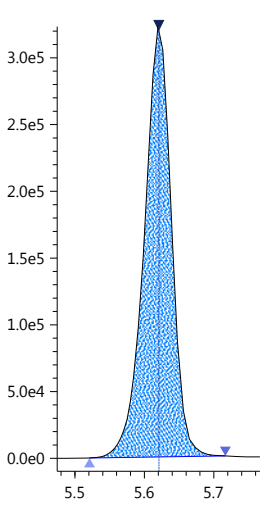
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Conc 0.0649
RT 5.623 Area 16270
R#1 52.27 (0.00)
Q 512.00>169.10 (-) 5.06e3



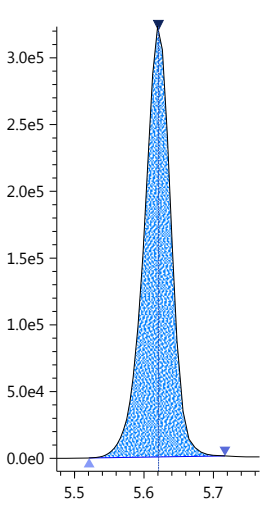
R1 512.00>219.00 (-) 2.76e3



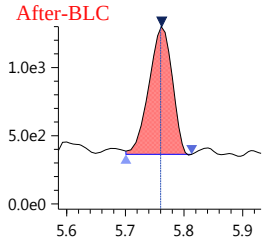
N-MeFOSA-d3
Conc 5.7651
RT 5.621 Area 880273
Q 514.90>168.90 (-) 3.23e5



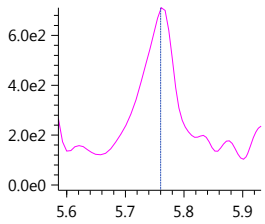
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Conc 5.0000
RT 5.621 Area 880273
ISTD 514.90>168.90 (-) 3.23e5



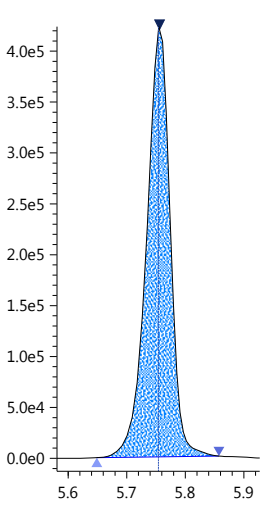
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Conc 0.0572
RT 5.762 Area 2577
R#1 53.52 (0.00)
Q 526.90>169.10 (-) 1.30e3



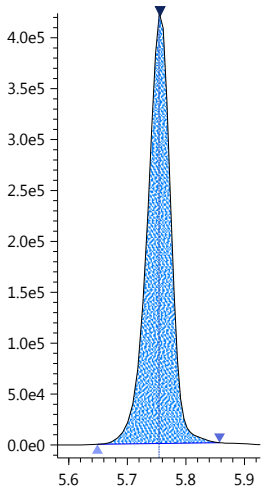
R1 526.90>219.00 (-) 7.11e2



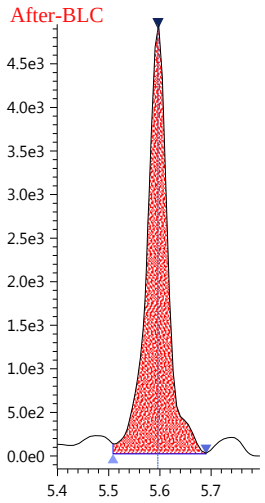
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Conc 5.6722
RT 5.756 Area 1183589
Q 530.90>169.15 (-) 4.24e5



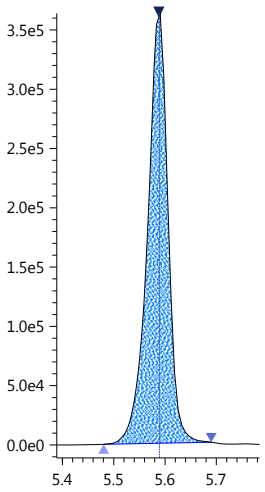
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Conc 5.0000
RT 5.756 Area 1183589
ISTD 530.90>169.15 (-) 4.24e5



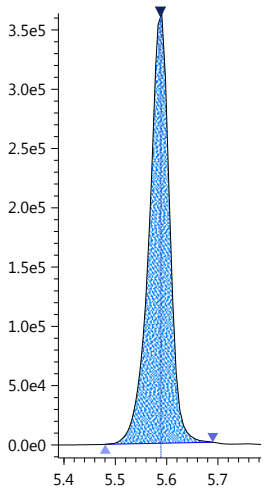
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Conc 0.0553
RT 5.596 Area 14206
Q 616.00>59.00 (-) 4.95e3



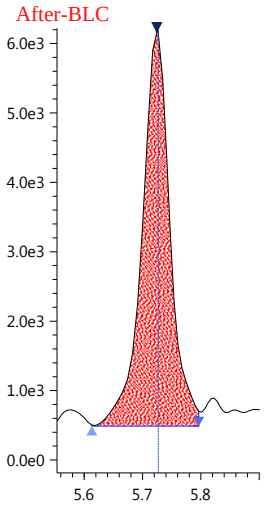
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Conc 5.4359
RT 5.588 Area 1006387
Q 622.70>59.10 (-) 3.64e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.588 Area 1006387
ISTD 622.70>59.10 (-) 3.64e5



N-EtFOSE
Conc 0.0709
RT 5.724 Area 18990
Q 630.00>58.90 (-) 6.22e3



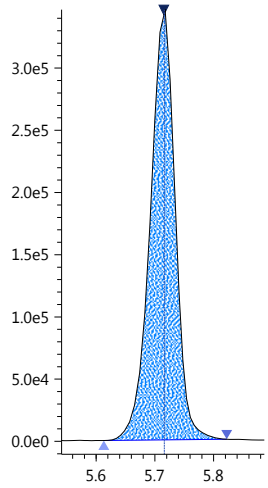
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N-EtFOSE-d9

Conc 5.4171
RT 5.715 Area 1022432

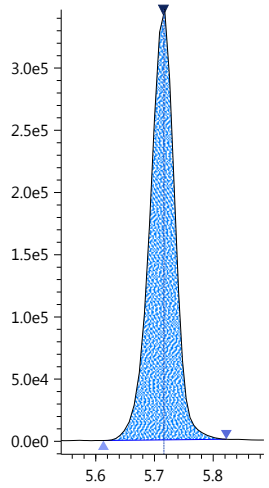
Q 638.70>59.10 (-) 3.47e5



N-EtFOSE-d9_IS

Conc 5.0000
RT 5.715 Area 1022432

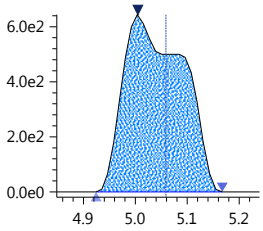
ISTD 638.70>59.10 (-) 3.47e5



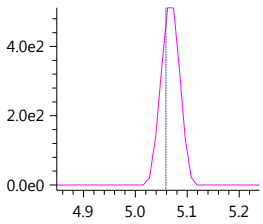
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Conc 0.0762
RT 5.005 Area 5188
R#1 0.00 (0.00)

Q 570.20>419.00 (-) 6.44e2



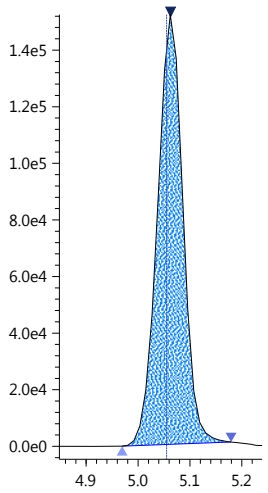
R1 570.20>512.00 (-) 5.12e2



N-MeFOSAA-d3

Conc 5.5579
RT 5.063 Area 519038

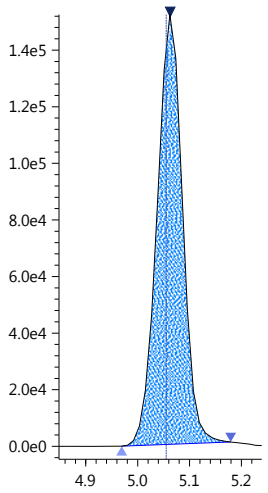
Q 572.80>419.05 (-) 1.53e5



N-MeFOSAA-d3_IS

Conc 5.0000
RT 5.063 Area 519038

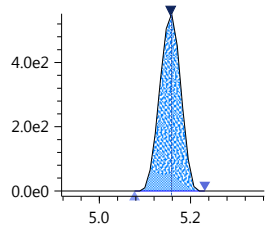
ISTD 572.80>419.05 (-) 1.53e5



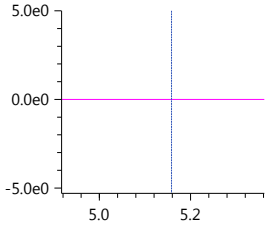
N-EtFOSAA

Conc 0.0415
RT 5.156 Area 1798
R#1 0.00 (0.00)

Q 584.20>418.95 (-) 5.52e2



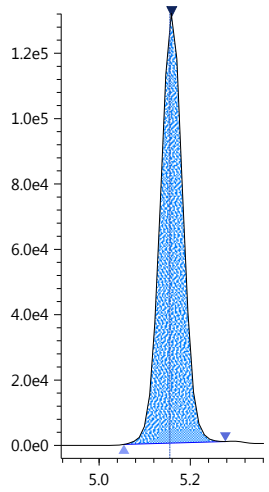
R1 584.20>526.10 (-) 0.00e0



N-EtFOSAA-d5

Conc 5.4137
RT 5.159 Area 461627

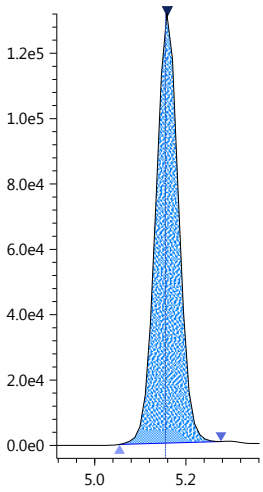
Q 588.80>419.00 (-) 1.32e5



N-EtFOSAA-d5_IS

Conc 5.0000
RT 5.159 Area 461627

ISTD 588.80>419.00 (-) 1.32e5

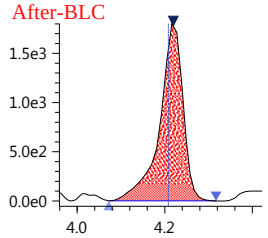


4_2-FTS_1

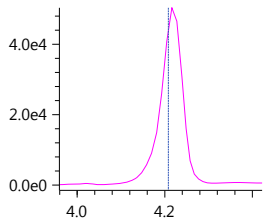
Conc 0.0588
RT 4.220 Area 6616
R#1 2771.16 (0.00)

Q 327.00>307.05 (-) 1.80e3

After-BLC



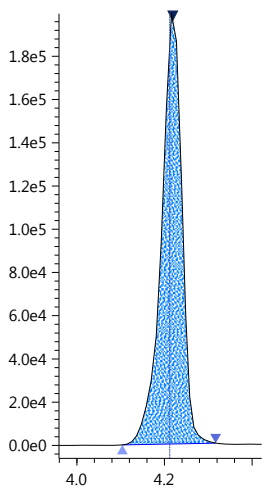
R1 327.00>81.10 (-) 5.04e4



4_2-FTS-13C

Conc 6.1231
RT 4.219 Area 647814

Q 328.80>309.05 (-) 2.00e5

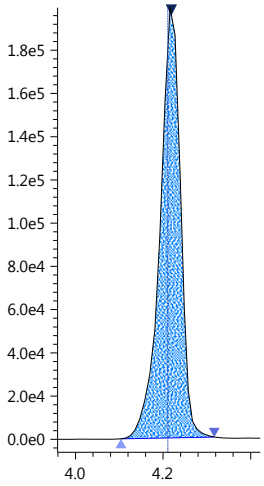


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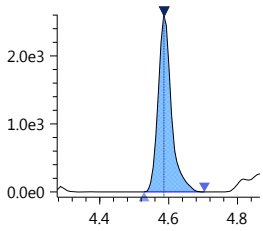
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 647814

ISTD 328.80>309.05 (-) 2.00e5

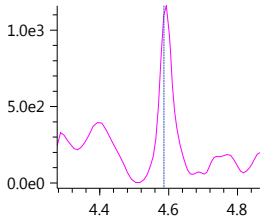


6_2-FTS_1
Conc 0.0599
RT 4.587 Area 6943
R#1 41.07 (0.00)

Q 427.00>407.00 (-) 2.61e3

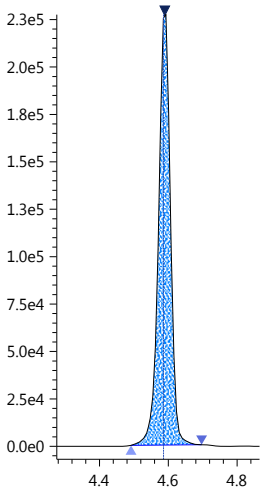


R1 427.00>80.90 (-) 1.16e3



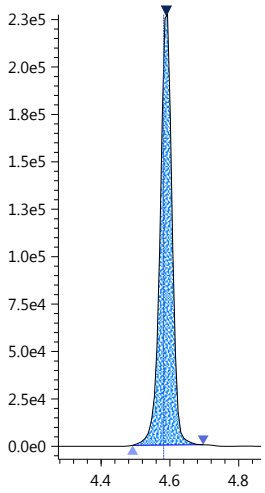
6_2-FTS-13C
Conc 6.1511
RT 4.590 Area 549438

Q 428.90>409.00 (-) 2.28e5



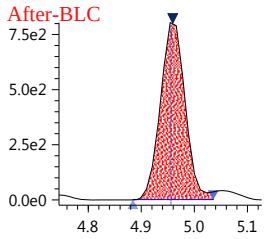
6_2-FTS-13C_IS
Conc 5.0000
RT 4.590 Area 549438

ISTD 428.90>409.00 (-) 2.28e5

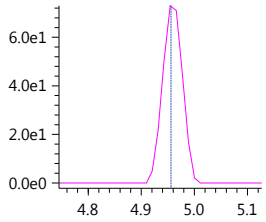


8_2-FTS_1
Conc 0.0546
RT 4.959 Area 2611
R#1 9.19 (0.00)

Q 527.10>506.90 (-) 8.04e2

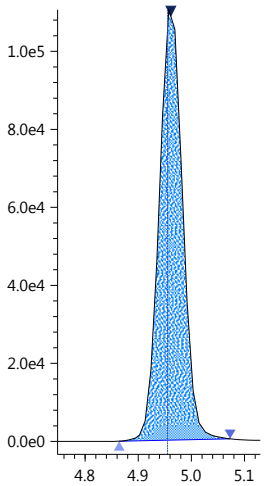


R1 527.20>487.00 (-) 7.30e1



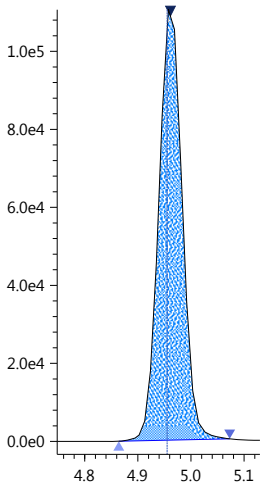
8_2-FTS-13C
Conc 5.8213
RT 4.961 Area 339693

Q 528.80>509.00 (-) 1.11e5



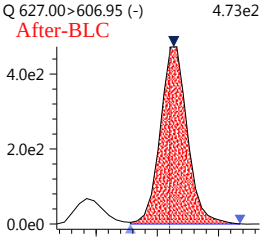
8_2-FTS-13C_IS
Conc 5.0000
RT 4.961 Area 339693

ISTD 528.80>509.00 (-) 1.11e5

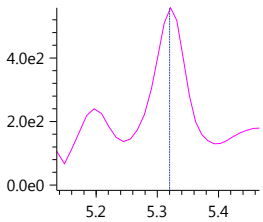


10_2-FtS_1
Conc 0.0495
RT 5.327 Area 1455
R#1 87.86 (0.00)

Q 627.00>606.95 (-) 4.73e2

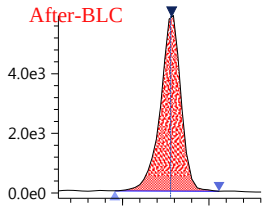


R1 627.00>81.25 (-) 5.58e2

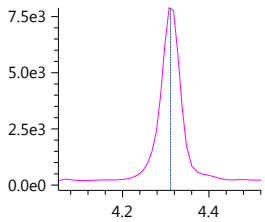


HPFO_DA
Conc 0.0374
RT 4.314 Area 19582
R#1 131.81 (0.00)

Q 329.00>169.00 (-) 5.95e3

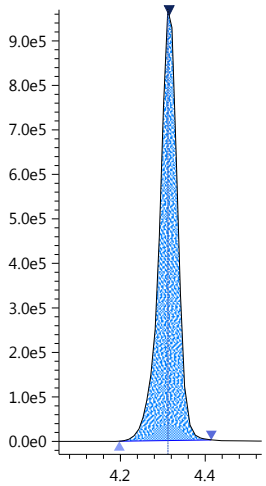


R1 329.00>285.10 (-) 7.89e3



HFPO_DA-13C
Conc 7.5231
RT 4.315 Area 2900623

Q 332.00>286.80 (-) 9.70e5



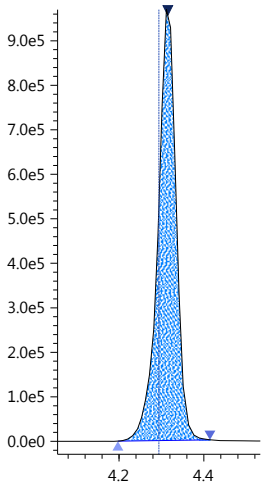
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.315 Area 2900623

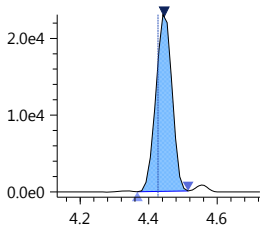
ISTD 332.00>286.80 (-) 9.70e5



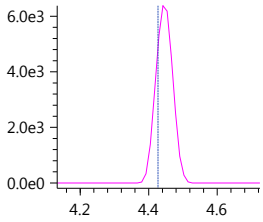
ADONA

Conc 0.0472
RT 4.445 Area 76058
R#1 27.92 (0.00)

Q 377.00>251.00 (-) 2.31e4



R1 377.00>84.95 (-) 6.38e3



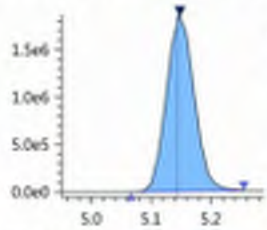
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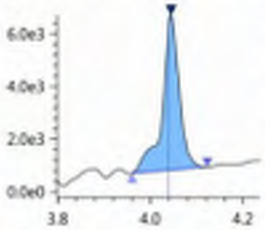
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Date acquired: 9/17/2019 3:51:48 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_006.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

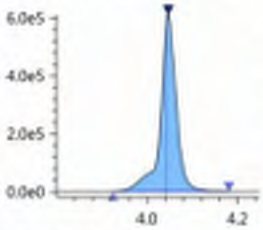
13C7-PFUnDA_IS
Conc 5.0000
RT 5.148 Area 6000085
ISTD 570.00>525.00 (-) 1.87e6



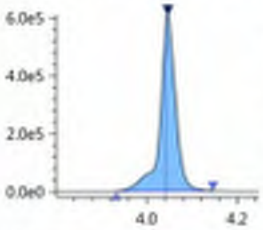
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RT 4.045 Area 14811
Q 299.00>80.00 (-) 6.73e3



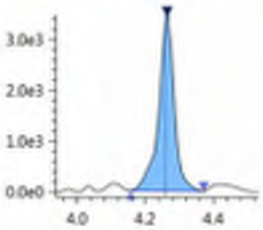
PFBS-13C
Conc 5.2510
RT 4.047 Area 1464383
Q 301.80>80.00 (-) 6.12e5



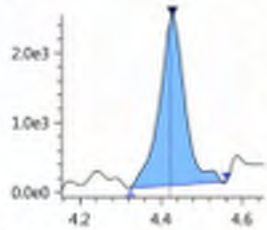
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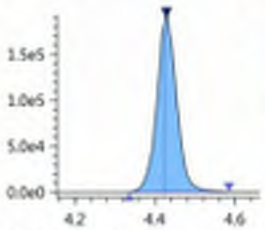
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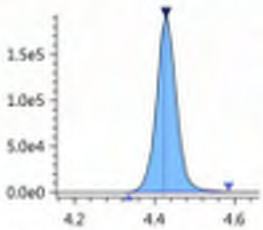
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Conc 0.0592
RT 4.428 Area 10694
Q 399.00>80.00 (-) 2.55e3



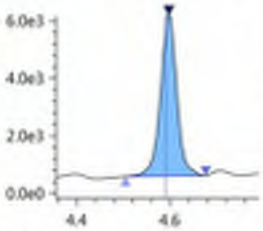
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Q 402.70>84.05 (-) 1.93e5



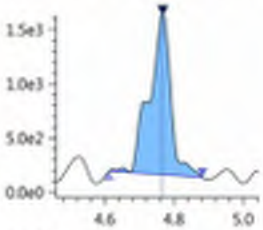
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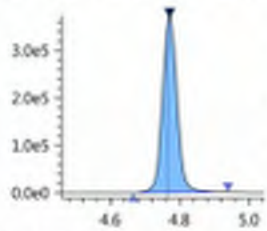
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Q 449.00>80.15 (-) 6.16e3



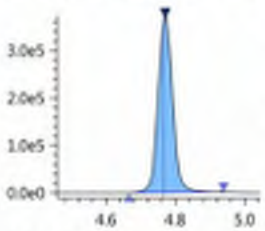
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RT 4.767 Area 6460
Q 499.00>80.00 (-) 1.63e3



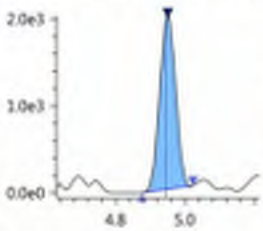
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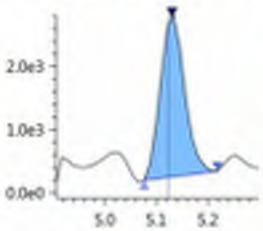
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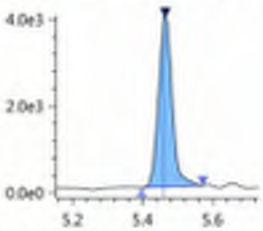
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Q 549.00>99.00 (-) 2.04e3



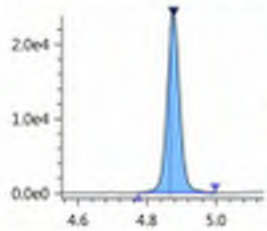
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Q 599.00>79.90 (-) 2.81e3



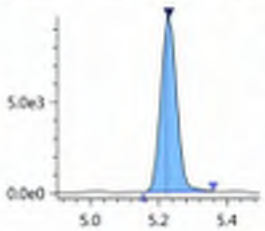
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Q 699.00>79.95 (-) 4.09e3



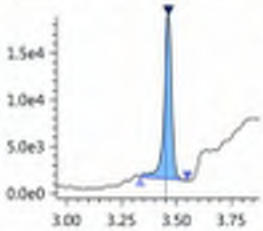
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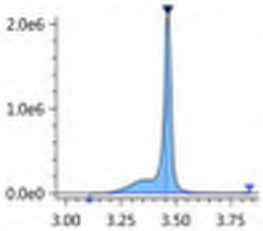
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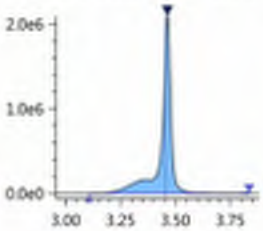
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Conc 0.0429
RT 3.463 Area 40848
Q 213.00>169.10 (-) 1.89e4



PFBA-13C
Conc 5.7649
RT 3.463 Area 6334399
Q 216.90>172.15 (-) 2.09e6



PFBA-13C_IS
Conc 5.0000
RT 3.463 Area 6334399
ISTD 216.90>172.15 (-) 2.09e6

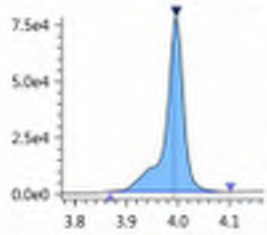


Manual Integration - Before

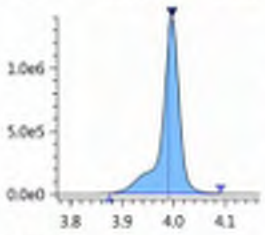
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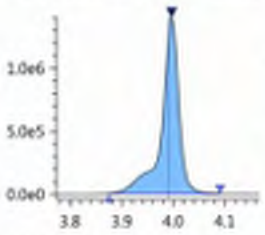
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RT 3.996 Area 189622
Q 263.05>219.10 (-) 7.86e4



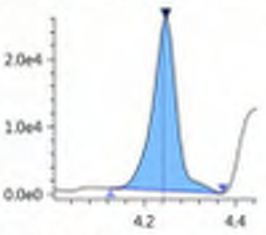
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Conc 5.8300
RT 3.997 Area 3224323
Q 267.90>223.00 (-) 1.41e6



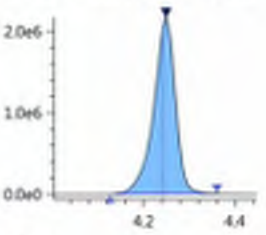
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ISTD 267.90>223.00 (-) 1.41e6



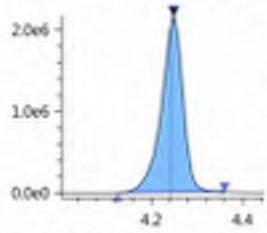
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RT 4.247 Area 94081
Q 313.00>269.00 (-) 2.63e4



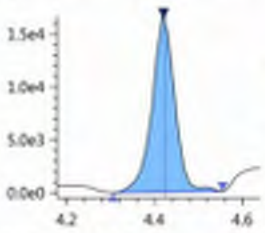
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Q 314.90>270.10 (-) 2.17e6



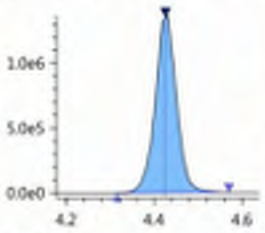
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Conc 5.0000
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ISTD 314.90>270.10 (-) 2.17e6



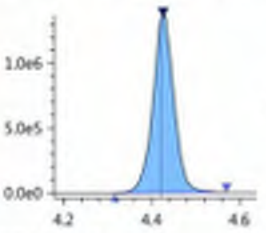
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RT 4.420 Area 59968
Q 362.90>319.00 (-) 1.67e4



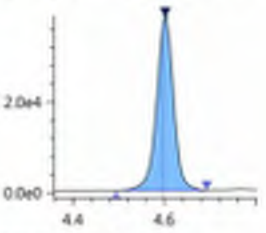
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RT 4.426 Area 4570880
Q 366.90>322.10 (-) 1.37e6



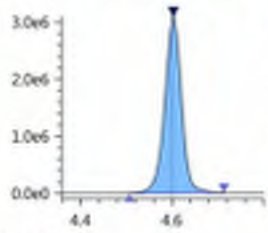
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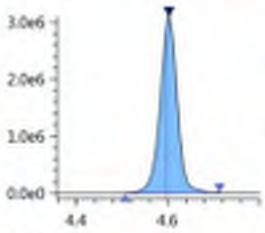
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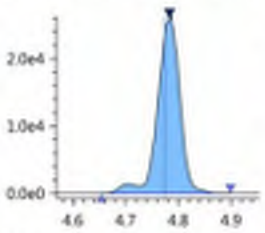
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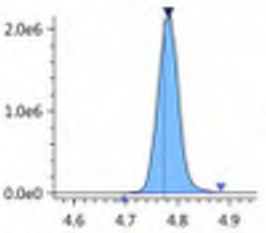
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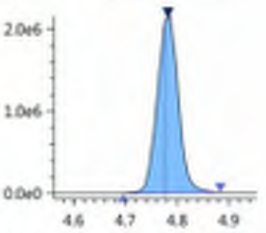
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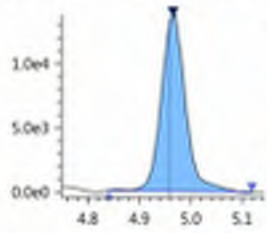
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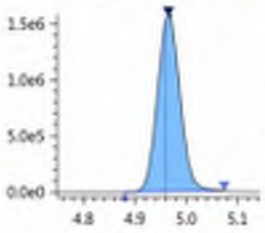
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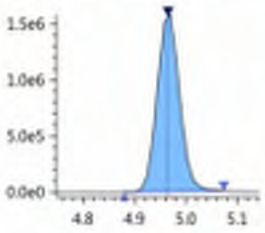
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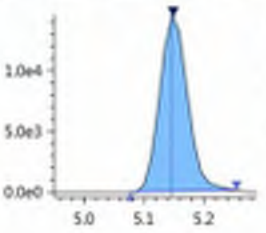
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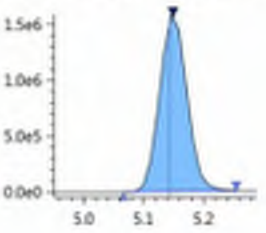
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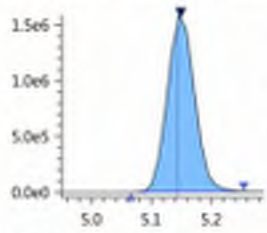
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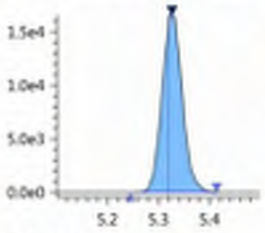
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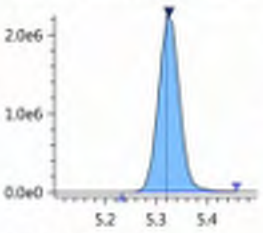
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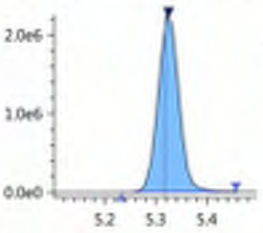
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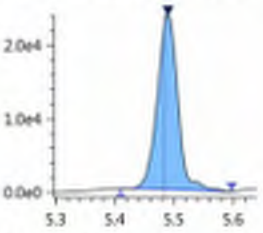
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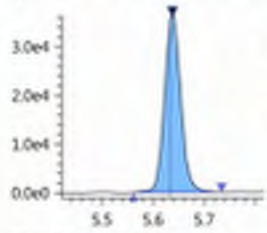
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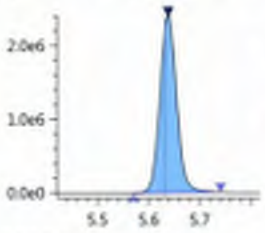
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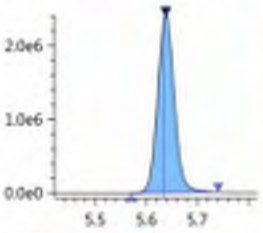
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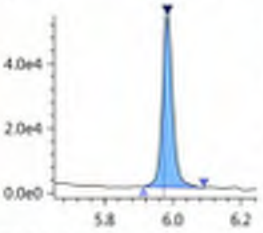
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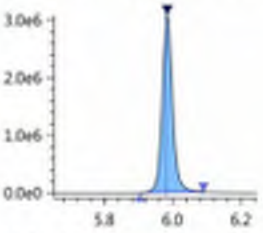
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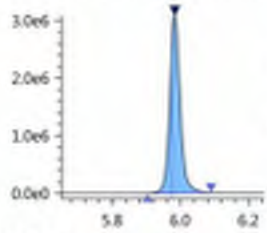
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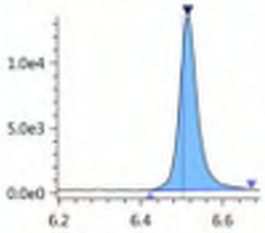
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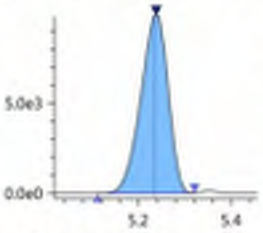
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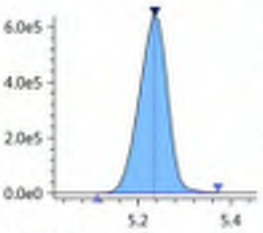
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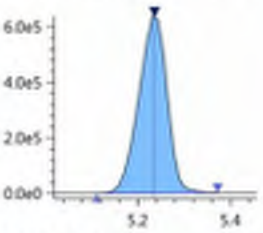
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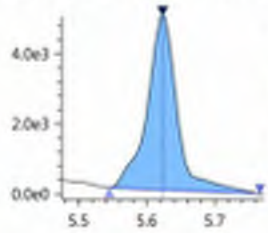
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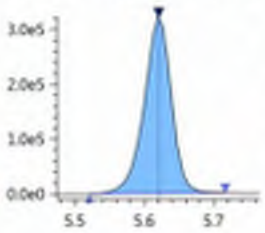
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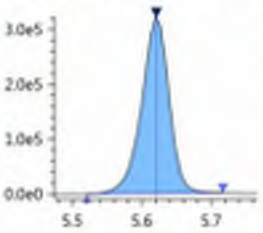
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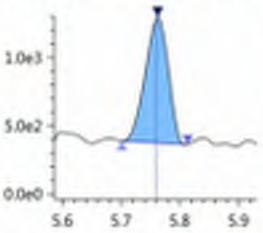
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Q 514.90>168.90 (-) 3.23e5



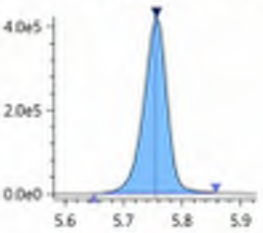
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ISTD 514.90>168.90 (-) 3.23e5



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RT 5.762 Area 2500
Q 526.90>169.10 (-) 1.30e3



N-EtFOSA-d9
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Q 530.90>169.15 (-) 4.24e5

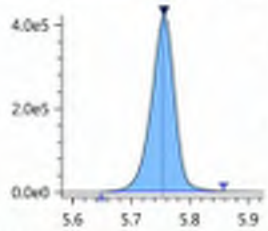


Manual Integration - Before

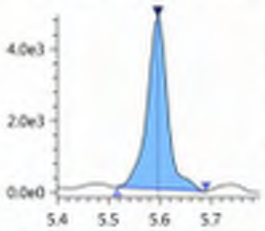
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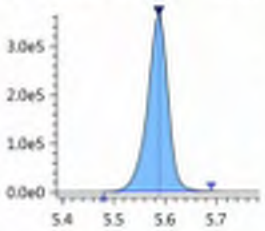
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ISTD 530.90>169.15 (-) 4.24e5



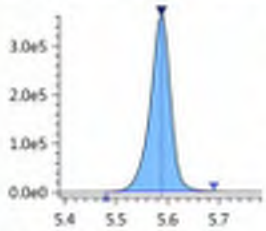
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Q 616.00>59.00 (-) 4.95e3



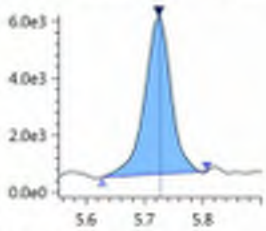
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Q 622.70>59.10 (-) 3.64e5



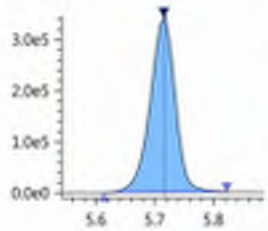
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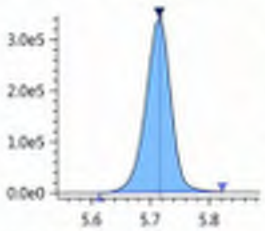
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Q 630.00>58.90 (-) 6.22e3



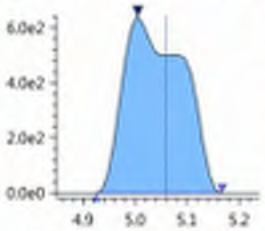
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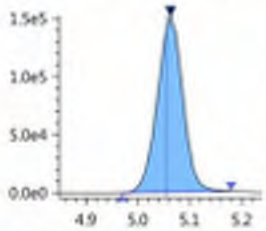
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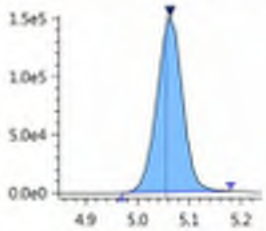
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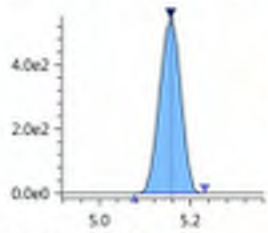
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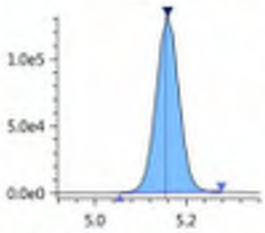
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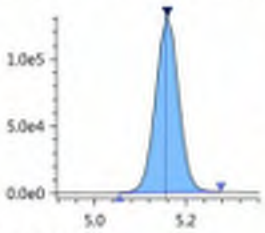
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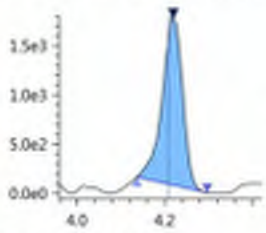
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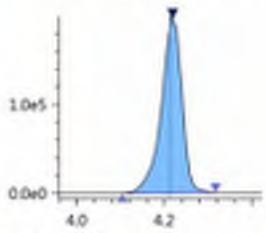
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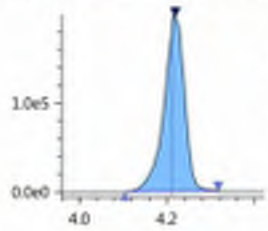
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Q 327.00>307.05 (-) 1.80e3



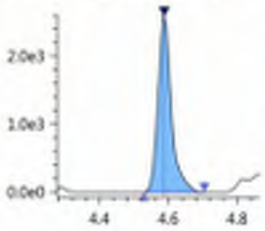
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RT 4.219 Area 647814
Q 328.80>309.05 (-) 2.00e5



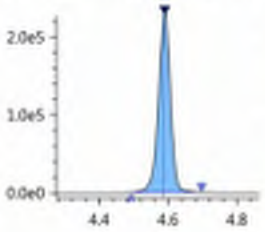
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 647814
ISTD 328.80>309.05 (-) 2.00e5



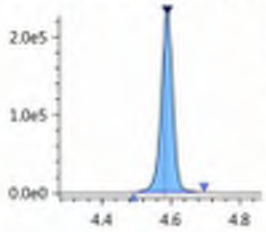
6_2-FTS_1
Conc 0.0599
RT 4.587 Area 6943
Q 427.00>407.00 (-) 2.61e3



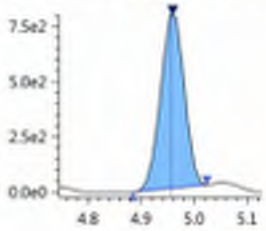
6_2-FTS-13C
Conc 6.1511
RT 4.590 Area 549438
Q 428.90>409.00 (-) 2.28e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.590 Area 549438
ISTD 428.90>409.00 (-) 2.28e5



8_2-FTS_1
Conc 0.0522
RT 4.959 Area 2462
Q 527.10>506.90 (-) 8.04e2

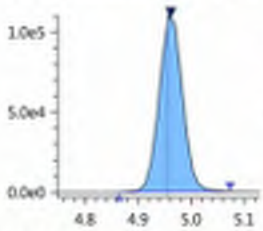


Manual Integration - Before

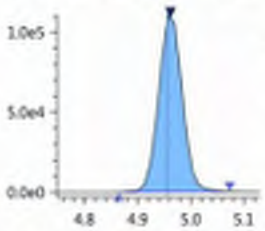
Insight Report

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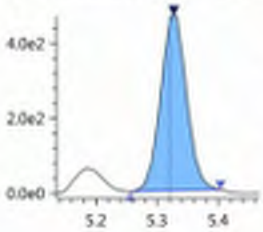
8_2-FTS-13C
Conc 5.8213
RT 4.961 Area 339693
Q 528.80>509.00 (-) 1.11e5



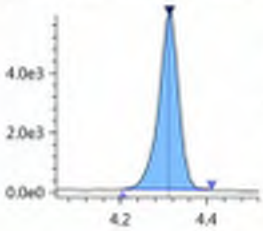
8_2-FTS-13C_IS
Conc 5.0000
RT 4.961 Area 339693
ISTD 528.80>509.00 (-) 1.11e5



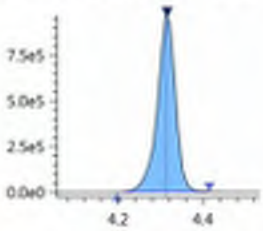
10_2-FtS_1
Conc 0.0476
RT 5.327 Area 1386
Q 627.00>606.95 (-) 4.73e2



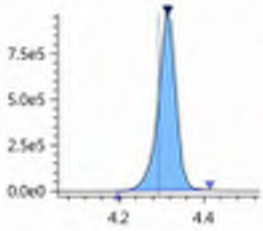
HPFO_DA
Conc 0.0399
RT 4.314 Area 19239
Q 329.00>169.00 (-) 5.95e3



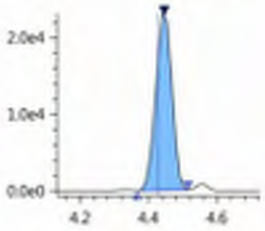
HFPO_DA-13C
Conc 6.6540
RT 4.315 Area 2900623
Q 332.00>286.80 (-) 9.70e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.315 Area 2900623
ISTD 332.00>286.80 (-) 9.70e5



ADONA
Conc 0.0475
RT 4.445 Area 76058
Q 377.00>251.00 (-) 2.31e4



Manual Integration - Before

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Insight Report

Printed at 9/18/2019 9:25:42 AM

190917_007

Sample ID: 0.10 PPB ICAL
Date acquired: 9/17/2019 4:02:25 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_007.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.152	7771336	7771336	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.049	30899	1409881	2	0.1080	ng/mL	0.0887
PFBS-13C	Auto	4.050	1415821	7771336	1	3.9197	ng/mL	5.0000
PFBS-13C_IS	Auto	4.050	1409881	1409881	2	5.0000	ng/mL	5.0000
PFPeS	M	4.268	14189	1409881	2	0.0958	ng/mL	0.0941
PFHxS_1	M	4.429	31288	934089	3	0.1061	ng/mL	0.0913
PFHxS-18O	Auto	4.433	934089	7771336	1	5.2249	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.433	934089	934089	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.600	24869	934089	3	0.0864	ng/mL	0.0953
PFOS_1	Auto	4.775	14758	1053009	4	0.1021	ng/mL	0.0929
PFOS-13C	Auto	4.775	1053009	7771336	1	4.0412	ng/mL	5.0000
PFOS-13C_IS	Auto	4.775	1053009	1053009	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.956	9602	1053009	4	0.0862	ng/mL	0.0962
PFDS_1	M	5.129	12354	1053009	4	0.0854	ng/mL	0.0965
PFDOS	M	5.467	21534	1053009	4	0.1221	ng/mL	0.0970
9Cl-PF3ONS	Auto	4.880	119603	2245046	26	0.1037	ng/mL	0.0933
11Cl-PF3OUdS	M	5.233	85719	2245046	26	0.1083	ng/mL	0.0943
PFBA	Auto	3.464	101565	6229513	5	0.1055	ng/mL	0.1000
PFBA-13C	Auto	3.463	6229513	7771336	1	4.4182	ng/mL	5.0000
PFBA-13C_IS	Auto	3.463	6229513	6229513	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.999	242064	3181992	6	0.1004	ng/mL	0.1000
PFPeA-13C	Auto	3.999	3181992	7771336	1	4.4422	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.999	3181992	3181992	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.252	187263	8735731	7	0.0912	ng/mL	0.1000
PFHxA-13C	Auto	4.252	8735731	7771336	1	5.0594	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.252	8735731	8735731	7	5.0000	ng/mL	5.0000
PFHpA	M	4.433	128205	5255977	8	0.1068	ng/mL	0.1000
PFHpA-13C	Auto	4.432	5255977	7771336	1	4.5008	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.432	5255977	5255977	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.607	177356	9262575	9	0.0925	ng/mL	0.1000
PFOA-13C	Auto	4.606	9262575	7771336	1	4.9234	ng/mL	5.0000
PFOA-13C_IS	Auto	4.606	9262575	9262575	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.785	120309	5716204	10	0.1045	ng/mL	0.1000
PFNA-13C	Auto	4.786	5716204	7771336	1	4.3143	ng/mL	5.0000
PFNA-13C_IS	Auto	4.786	5716204	5716204	10	5.0000	ng/mL	5.0000
PFDA	M	4.971	78016	4285218	11	0.1045	ng/mL	0.1000
PFDA-13C	Auto	4.970	4285218	7771336	1	3.9099	ng/mL	5.0000
PFDA-13C_IS	Auto	4.970	4285218	4285218	11	5.0000	ng/mL	5.0000
PFUnA	M	5.153	98804	6364768	12	0.0973	ng/mL	0.1000
PFUnA-13C	Auto	5.152	6364768	7771336	1	5.1669	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.152	6364768	6364768	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.328	57113	7163863	13	0.1015	ng/mL	0.1000
PFDoA-13C	Auto	5.327	7163863	7771336	1	4.7922	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.327	7163863	7163863	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.495	100949	4754242	14	0.1052	ng/mL	0.1000
PFTeDA	Auto	5.640	101294	4754242	14	0.1173	ng/mL	0.1000
PFTeDA-13C	Auto	5.640	4754242	7771336	1	4.0066	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.640	4754242	4754242	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.986	159748	6533292	15	0.0926	ng/mL	0.1000
13C-PFHxDA	Auto	5.986	6533292	7771336	1	4.3080	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.986	6533292	6533292	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.515	80033	6533292	15	0.1053	ng/mL	0.1000
FOSA	Auto	5.244	79090	3096056	16	0.1034	ng/mL	0.1000
FOSA-13C	Auto	5.244	3096056	7771336	1	4.7820	ng/mL	5.0000
FOSA-13C_IS	Auto	5.244	3096056	3096056	16	5.0000	ng/mL	5.0000
N-MeFOSA	M	5.629	28158	861365	17	0.1149	ng/mL	0.1000
N-MeFOSA-d3	Auto	5.625	861365	7771336	1	4.3555	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.625	861365	861365	17	5.0000	ng/mL	5.0000
N-EtFOSA	M	5.767	4469	1151354	18	0.1019	ng/mL	0.1000
N-EtFOSA-d9	Auto	5.761	1151354	7771336	1	4.2601	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.761	1151354	1151354	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.600	26756	1065590	19	0.0984	ng/mL	0.1000
N-MeFOSE-d7	Auto	5.592	1065590	7771336	1	4.4438	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.592	1065590	1065590	19	5.0000	ng/mL	5.0000
N-EtFOSE	M	5.733	30778	1100540	20	0.1067	ng/mL	0.1000
N-EtFOSE-d9	Auto	5.719	1100540	7771336	1	4.5019	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.719	1100540	1100540	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.064	8577	533977	21	0.1224	ng/mL	0.1000

Insight Report

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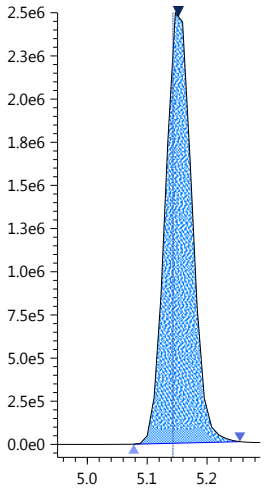
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.066	533977	7771336	1	4.4147	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.066	533977	533977	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.165	3997	535879	22	0.0795	ng/mL	0.1000
N-EtFOSAA-d5	Auto	5.162	535879	7771336	1	4.8521	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.162	535879	535879	22	5.0000	ng/mL	5.0000
4_2-FTS_1	M	4.219	14739	764152	23	0.1110	ng/mL	0.0937
4_2-FTS-13C	Auto	4.221	764152	7771336	1	5.5765	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.221	764152	764152	23	5.0000	ng/mL	5.0000
6_2-FTS_1	M	4.593	10024	490639	24	0.0969	ng/mL	0.0951
6_2-FTS-13C	Auto	4.593	490639	7771336	1	4.2409	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.593	490639	490639	24	5.0000	ng/mL	5.0000
8_2-FTS_1	M	4.961	4777	359973	25	0.0942	ng/mL	0.0960
8_2-FTS-13C	Auto	4.964	359973	7771336	1	4.7628	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.964	359973	359973	25	5.0000	ng/mL	5.0000
10_2-FtS_1	M	5.329	3054	359973	25	0.0980	ng/mL	0.0966
HPFO_DA	Auto	4.319	40345	2245046	26	0.0996	ng/mL	0.1000
HFPO_DA-13C	Auto	4.317	2245046	7771336	1	4.4957	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.317	2245046	2245046	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.449	113699	2245046	26	0.0911	ng/mL	0.0945

13C7-PFUnDA_IS

Conc 5.0000
RT 5.152 Area 7771336

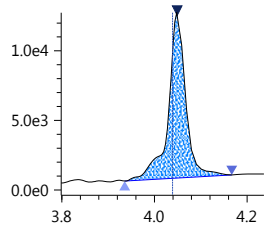
ISTD 570.00>525.00 (-) 2.50e6



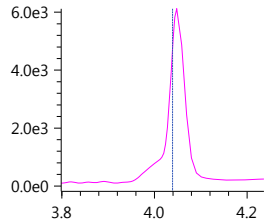
PFBS_1

Conc 0.1080
RT 4.049 Area 30899
R#1 49.48 (0.00)

Q 299.00>80.00 (-) 1.27e4



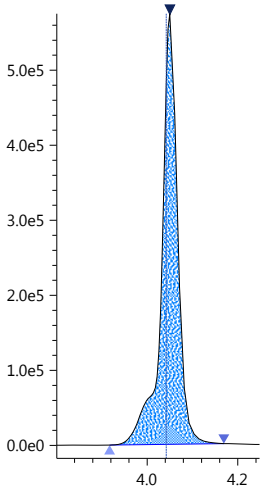
R1 298.80>99.00 (-) 6.12e3



PFBS-13C

Conc 3.9197
RT 4.050 Area 1415821

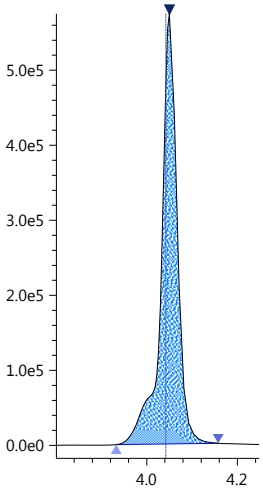
Q 301.80>80.00 (-) 5.75e5



PFBS-13C_IS

Conc 5.0000
RT 4.050 Area 1409881

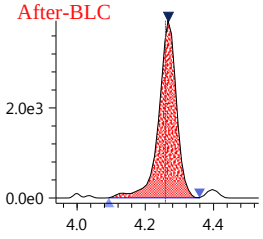
ISTD 301.80>80.00 (-) 5.75e5



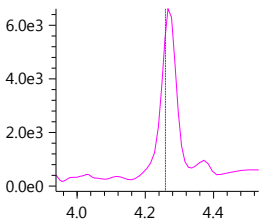
PFPeS

Conc 0.0958
RT 4.268 Area 14189
R#1 150.52 (0.00)

Q 349.00>99.00 (-) 3.94e3



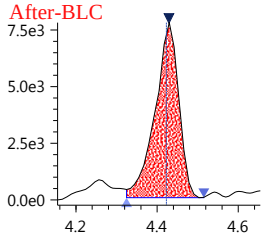
R1 349.00>79.95 (-) 6.62e3



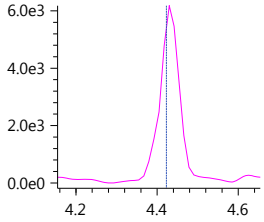
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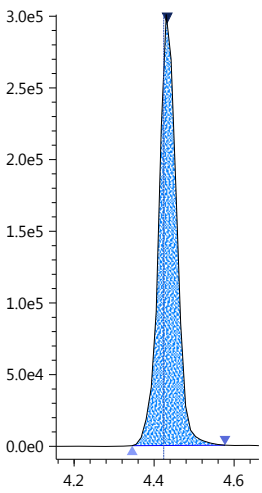
PFHxS_1
Conc 0.1061
RT 4.429 Area 31288
R#1 78.07 (0.00)
Q 399.00>80.00 (-) 7.83e3



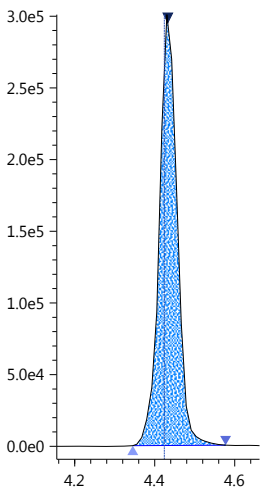
R1 399.00>99.00 (-) 6.18e3



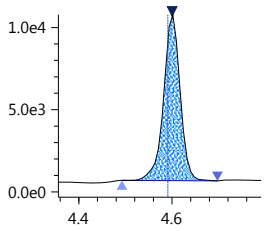
PFHxS-18O
Conc 5.2249
RT 4.433 Area 934089
Q 402.70>84.05 (-) 3.01e5



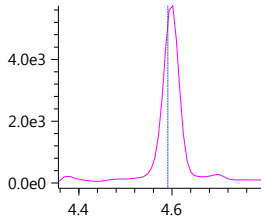
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Conc 5.0000
RT 4.433 Area 934089
ISTD 402.70>84.05 (-) 3.01e5



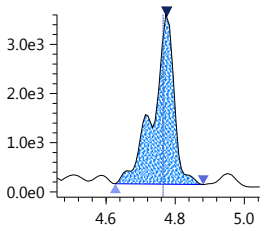
PFHpS_1
Conc 0.0864
RT 4.600 Area 24869
R#1 54.50 (0.00)
Q 449.00>80.15 (-) 1.08e4



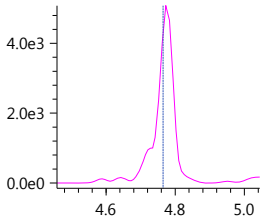
R1 449.00>99.20 (-) 5.74e3



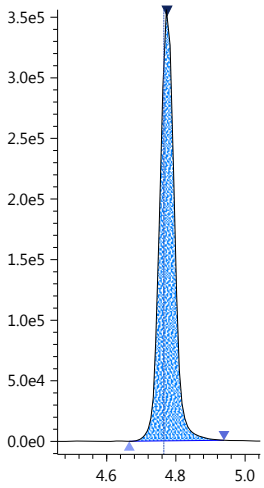
PFOS_1
Conc 0.1021
RT 4.775 Area 14758
R#1 144.29 (0.00)
Q 499.00>80.00 (-) 3.61e3



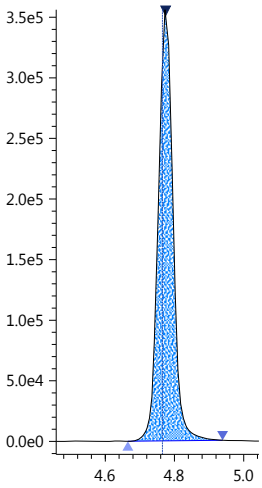
R1 499.00>99.00 (-) 5.08e3



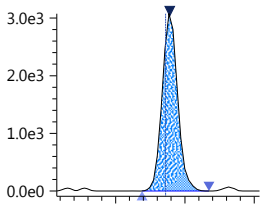
PFOS-13C
Conc 4.0412
RT 4.775 Area 1053009
Q 502.80>80.05 (-) 3.56e5



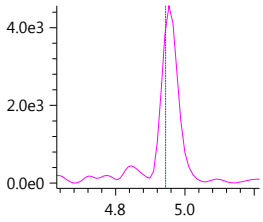
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Conc 5.0000
RT 4.775 Area 1053009
ISTD 502.80>80.05 (-) 3.56e5



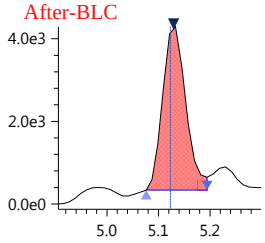
PFNS
Conc 0.0862
RT 4.956 Area 9602
R#1 143.73 (0.00)
Q 549.00>99.00 (-) 3.08e3



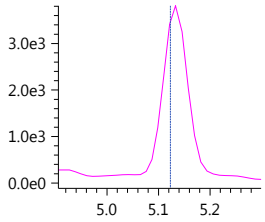
R1 549.00>79.95 (-) 4.57e3



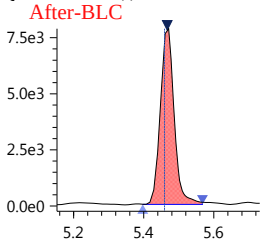
PFDS_1
Conc 0.0854
RT 5.129 Area 12354
R#1 95.32 (0.00)
Q 599.00>79.90 (-) 4.29e3



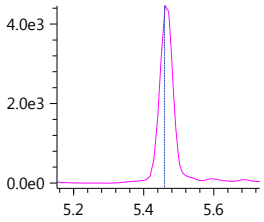
R1 599.00>99.10 (-) 3.81e3



PFDOS
Conc 0.1221
RT 5.467 Area 21534
R#1 55.42 (0.00)
Q 699.00>79.95 (-) 7.90e3



R1 699.00>99.05 (-) 4.46e3



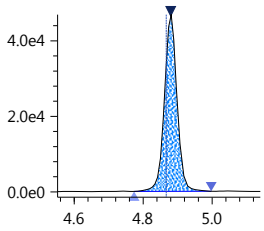
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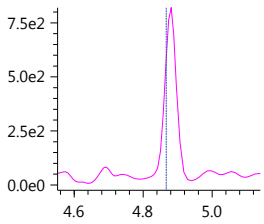
9Cl-PF3ONS

Conc 0.1037
RT 4.880 Area 119603
R#1 1.64 (0.00)

Q 531.00>351.00 (-) 4.69e4



R1 531.00>98.90 (-) 8.20e2

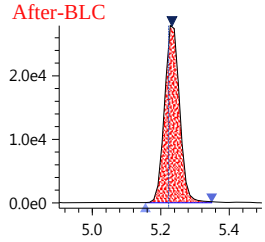


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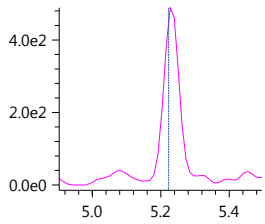
Conc 0.1083
RT 5.233 Area 85719
R#1 1.74 (0.00)

Q 631.00>451.05 (-) 2.79e4

After-BLC



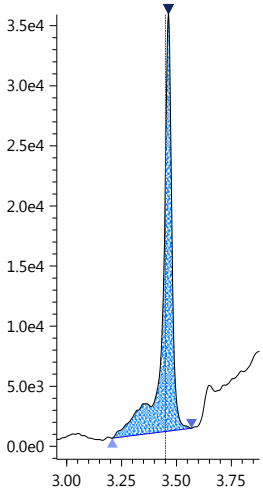
R1 631.00>98.90 (-) 4.89e2



PFBA

Conc 0.1055
RT 3.464 Area 101565

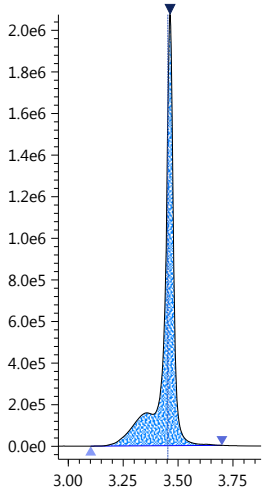
Q 213.00>169.10 (-) 3.59e4



PFBA-13C

Conc 4.4182
RT 3.463 Area 6229513

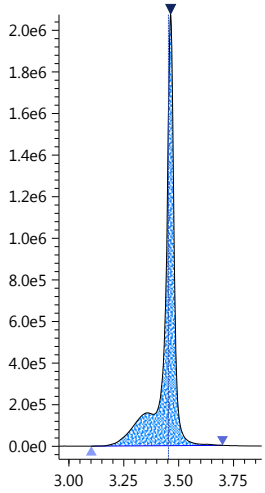
Q 216.90>172.15 (-) 2.08e6



PFBA-13C_IS

Conc 5.0000
RT 3.463 Area 6229513

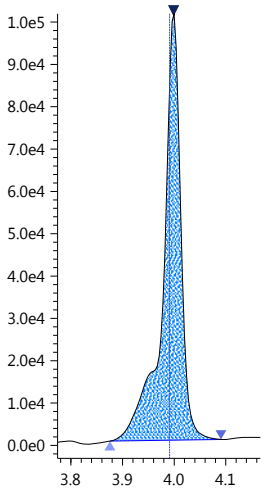
ISTD 216.90>172.15 (-) 2.08e6



PFPeA

Conc 0.1004
RT 3.999 Area 242064

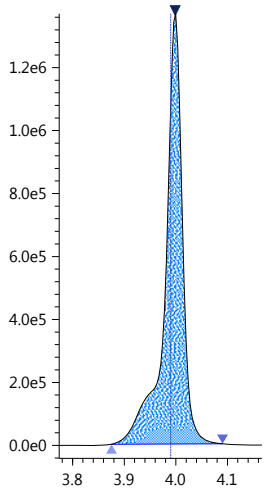
Q 263.05>219.10 (-) 1.02e5



PFPeA-13C

Conc 4.4422
RT 3.999 Area 3181992

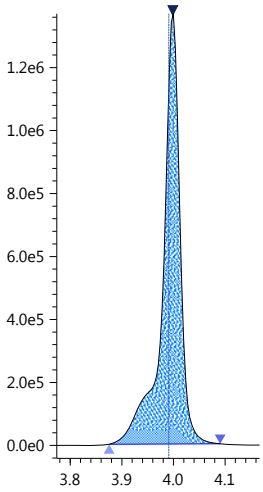
Q 267.90>223.00 (-) 1.37e6



PFPeA-13C_IS

Conc 5.0000
RT 3.999 Area 3181992

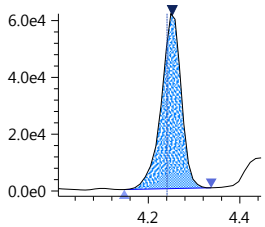
ISTD 267.90>223.00 (-) 1.37e6



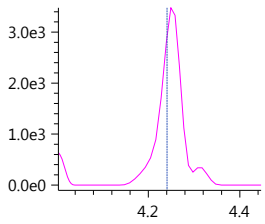
PFHxA

Conc 0.0912
RT 4.252 Area 187263
R#1 5.56 (0.00)

Q 313.00>269.00 (-) 6.24e4



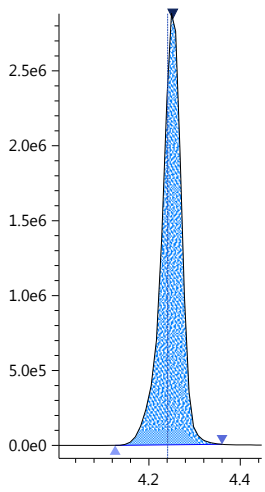
R1 313.00>119.10 (-) 3.48e3



PFHxA-13C

Conc 5.0594
RT 4.252 Area 8735731

Q 314.90>270.10 (-) 2.88e6



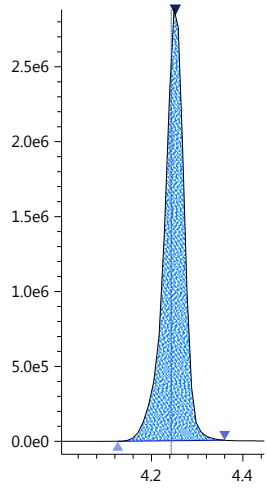
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PFHxA-13C_IS

Conc 5.0000
RT 4.252 Area 8735731

ISTD 314.90>270.10 (-) 2.88e6

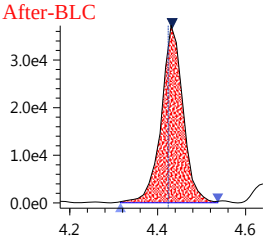


PFHpA

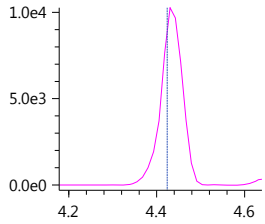
Conc 0.1068
RT 4.433 Area 128205
R#1 27.81 (0.00)

Q 362.90>319.00 (-) 3.72e4

After-BLC



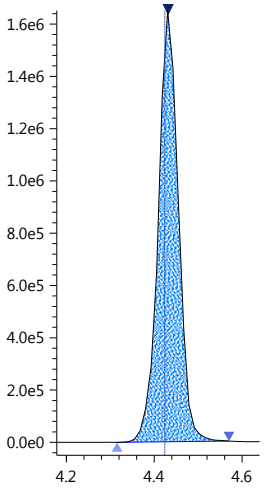
R1 362.90>169.00 (-) 1.03e4



PFHpA-13C

Conc 4.5008
RT 4.432 Area 5255977

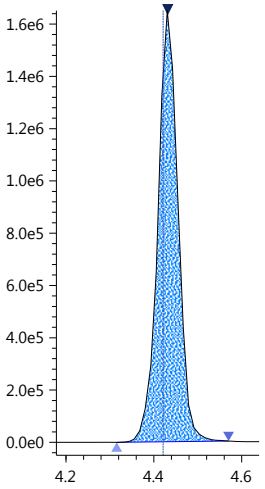
Q 366.90>322.10 (-) 1.65e6



PFHpA-13C_IS

Conc 5.0000
RT 4.432 Area 5255977

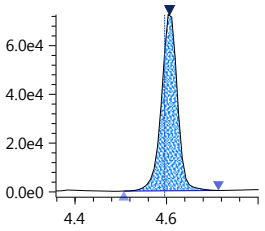
ISTD 366.90>322.10 (-) 1.65e6



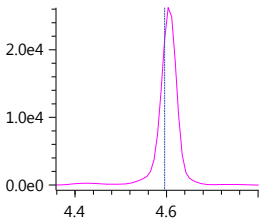
PFOA

Conc 0.0925
RT 4.607 Area 177356
R#1 36.20 (0.00)

Q 413.00>369.00 (-) 7.27e4



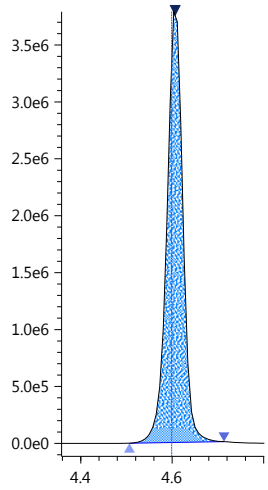
R1 413.00>169.10 (-) 2.62e4



PFOA-13C

Conc 4.9234
RT 4.606 Area 9262575

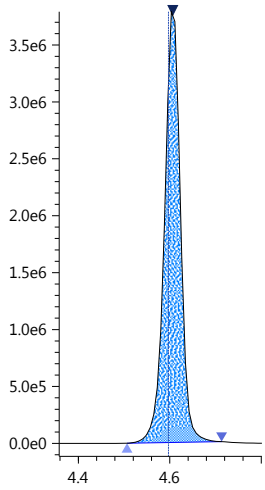
Q 416.80>372.05 (-) 3.79e6



PFOA-13C_IS

Conc 5.0000
RT 4.606 Area 9262575

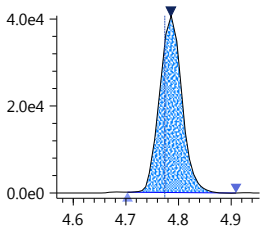
ISTD 416.80>372.05 (-) 3.79e6



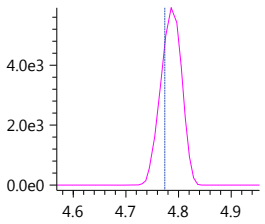
PFNA

Conc 0.1045
RT 4.785 Area 120309
R#1 14.49 (0.00)

Q 463.00>418.90 (-) 4.08e4



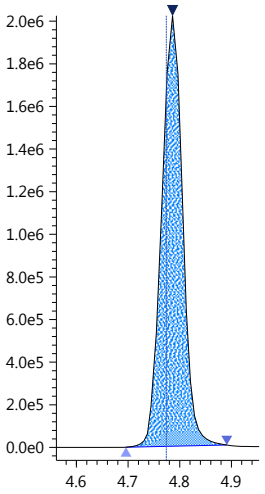
R1 463.00>219.00 (-) 5.92e3



PFNA-13C

Conc 4.3143
RT 4.786 Area 5716204

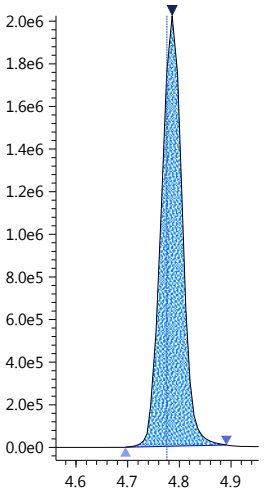
Q 467.80>423.00 (-) 2.03e6



PFNA-13C_IS

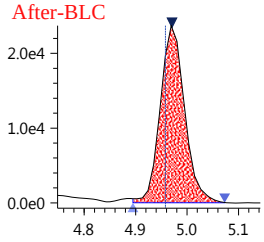
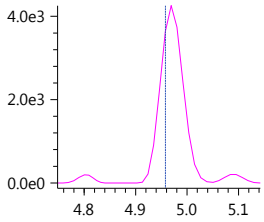
Conc 5.0000
RT 4.786 Area 5716204

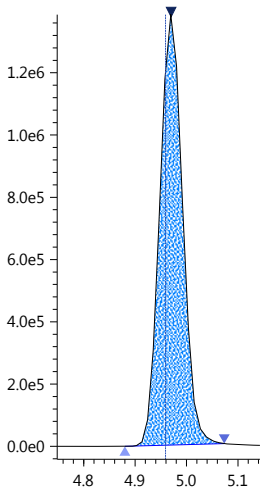
ISTD 467.80>423.00 (-) 2.03e6

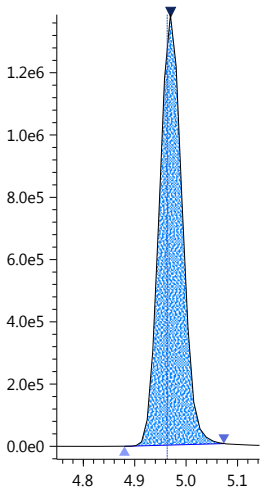


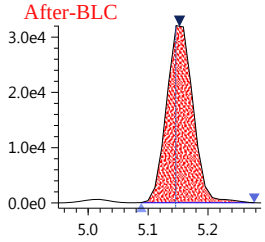
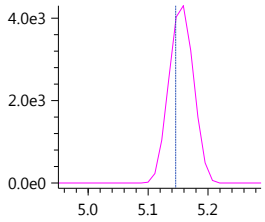
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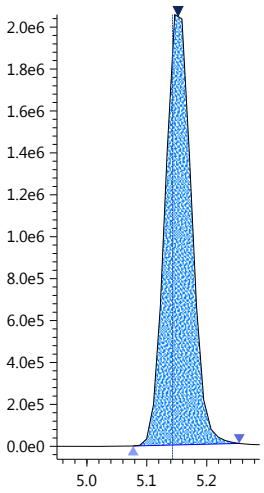
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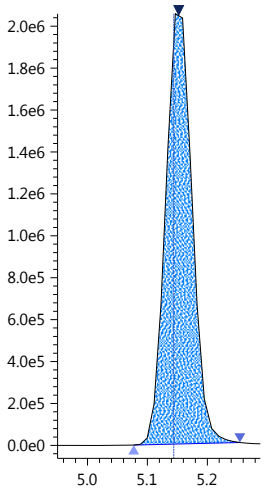
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Conc 0.1045
RT 4.971 Area 78016
R#1 17.94 (0.00)
Q 513.00>468.80 (-) 2.37e4
After-BLC

R1 513.00>219.10 (-) 4.26e3


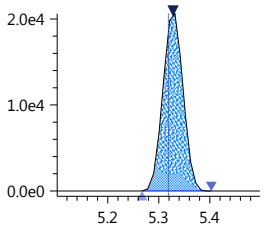
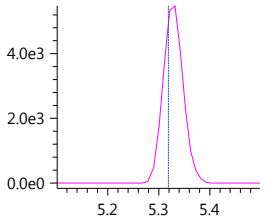
PFDA-13C
Conc 3.9099
RT 4.970 Area 4285218
Q 514.80>469.95 (-) 1.39e6


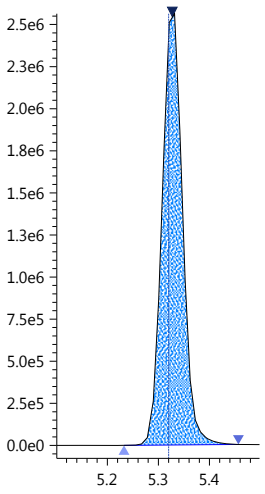
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Conc 5.0000
RT 4.970 Area 4285218
ISTD 514.80>469.95 (-) 1.39e6


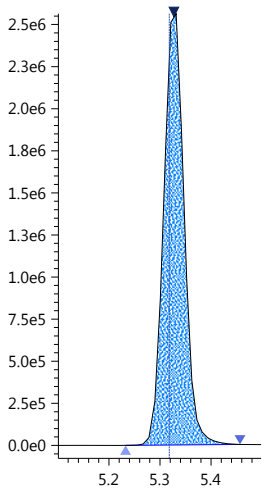
PFUnA
Conc 0.0973
RT 5.153 Area 98804
R#1 12.48 (0.00)
Q 563.00>518.90 (-) 3.21e4
After-BLC

R1 563.00>219.00 (-) 4.30e3


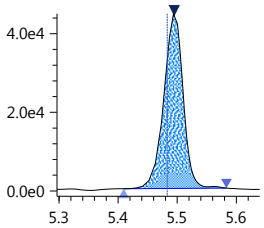
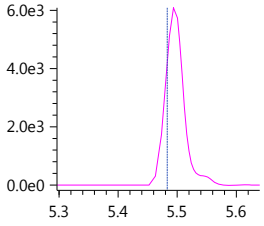
PFUnA-13C
Conc 5.1669
RT 5.152 Area 6364768
Q 564.80>519.95 (-) 2.06e6


PFUnA-13C_IS
Conc 5.0000
RT 5.152 Area 6364768
ISTD 564.80>519.95 (-) 2.06e6


PFDoA
Conc 0.1015
RT 5.328 Area 57113
R#1 26.75 (0.00)
Q 613.05>569.00 (-) 2.06e4

R1 613.05>169.00 (-) 5.48e3


PFDoA-13C
Conc 4.7922
RT 5.327 Area 7163863
Q 614.80>569.95 (-) 2.56e6


PFDoA-13C_IS
Conc 5.0000
RT 5.327 Area 7163863
ISTD 614.80>569.95 (-) 2.56e6


PFTrDA
Conc 0.1052
RT 5.495 Area 100949
R#1 13.81 (0.00)
Q 663.00>618.90 (-) 4.51e4

R1 662.90>169.00 (-) 6.09e3


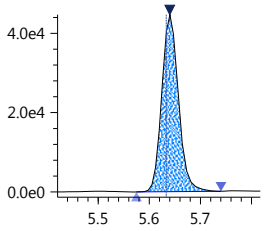
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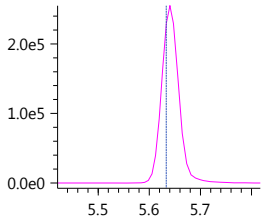
PFTeDA

Conc 0.1173
RT 5.640 Area 101294
R#1 569.66 (0.00)

Q 713.40>669.00 (-) 4.47e4



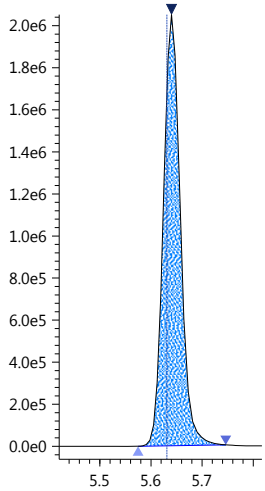
R1 713.40>169.10 (-) 2.55e5



PFTeDA-13C

Conc 4.0066
RT 5.640 Area 4754242

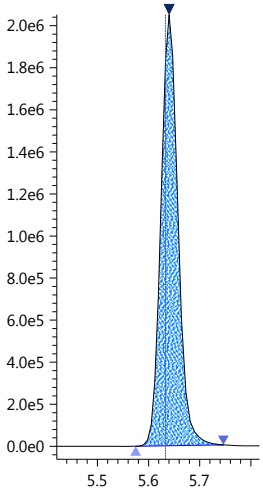
Q 714.70>669.90 (-) 2.05e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.640 Area 4754242

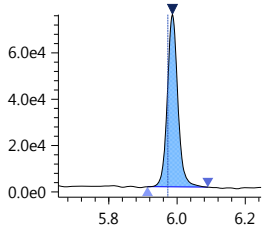
ISTD 714.70>669.90 (-) 2.05e6



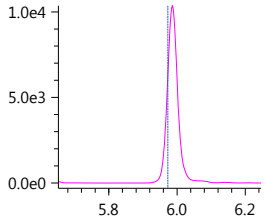
PFHxDA

Conc 0.0926
RT 5.986 Area 159748
R#1 14.36 (0.00)

Q 813.00>769.05 (-) 7.65e4



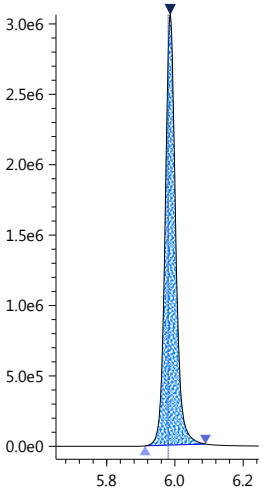
R1 813.00>218.95 (-) 1.04e4



13C-PFHxDA

Conc 4.3080
RT 5.986 Area 6533292

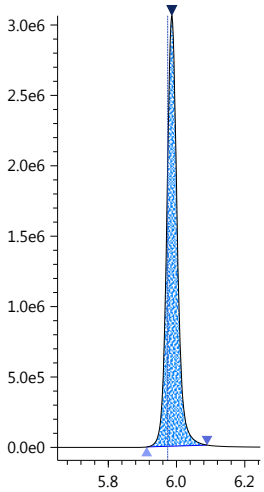
Q 815.00>770.05 (-) 3.07e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.986 Area 6533292

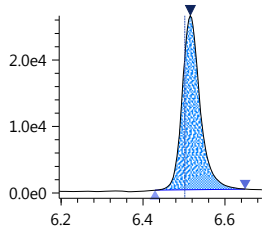
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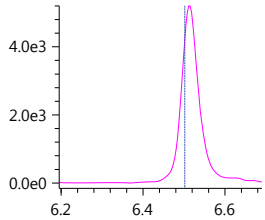
PFODA

Conc 0.1053
RT 6.515 Area 80033
R#1 19.82 (0.00)

Q 913.00>868.85 (-) 2.67e4



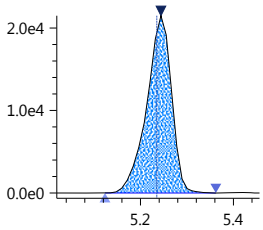
R1 913.00>169.00 (-) 5.20e3



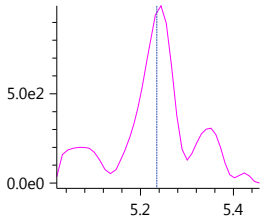
FOSA

Conc 0.1034
RT 5.244 Area 79090
R#1 3.87 (0.00)

Q 498.20>78.00 (-) 2.15e4



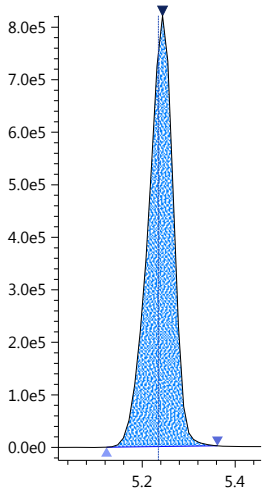
R1 498.20>64.10 (-) 9.93e2



FOSA-13C

Conc 4.7820
RT 5.244 Area 3096056

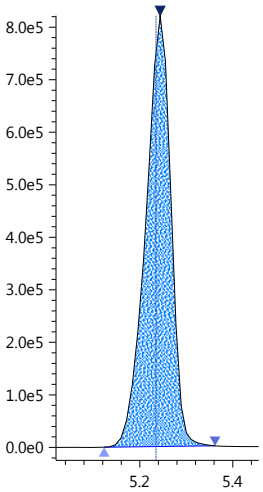
Q 506.00>78.05 (-) 8.22e5



FOSA-13C_IS

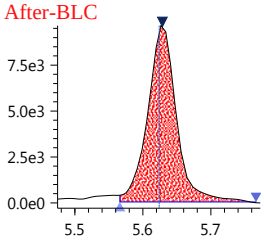
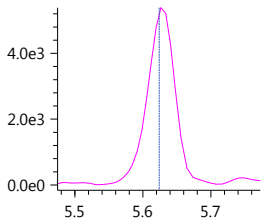
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RT 5.244 Area 3096056

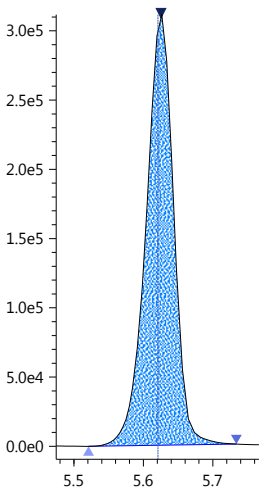
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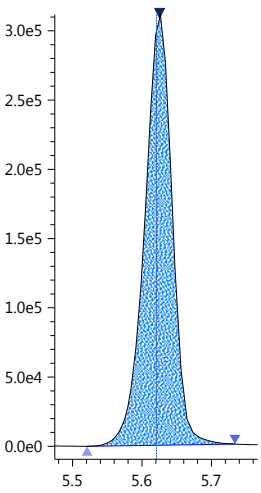


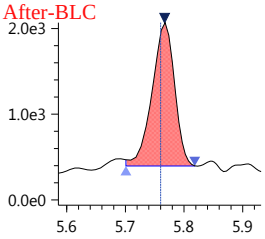
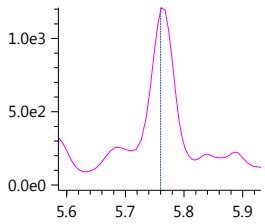
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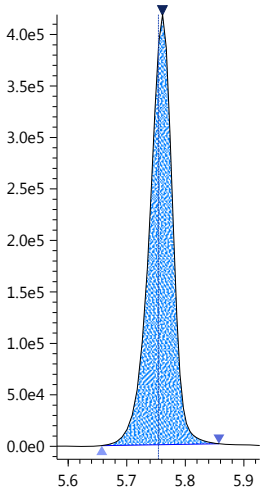
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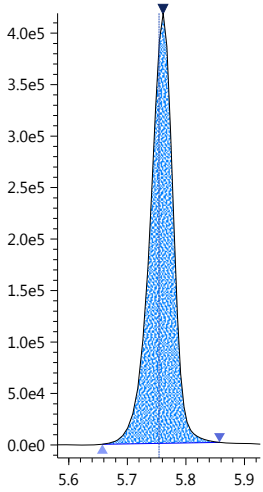
N-MeFOSA
Conc 0.1149
RT 5.629 Area 28158
R#1 55.70 (0.00)
Q 512.00>169.10 (-) 9.65e3
After-BLC

R1 512.00>219.00 (-) 5.39e3


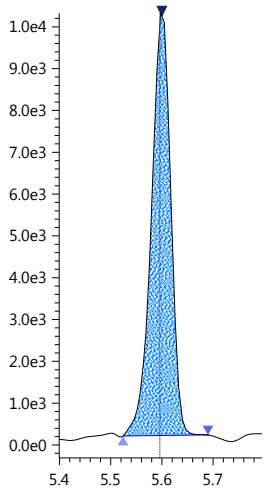
N-MeFOSA-d3
Conc 4.3555
RT 5.625 Area 861365
Q 514.90>168.90 (-) 3.12e5


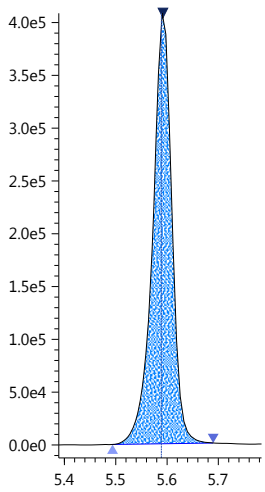
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Conc 5.0000
RT 5.625 Area 861365
ISTD 514.90>168.90 (-) 3.12e5


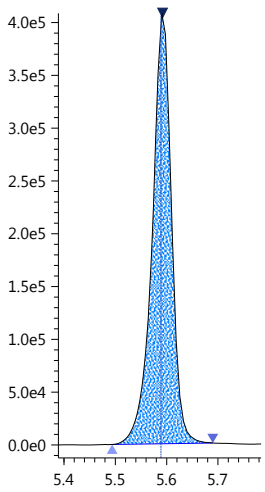
N-EtFOSA
Conc 0.1019
RT 5.767 Area 4469
R#1 60.46 (0.00)
Q 526.90>169.10 (-) 2.07e3
After-BLC

R1 526.90>219.00 (-) 1.21e3


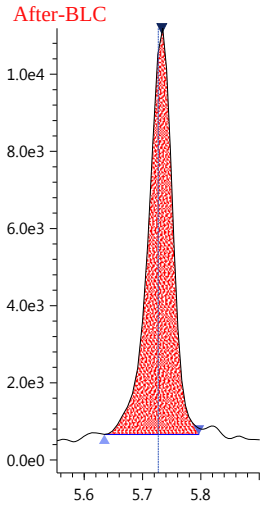
N-EtFOSA-d9
Conc 4.2601
RT 5.761 Area 1151354
Q 530.90>169.15 (-) 4.19e5


N-EtFOSA-d9_IS
Conc 5.0000
RT 5.761 Area 1151354
ISTD 530.90>169.15 (-) 4.19e5


N-MeFOSE
Conc 0.0984
RT 5.600 Area 26756
Q 616.00>59.00 (-) 1.03e4


N-MeFOSE-d7
Conc 4.4438
RT 5.592 Area 1065590
Q 622.70>59.10 (-) 4.09e5


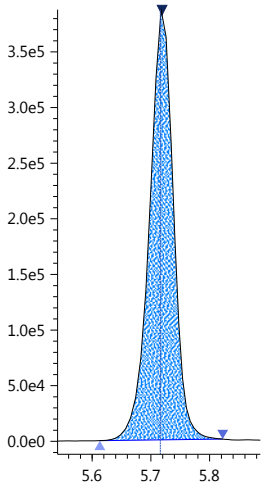
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Conc 5.0000
RT 5.592 Area 1065590
ISTD 622.70>59.10 (-) 4.09e5


N-EtFOSE
Conc 0.1067
RT 5.733 Area 30778
Q 630.00>58.90 (-) 1.12e4
After-BLC


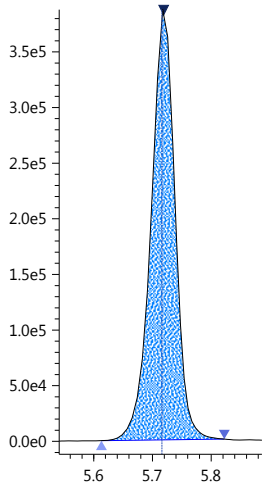
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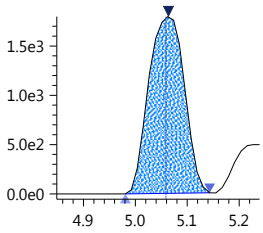
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Conc 4.5019
RT 5.719 Area 1100540
Q 638.70>59.10 (-) 3.88e5



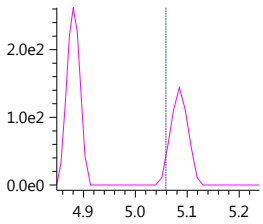
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.719 Area 1100540
ISTD 638.70>59.10 (-) 3.88e5



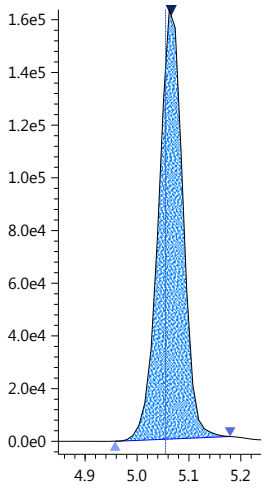
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Conc 0.1224
RT 5.064 Area 8577
R#1 3.07 (0.00)
Q 570.20>419.00 (-) 1.80e3



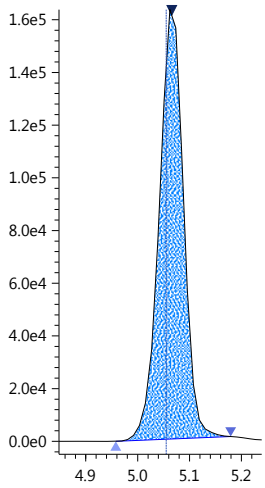
R1 570.20>512.00 (-) 2.62e2



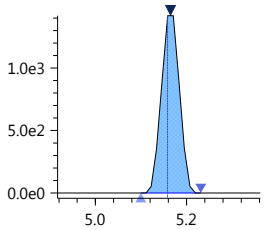
N-MeFOSAA-d3
Conc 4.4147
RT 5.066 Area 533977
Q 572.80>419.05 (-) 1.64e5



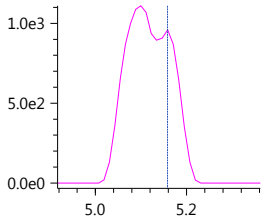
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.066 Area 533977
ISTD 572.80>419.05 (-) 1.64e5



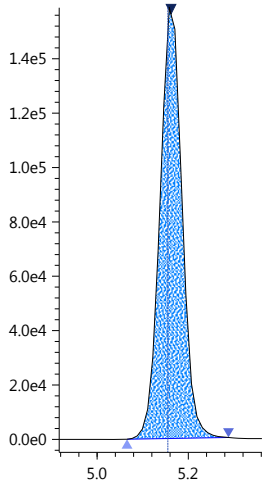
N-EtFOSAA
Conc 0.0795
RT 5.165 Area 3997
R#1 23.92 (0.00)
Q 584.20>418.95 (-) 1.42e3



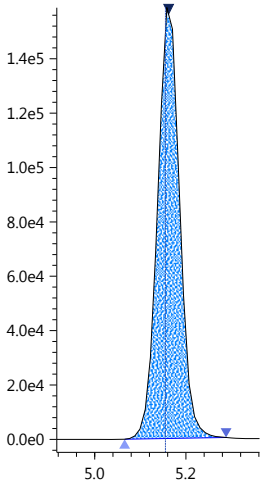
R1 584.20>526.10 (-) 1.11e3



N-EtFOSAA-d5
Conc 4.8521
RT 5.162 Area 535879
Q 588.80>419.00 (-) 1.59e5

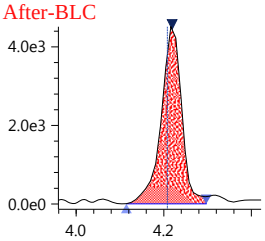


N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.162 Area 535879
ISTD 588.80>419.00 (-) 1.59e5

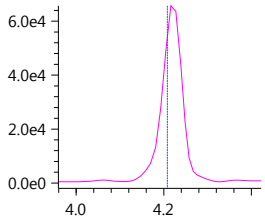


4_2-FTS_1
Conc 0.1110
RT 4.219 Area 14739
R#1 1461.99 (0.00)
Q 327.00>307.05 (-) 4.51e3

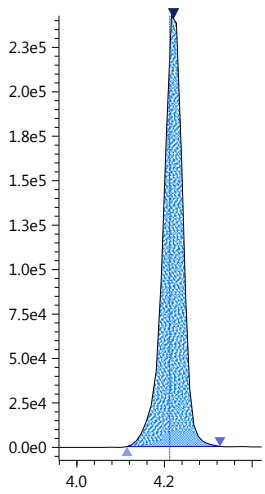
After-BLC



R1 327.00>81.10 (-) 6.57e4



4_2-FTS-13C
Conc 5.5765
RT 4.221 Area 764152
Q 328.80>309.05 (-) 2.43e5

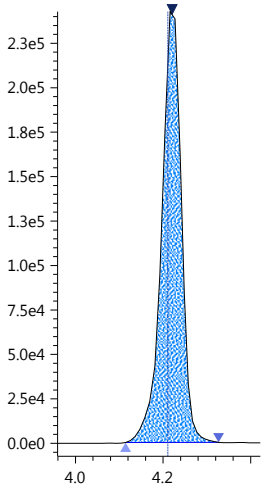


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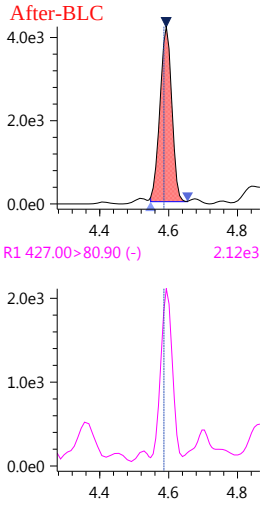
4_2-FTS-13C_IS
Conc 5.0000
RT 4.221 Area 764152

ISTD 328.80>309.05 (-) 2.43e5



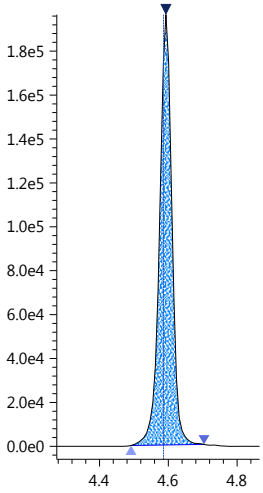
6_2-FTS_1
Conc 0.0969
RT 4.593 Area 10024
R#1 47.77 (0.00)

Q 427.00>407.00 (-) 4.26e3



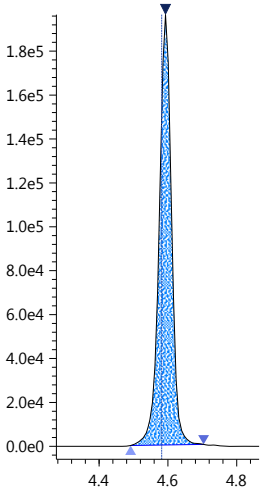
6_2-FTS-13C
Conc 4.2409
RT 4.593 Area 490639

Q 428.90>409.00 (-) 1.97e5



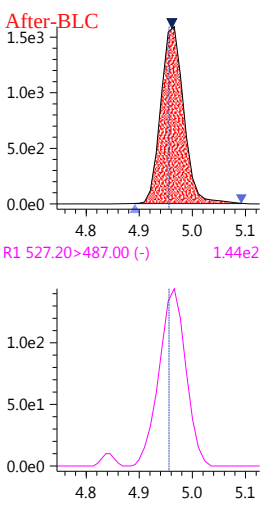
6_2-FTS-13C_IS
Conc 5.0000
RT 4.593 Area 490639

ISTD 428.90>409.00 (-) 1.97e5



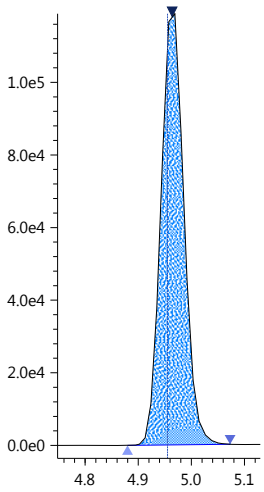
8_2-FTS_1
Conc 0.0942
RT 4.961 Area 4777
R#1 8.87 (0.00)

Q 527.10>506.90 (-) 1.60e3



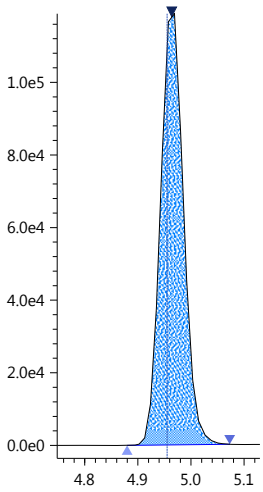
8_2-FTS-13C
Conc 4.7628
RT 4.964 Area 359973

Q 528.80>509.00 (-) 1.19e5



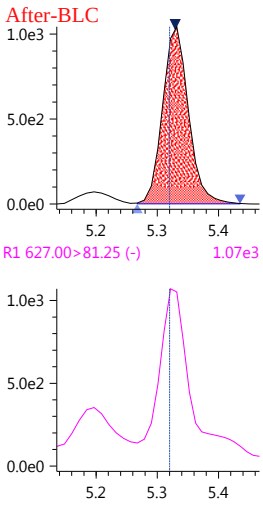
8_2-FTS-13C_IS
Conc 5.0000
RT 4.964 Area 359973

ISTD 528.80>509.00 (-) 1.19e5



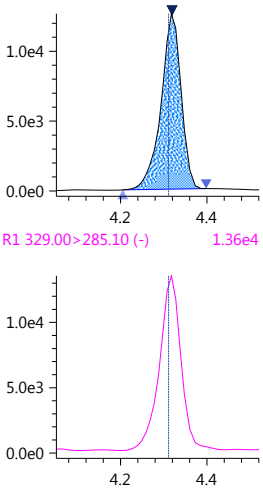
10_2-FtS_1
Conc 0.0980
RT 5.329 Area 3054
R#1 88.22 (0.00)

Q 627.00>606.95 (-) 1.04e3



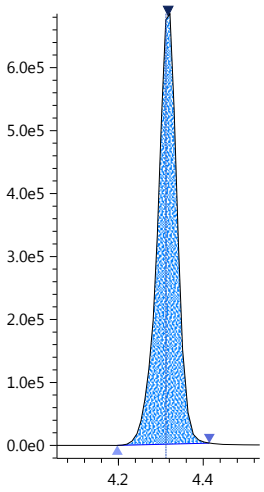
HPFO_DA
Conc 0.0996
RT 4.319 Area 40345
R#1 105.68 (0.00)

Q 329.00>169.00 (-) 1.27e4



HFPO_DA-13C
Conc 4.4957
RT 4.317 Area 2245046

Q 332.00>286.80 (-) 6.86e5



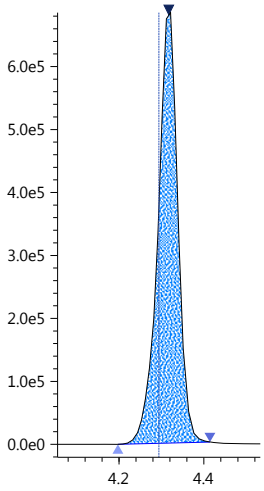
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.317 Area 2245046

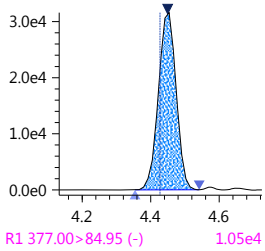
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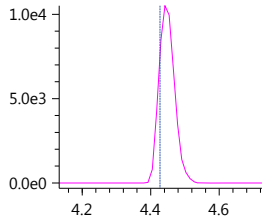
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Conc 0.0911
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R#1 31.12 (0.00)

Q 377.00>251.00 (-) 3.16e4



R1 377.00>84.95 (-) 1.05e4



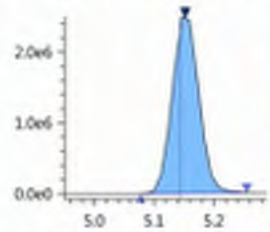
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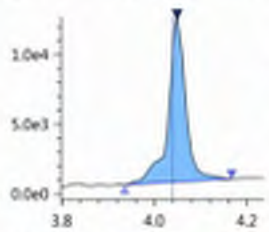
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Date acquired: 9/17/2019 4:02:25 PM
Acquired by: System Administrator
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Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

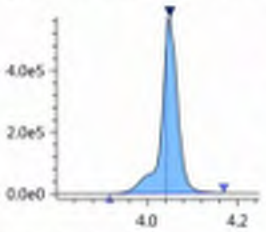
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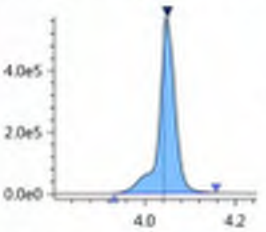
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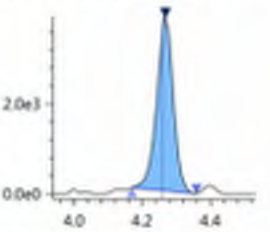
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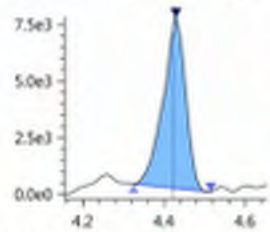
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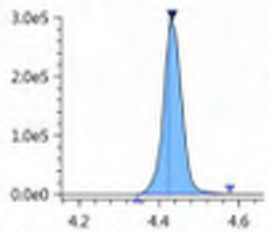
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Conc 0.0832
RT 4.268 Area 13093
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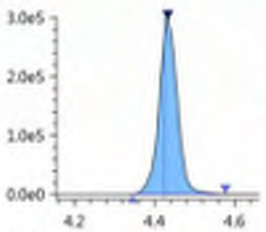
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Conc 0.1131
RT 4.429 Area 29145
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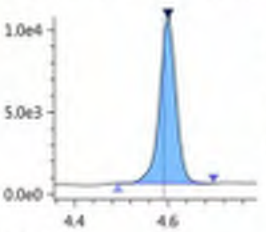
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Q 402.70>84.05 (-) 3.01e5



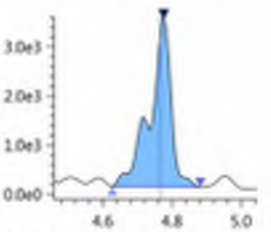
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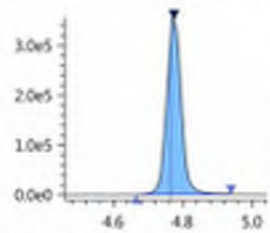
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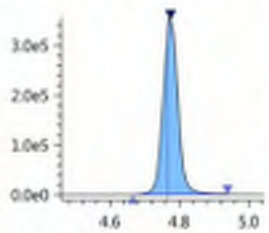
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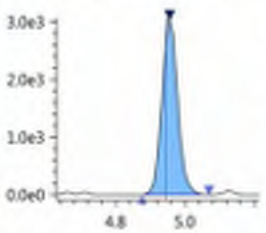
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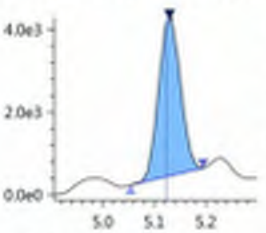
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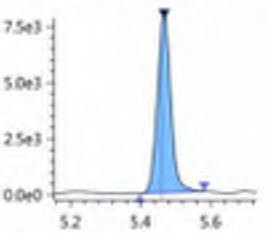
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Conc 0.0869
RT 4.956 Area 9602
Q 549.00>99.00 (-) 3.08e3



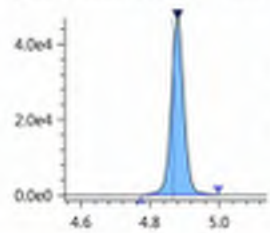
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RT 5.129 Area 11391
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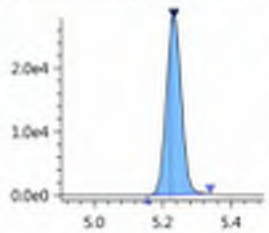
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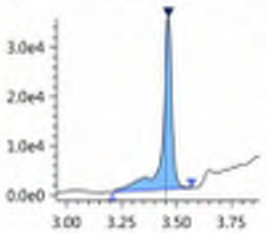
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RT 4.880 Area 119603
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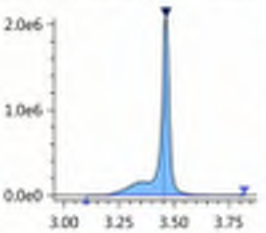
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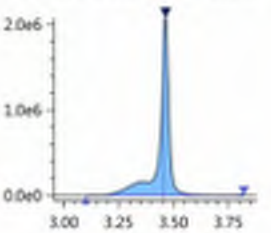
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Conc 0.1073
RT 3.464 Area 101565
Q 213.00>169.10 (-) 3.59e4



PFBA-13C
Conc 4.4240
RT 3.463 Area 6296066
Q 216.90>172.15 (-) 2.08e6



PFBA-13C_IS
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RT 3.463 Area 6296066
ISTD 216.90>172.15 (-) 2.08e6

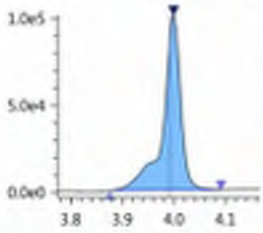


Manual Integration - Before

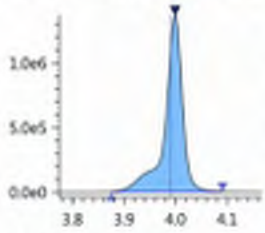
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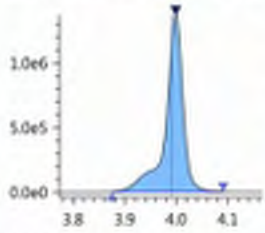
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Q 263.05>219.10 (-) 1.02e5



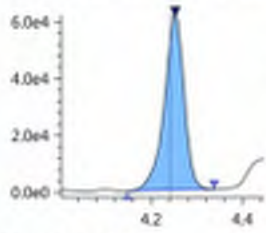
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Conc 4.4422
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Q 267.90>223.00 (-) 1.37e6



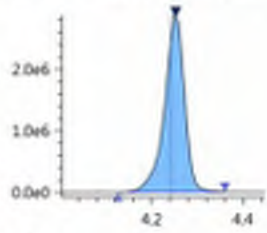
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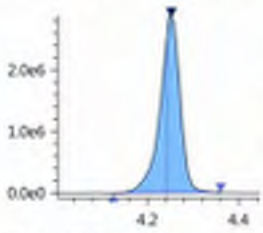
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RT 4.252 Area 187263
Q 313.00>269.00 (-) 6.24e4



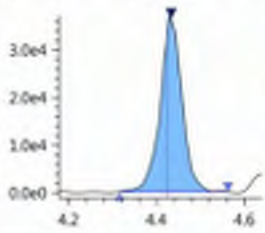
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RT 4.252 Area 8735731
Q 314.90>270.10 (-) 2.88e6



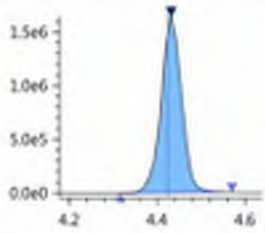
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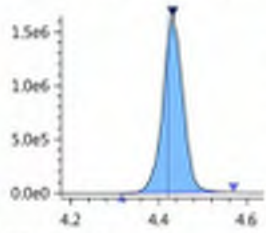
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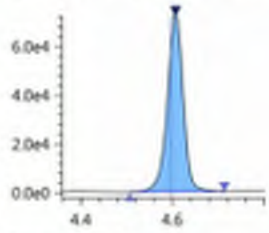
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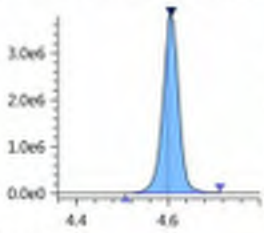
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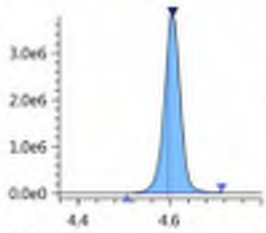
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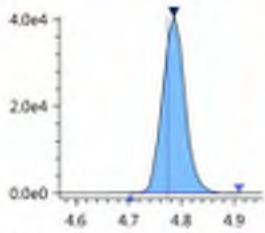
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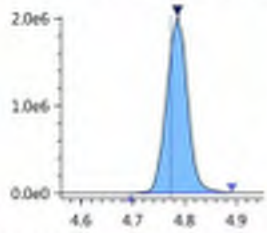
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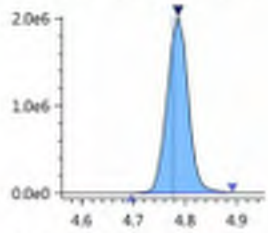
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Q 463.00>418.90 (-) 4.08e4



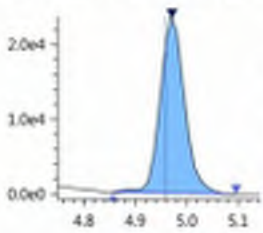
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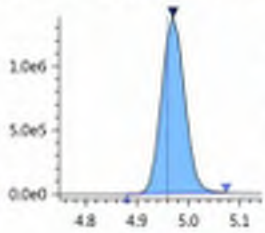
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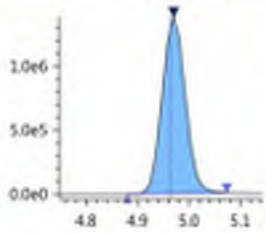
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Conc 0.1104
RT 4.971 Area 77871
Q 513.00>468.80 (-) 2.37e4



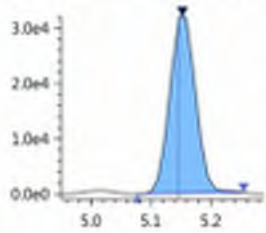
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Q 514.80>469.95 (-) 1.39e6



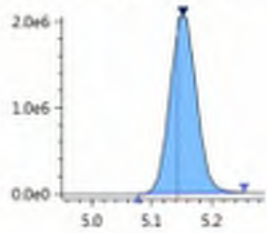
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Conc 5.0000
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ISTD 514.80>469.95 (-) 1.39e6



PFUnA
Conc 0.1072
RT 5.153 Area 97511
Q 563.00>518.90 (-) 3.21e4



PFUnA-13C
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Q 564.80>519.95 (-) 2.06e6

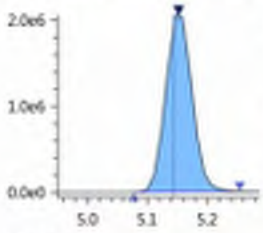


Manual Integration - Before

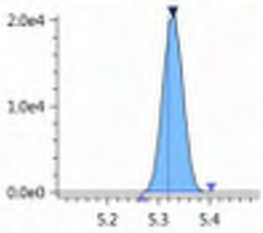
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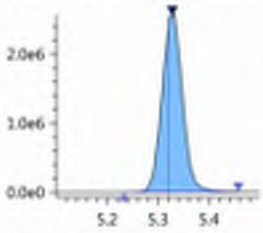
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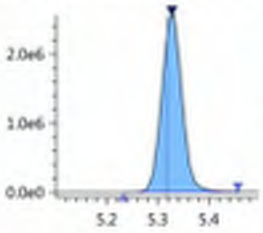
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Q 613.05>569.00 (-) 2.06e4



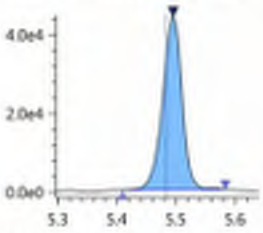
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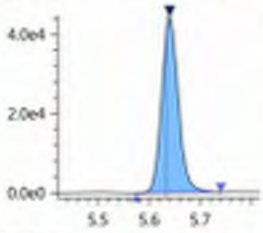
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Conc 5.0000
RT 5.327 Area 7163863
ISTD 614.80>569.95 (-) 2.56e6



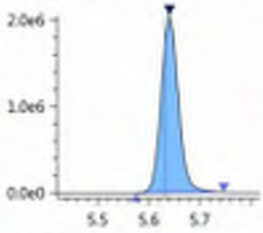
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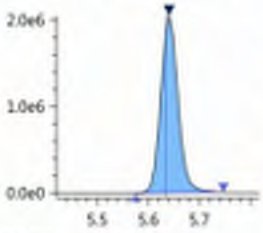
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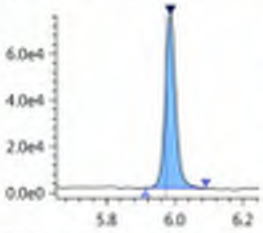
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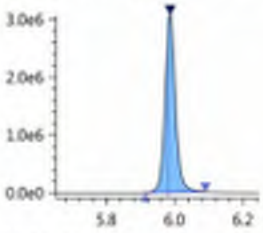
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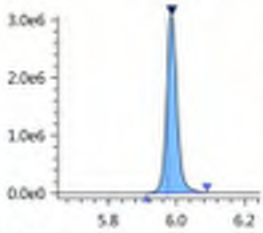
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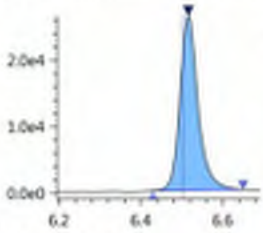
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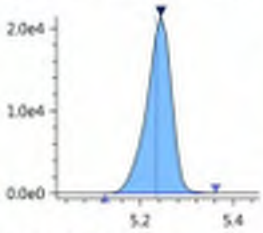
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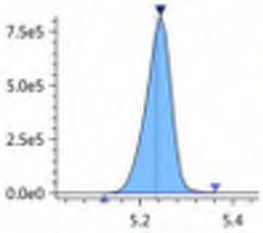
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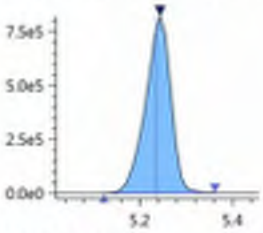
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Q 498.20>78.00 (-) 2.15e4



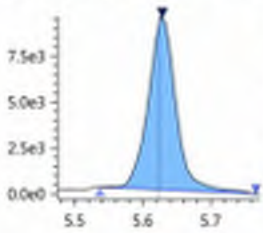
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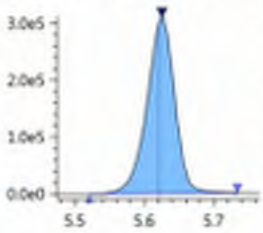
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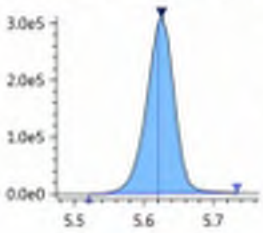
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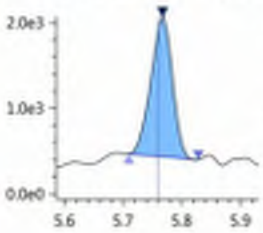
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Q 514.90>168.90 (-) 3.12e5



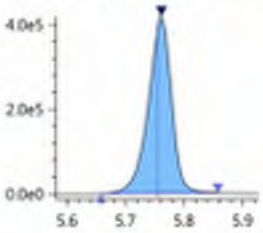
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Q 526.90>169.10 (-) 2.07e3



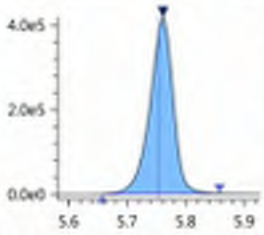
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Q 530.90>169.15 (-) 4.19e5



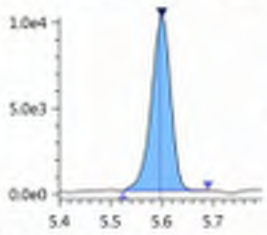
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Printed at 9/18/2019 8:09:22 AM

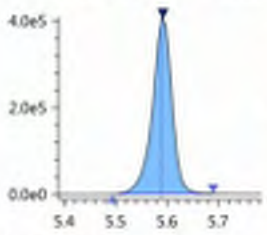
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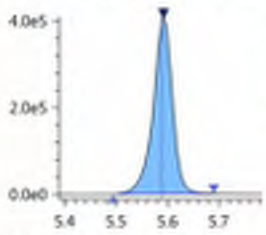
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Q 616.00>59.00 (-) 1.03e4



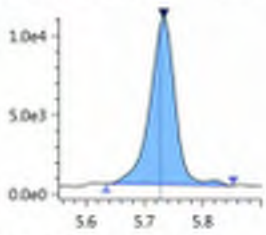
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Q 622.70>59.10 (-) 4.09e5



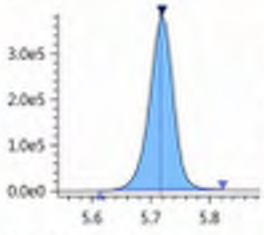
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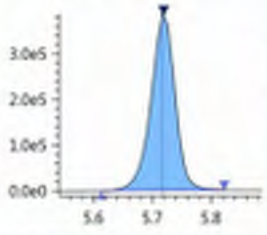
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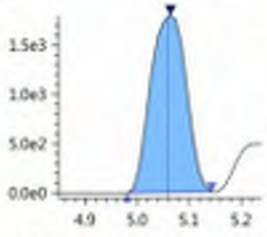
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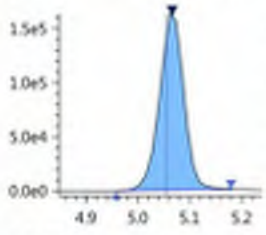
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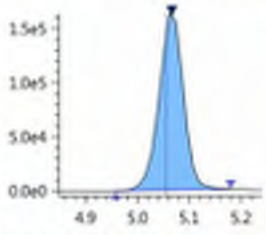
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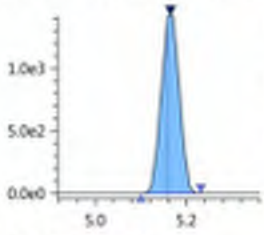
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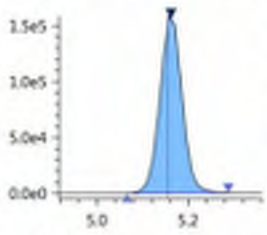
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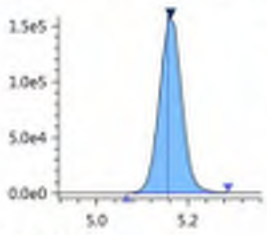
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Q 584.20>418.95 (-) 1.42e3



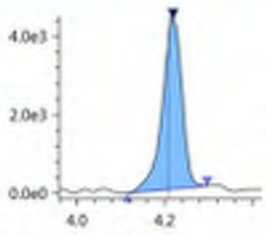
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Q 588.80>419.00 (-) 1.59e5



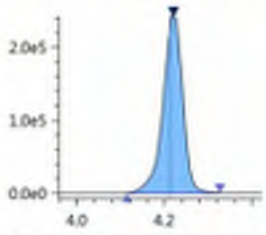
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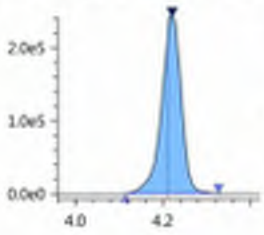
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RT 4.219 Area 13727
Q 327.00>307.05 (-) 4.51e3



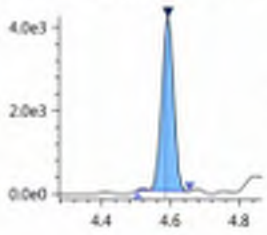
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Q 328.80>309.05 (-) 2.43e5



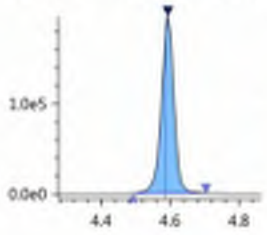
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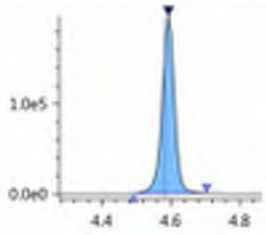
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Q 427.00>407.00 (-) 4.26e3



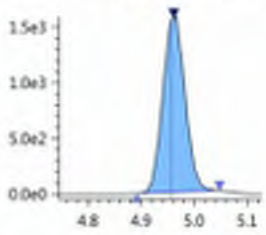
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Conc 4.2409
RT 4.593 Area 490639
Q 428.90>409.00 (-) 1.97e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.593 Area 490639
ISTD 428.90>409.00 (-) 1.97e5



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RT 4.961 Area 4588
Q 527.10>506.90 (-) 1.60e3

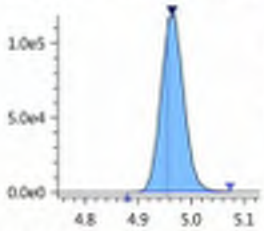


Manual Integration - Before

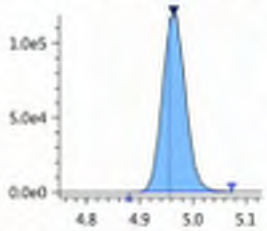
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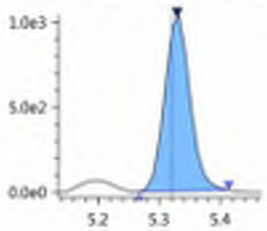
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Conc 4.7628
RT 4.964 Area 359973
Q 528.80>509.00 (-) 1.19e5



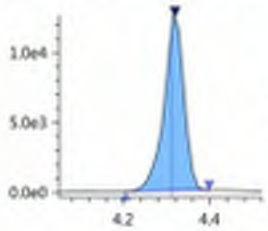
8_2-FTS-13C_IS
Conc 5.0000
RT 4.964 Area 359973
ISTD 528.80>509.00 (-) 1.19e5



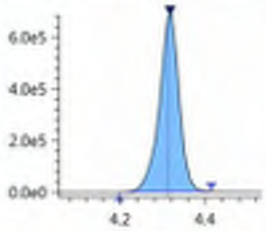
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Q 627.00>606.95 (-) 1.04e3



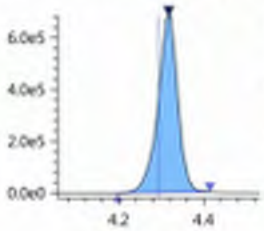
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Q 329.00>169.00 (-) 1.27e4



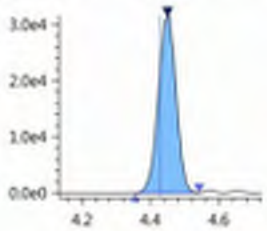
HFPO_DA-13C
Conc 3.9763
RT 4.317 Area 2245046
Q 332.00>286.80 (-) 6.86e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.317 Area 2245046
ISTD 332.00>286.80 (-) 6.86e5



ADONA
Conc 0.0918
RT 4.449 Area 113699
Q 377.00>251.00 (-) 3.16e4



Insight Report

Printed at 9/18/2019 9:25:42 AM

190917_008

Sample ID: 0.50 PPB ICAL
Date acquired: 9/17/2019 4:12:53 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_008.lcd
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.145	6513210	6513210	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.044	130601	1541520	2	0.4174	ng/mL	0.4437
PFBS-13C	Auto	4.046	1568506	6513210	1	5.1812	ng/mL	5.0000
PFBS-13C_IS	Auto	4.046	1541520	1541520	2	5.0000	ng/mL	5.0000
PFPeS	M	4.263	92570	1541520	2	0.5717	ng/mL	0.4705
PFHxS_1	M	4.418	88146	714770	3	0.4868	ng/mL	0.4565
PFHxS-18O	Auto	4.426	714770	6513210	1	4.7704	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.426	714770	714770	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.595	121833	714770	3	0.5532	ng/mL	0.4767
PFOS_1	Auto	4.768	81846	1312520	4	0.4545	ng/mL	0.4646
PFOS-13C	Auto	4.768	1312520	6513210	1	6.0102	ng/mL	5.0000
PFOS-13C_IS	Auto	4.768	1312520	1312520	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.949	67016	1312520	4	0.4828	ng/mL	0.4808
PFDS_1	M	5.128	81889	1312520	4	0.4542	ng/mL	0.4823
PFDOS	Auto	5.462	85233	1312520	4	0.3878	ng/mL	0.4848
9Cl-PF3ONS	Auto	4.874	549341	2719851	26	0.3932	ng/mL	0.4666
11Cl-PF3OUdS	Auto	5.225	333606	2719851	26	0.3479	ng/mL	0.4716
PFBA	Auto	3.460	487511	6344009	5	0.4974	ng/mL	0.5000
PFBA-13C	Auto	3.459	6344009	6513210	1	5.3685	ng/mL	5.0000
PFBA-13C_IS	Auto	3.459	6344009	6344009	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.996	674859	3210434	6	0.4811	ng/mL	0.5000
PFPeA-13C	Auto	3.995	3210434	6513210	1	5.3476	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.995	3210434	3210434	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.247	717047	7040853	7	0.5120	ng/mL	0.5000
PFHxA-13C	Auto	4.247	7040853	6513210	1	4.8655	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.247	7040853	7040853	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.425	506183	5155623	8	0.4858	ng/mL	0.5000
PFHpA-13C	Auto	4.425	5155623	6513210	1	5.2677	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.425	5155623	5155623	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.601	735187	8694797	9	0.4910	ng/mL	0.5000
PFOA-13C	Auto	4.601	8694797	6513210	1	5.5143	ng/mL	5.0000
PFOA-13C_IS	Auto	4.601	8694797	8694797	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.780	597781	6684663	10	0.5259	ng/mL	0.5000
PFNA-13C	Auto	4.780	6684663	6513210	1	6.0198	ng/mL	5.0000
PFNA-13C_IS	Auto	4.780	6684663	6684663	10	5.0000	ng/mL	5.0000
PFDA	M	4.964	472794	5670660	11	0.5229	ng/mL	0.5000
PFDA-13C	Auto	4.964	5670660	6513210	1	6.1734	ng/mL	5.0000
PFDA-13C_IS	Auto	4.964	5670660	5670660	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.146	311494	5010031	12	0.4561	ng/mL	0.5000
PFUnA-13C	Auto	5.145	5010031	6513210	1	4.8527	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.145	5010031	5010031	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.321	293952	6034377	13	0.4955	ng/mL	0.5000
PFDoA-13C	Auto	5.321	6034377	6513210	1	4.8163	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.321	6034377	6034377	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.488	528183	5490686	14	0.4916	ng/mL	0.5000
PFTeDA	Auto	5.636	296636	5490686	14	0.5252	ng/mL	0.5000
PFTeDA-13C	Auto	5.636	5490686	6513210	1	5.5210	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.636	5490686	5490686	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.981	592194	6879328	15	0.5001	ng/mL	0.5000
13C-PFHxDA	Auto	5.981	6879328	6513210	1	5.4124	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.981	6879328	6879328	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.510	383399	6879328	15	0.4789	ng/mL	0.5000
FOSA	Auto	5.235	333439	2832128	16	0.4764	ng/mL	0.5000
FOSA-13C	Auto	5.235	2832128	6513210	1	5.2194	ng/mL	5.0000
FOSA-13C_IS	Auto	5.235	2832128	2832128	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.622	122104	899724	17	0.4768	ng/mL	0.5000
N-MeFOSA-d3	Auto	5.621	899724	6513210	1	5.4283	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.621	899724	899724	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.762	23001	1233777	18	0.4896	ng/mL	0.5000
N-EtFOSA-d9	Auto	5.757	1233777	6513210	1	5.4469	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.757	1233777	1233777	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.595	137393	1065138	19	0.5053	ng/mL	0.5000
N-MeFOSE-d7	Auto	5.588	1065138	6513210	1	5.3000	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.588	1065138	1065138	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.727	151456	1078755	20	0.5356	ng/mL	0.5000
N-EtFOSE-d9	Auto	5.716	1078755	6513210	1	5.2652	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.716	1078755	1078755	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.064	32966	529106	21	0.4748	ng/mL	0.5000

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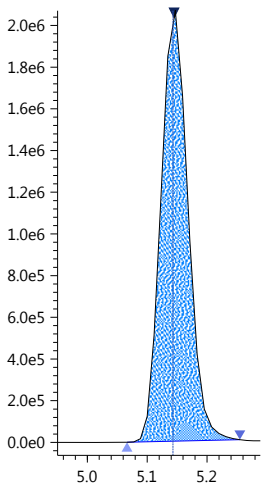
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.060	529106	6513210	1	5.2194	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.060	529106	529106	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.159	25293	451974	22	0.5967	ng/mL	0.5000
N-EtFOSAA-d5	Auto	5.155	451974	6513210	1	4.8829	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.155	451974	451974	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.217	45187	588860	23	0.4415	ng/mL	0.4686
4_2-FTS-13C	Auto	4.218	588860	6513210	1	5.1274	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.218	588860	588860	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.589	57366	576965	24	0.4714	ng/mL	0.4756
6_2-FTS-13C	Auto	4.588	576965	6513210	1	5.9504	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.588	576965	576965	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.959	24634	308281	25	0.5673	ng/mL	0.4800
8_2-FTS-13C	Auto	4.958	308281	6513210	1	4.8668	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.958	308281	308281	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.323	12753	308281	25	0.4780	ng/mL	0.4831
HPFO_DA	Auto	4.313	202491	2719851	26	0.4126	ng/mL	0.5000
HFPO_DA-13C	Auto	4.314	2719851	6513210	1	6.4985	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.314	2719851	2719851	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.445	705168	2719851	26	0.4666	ng/mL	0.4725

13C7-PFUnDA_IS

Conc 5.0000
RT 5.145 Area 6513210

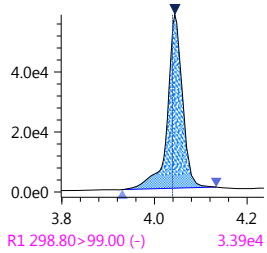
ISTD 570.00>525.00 (-) 2.07e6



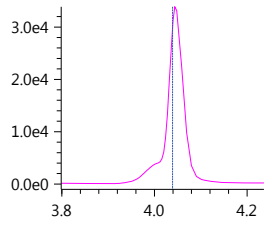
PFBS_1

Conc 0.4174
RT 4.044 Area 130601
R#1 59.04 (0.00)

Q 299.00>80.00 (-) 5.91e4



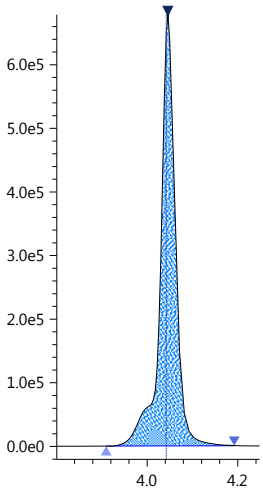
R1 298.80>99.00 (-) 3.39e4



PFBS-13C

Conc 5.1812
RT 4.046 Area 1568506

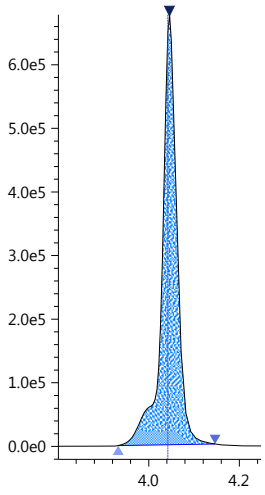
Q 301.80>80.00 (-) 6.79e5



PFBS-13C_IS

Conc 5.0000
RT 4.046 Area 1541520

ISTD 301.80>80.00 (-) 6.79e5

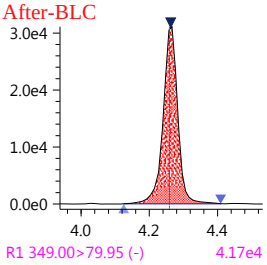


PFPeS

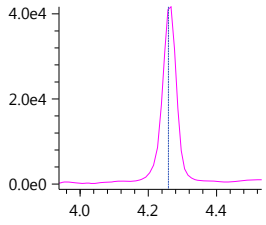
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RT 4.263 Area 92570
R#1 132.46 (0.00)

Q 349.00>99.00 (-) 3.11e4

After-BLC

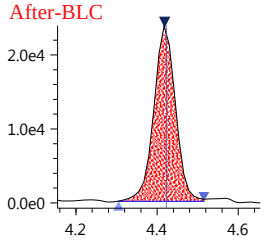
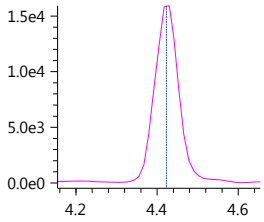


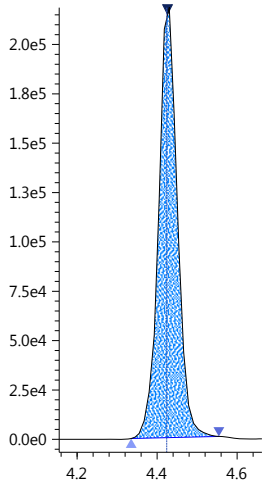
R1 349.00>79.95 (-) 4.17e4

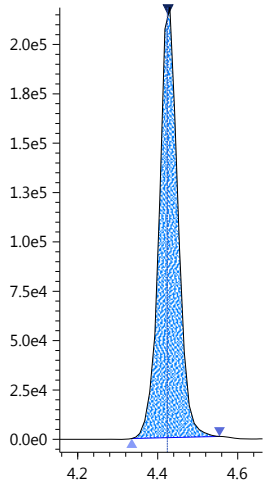


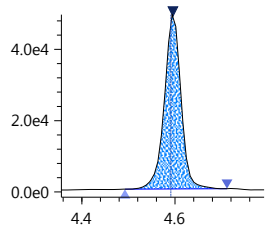
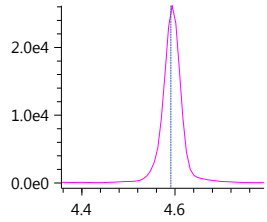
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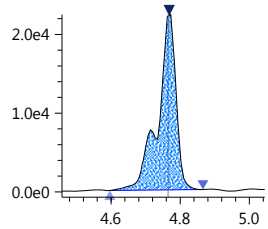
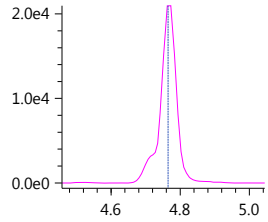
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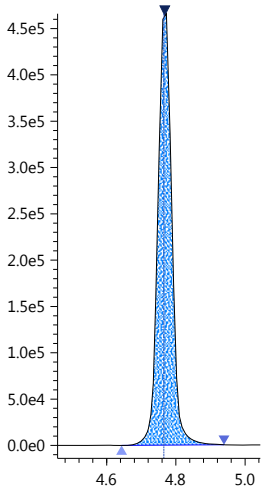
PFHxS_1
Conc 0.4868
RT 4.418 Area 88146
R#1 66.58 (0.00)
Q 399.00>80.00 (-) 2.40e4
After-BLC

R1 399.00>99.00 (-) 1.59e4


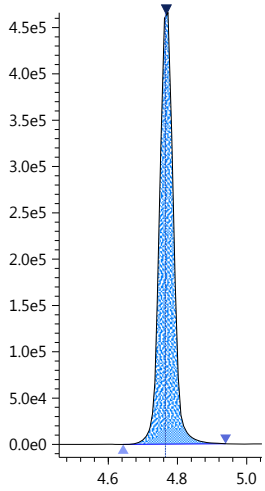
PFHxS-18O
Conc 4.7704
RT 4.426 Area 714770
Q 402.70>84.05 (-) 2.19e5


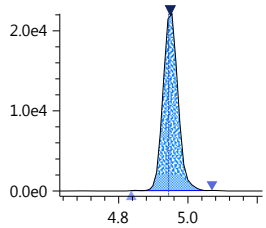
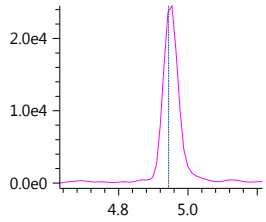
PFHxS-18O_IS
Conc 5.0000
RT 4.426 Area 714770
ISTD 402.70>84.05 (-) 2.19e5


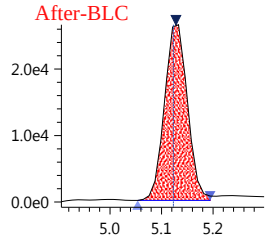
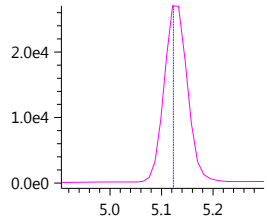
PFHpS_1
Conc 0.5532
RT 4.595 Area 121833
R#1 53.21 (0.00)
Q 449.00>80.15 (-) 4.98e4

R1 449.00>99.20 (-) 2.62e4


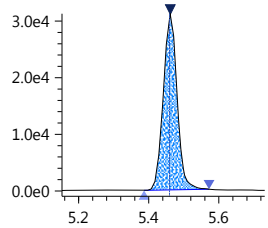
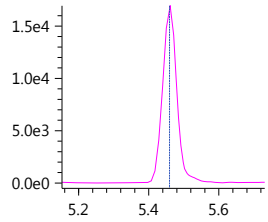
PFOS_1
Conc 0.4545
RT 4.768 Area 81846
R#1 94.73 (0.00)
Q 499.00>80.00 (-) 2.25e4

R1 499.00>99.00 (-) 2.10e4


PFOS-13C
Conc 6.0102
RT 4.768 Area 1312520
Q 502.80>80.05 (-) 4.66e5


PFOS-13C_IS
Conc 5.0000
RT 4.768 Area 1312520
ISTD 502.80>80.05 (-) 4.66e5


PFNS
Conc 0.4828
RT 4.949 Area 67016
R#1 109.71 (0.00)
Q 549.00>99.00 (-) 2.21e4

R1 549.00>79.95 (-) 2.45e4


PFDS_1
Conc 0.4542
RT 5.128 Area 81889
R#1 101.51 (0.00)
Q 599.00>79.90 (-) 2.67e4
After-BLC

R1 599.00>99.10 (-) 2.71e4


PFDOS
Conc 0.3878
RT 5.462 Area 85233
R#1 54.43 (0.00)
Q 699.00>79.95 (-) 3.13e4

R1 699.00>99.05 (-) 1.69e4


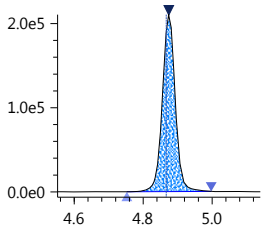
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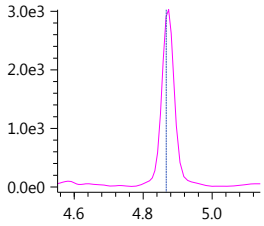
9Cl-PF3ONS

Conc 0.3932
RT 4.874 Area 549341
R#1 1.44 (0.00)

Q 531.00>351.00 (-) 2.11e5



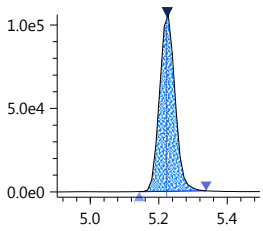
R1 531.00>98.90 (-) 3.03e3



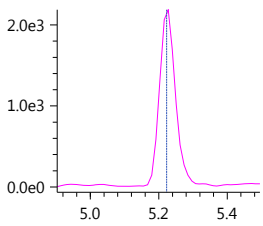
11Cl-PF3OUdS

Conc 0.3479
RT 5.225 Area 333606
R#1 2.06 (0.00)

Q 631.00>451.05 (-) 1.06e5



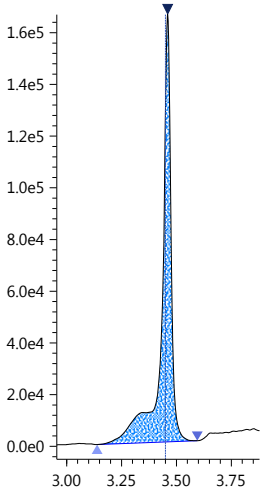
R1 631.00>98.90 (-) 2.19e3



PFBA

Conc 0.4974
RT 3.460 Area 487511

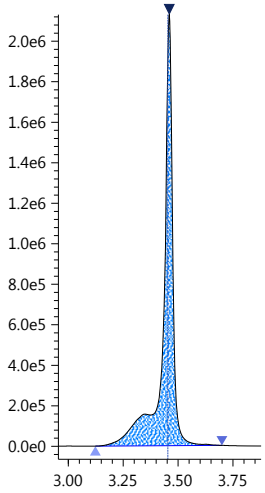
Q 213.00>169.10 (-) 1.67e5



PFBA-13C

Conc 5.3685
RT 3.459 Area 6344009

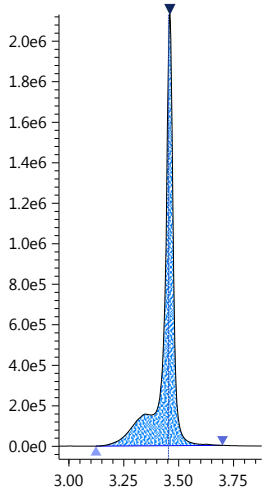
Q 216.90>172.15 (-) 2.13e6



PFBA-13C_IS

Conc 5.0000
RT 3.459 Area 6344009

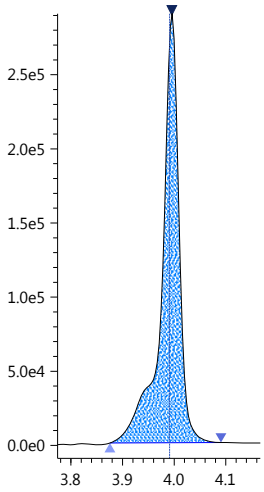
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PFPeA

Conc 0.4811
RT 3.996 Area 674859

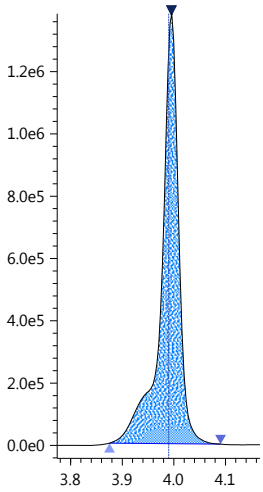
Q 263.05>219.10 (-) 2.91e5



PFPeA-13C

Conc 5.3476
RT 3.995 Area 3210434

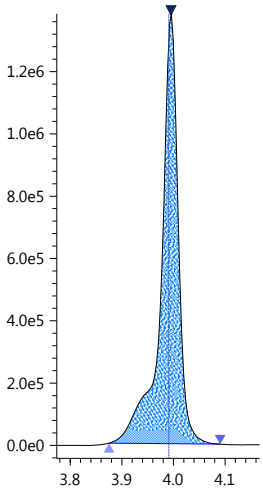
Q 267.90>223.00 (-) 1.39e6



PFPeA-13C_IS

Conc 5.0000
RT 3.995 Area 3210434

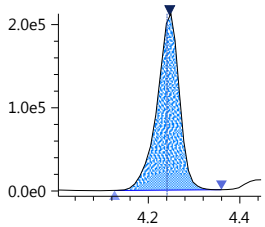
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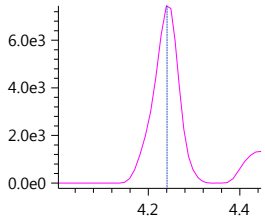
PFHxA

Conc 0.5120
RT 4.247 Area 717047
R#1 3.78 (0.00)

Q 313.00>269.00 (-) 2.13e5



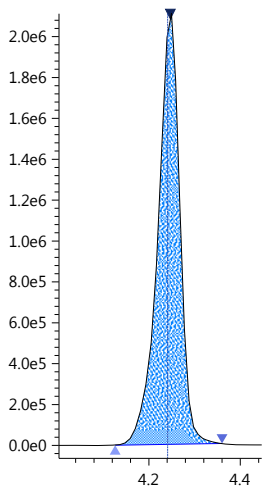
R1 313.00>119.10 (-) 7.45e3



PFHxA-13C

Conc 4.8655
RT 4.247 Area 7040853

Q 314.90>270.10 (-) 2.11e6



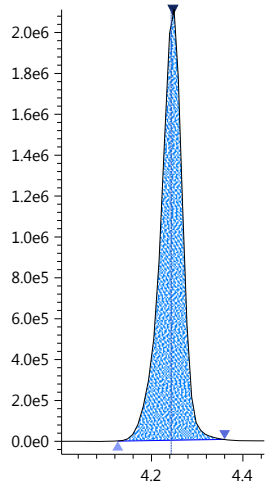
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PFHxA-13C_IS

Conc 5.0000
RT 4.247 Area 7040853

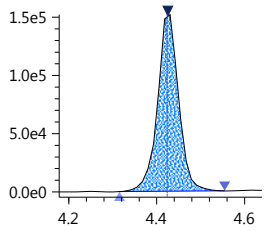
ISTD 314.90>270.10 (-) 2.11e6



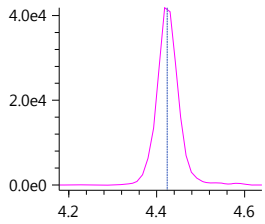
PFHpA

Conc 0.4858
RT 4.425 Area 506183
R#1 27.04 (0.00)

Q 362.90>319.00 (-) 1.52e5



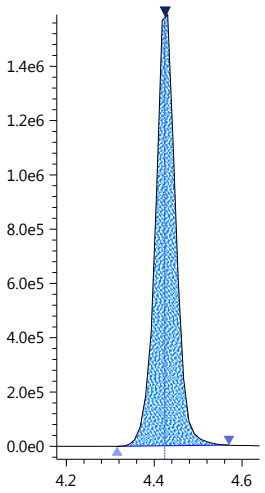
R1 362.90>169.00 (-) 4.18e4



PFHpA-13C

Conc 5.2677
RT 4.425 Area 5155623

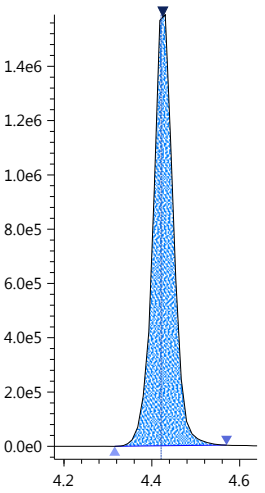
Q 366.90>322.10 (-) 1.59e6



PFHpA-13C_IS

Conc 5.0000
RT 4.425 Area 5155623

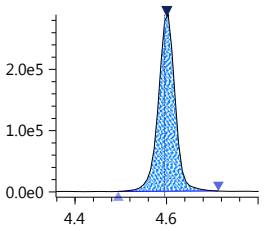
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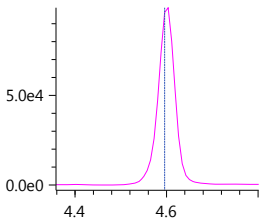
PFOA

Conc 0.4910
RT 4.601 Area 735187
R#1 34.20 (0.00)

Q 413.00>369.00 (-) 2.89e5



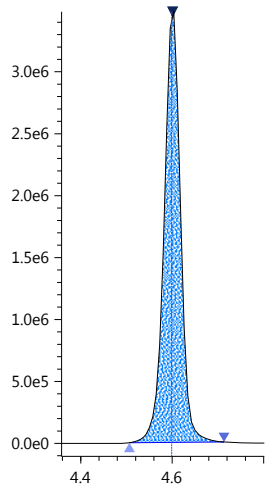
R1 413.00>169.10 (-) 9.89e4



PFOA-13C

Conc 5.5143
RT 4.601 Area 8694797

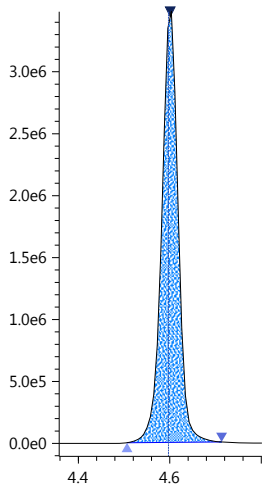
Q 416.80>372.05 (-) 3.49e6



PFOA-13C_IS

Conc 5.0000
RT 4.601 Area 8694797

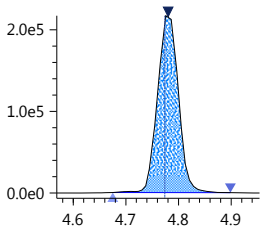
ISTD 416.80>372.05 (-) 3.49e6



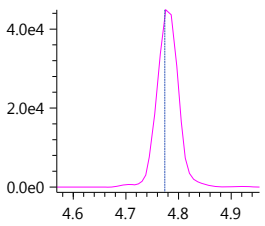
PFNA

Conc 0.5259
RT 4.780 Area 597781
R#1 20.57 (0.00)

Q 463.00>418.90 (-) 2.17e5



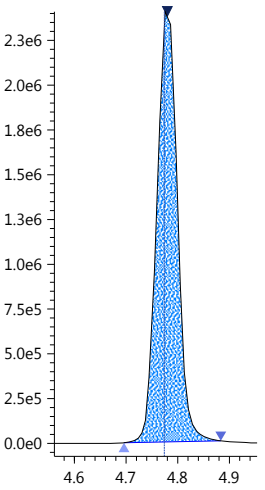
R1 463.00>219.00 (-) 4.49e4



PFNA-13C

Conc 6.0198
RT 4.780 Area 6684663

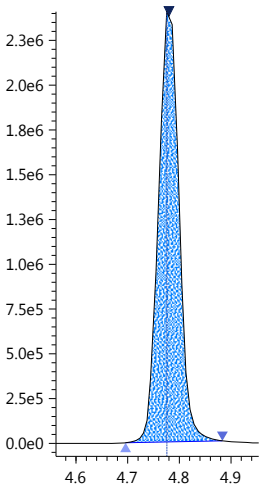
Q 467.80>423.00 (-) 2.41e6



PFNA-13C_IS

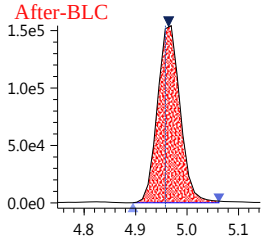
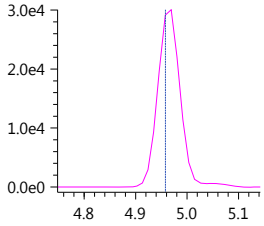
Conc 5.0000
RT 4.780 Area 6684663

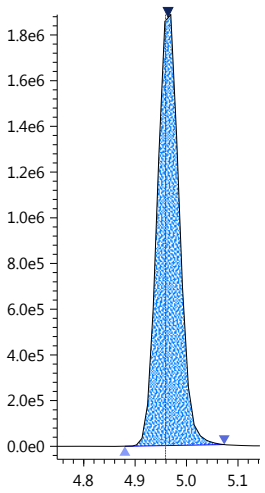
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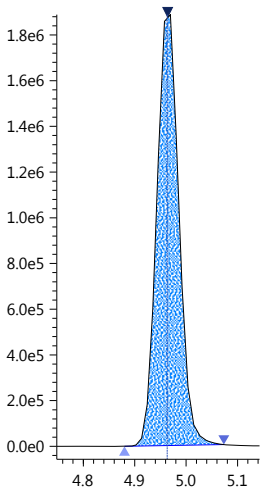


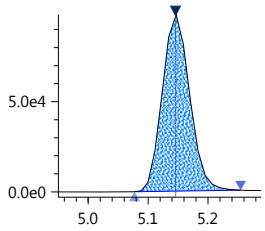
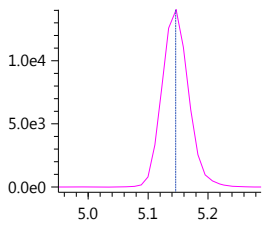
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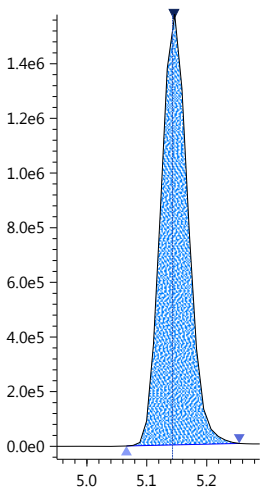
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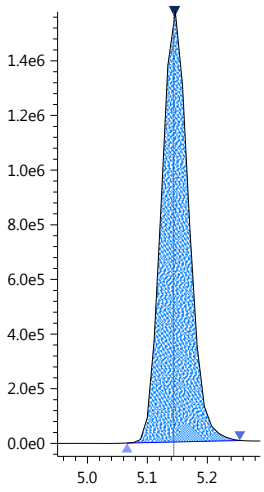
PFDA
Conc 0.5229
RT 4.964 Area 472794
R#1 19.37 (0.00)
Q 513.00>468.80 (-) 1.54e5
After-BLC

R1 513.00>219.10 (-) 3.01e4


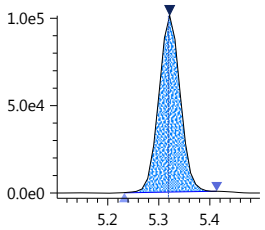
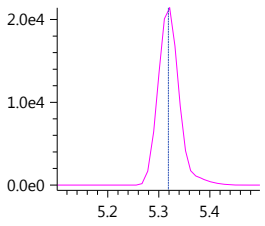
PFDA-13C
Conc 6.1734
RT 4.964 Area 5670660
Q 514.80>469.95 (-) 1.89e6


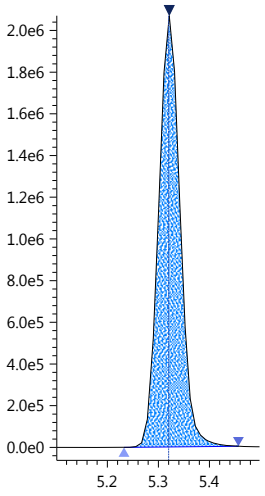
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Conc 5.0000
RT 4.964 Area 5670660
ISTD 514.80>469.95 (-) 1.89e6


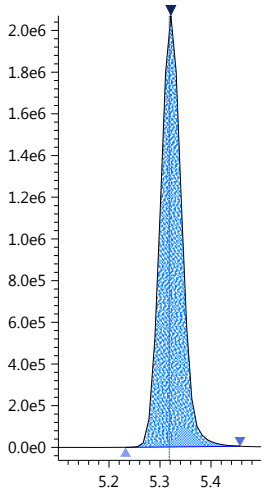
PFUnA
Conc 0.4561
RT 5.146 Area 311494
R#1 14.30 (0.00)
Q 563.00>518.90 (-) 9.83e4

R1 563.00>219.00 (-) 1.40e4


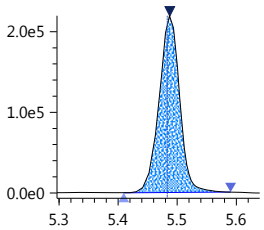
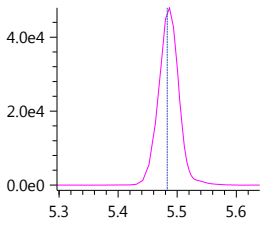
PFUnA-13C
Conc 4.8527
RT 5.145 Area 5010031
Q 564.80>519.95 (-) 1.58e6


PFUnA-13C_IS
Conc 5.0000
RT 5.145 Area 5010031
ISTD 564.80>519.95 (-) 1.58e6


PFDoA
Conc 0.4955
RT 5.321 Area 293952
R#1 20.98 (0.00)
Q 613.05>569.00 (-) 1.01e5

R1 613.05>169.00 (-) 2.14e4


PFDoA-13C
Conc 4.8163
RT 5.321 Area 6034377
Q 614.80>569.95 (-) 2.07e6


PFDoA-13C_IS
Conc 5.0000
RT 5.321 Area 6034377
ISTD 614.80>569.95 (-) 2.07e6


PFTrDA
Conc 0.4916
RT 5.488 Area 528183
R#1 22.01 (0.00)
Q 663.00>618.90 (-) 2.20e5

R1 662.90>169.00 (-) 4.79e4


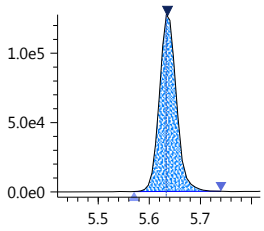
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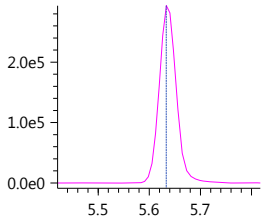
PFTeDA

Conc 0.5252
RT 5.636 Area 296636
R#1 229.66 (0.00)

Q 713.40>669.00 (-) 1.28e5



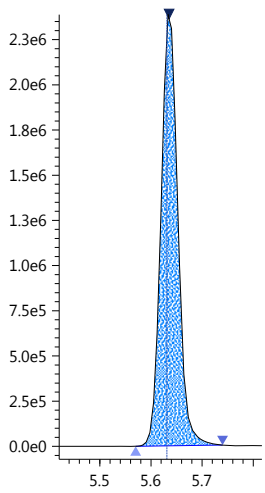
R1 713.40>169.10 (-) 2.93e5



PFTeDA-13C

Conc 5.5210
RT 5.636 Area 5490686

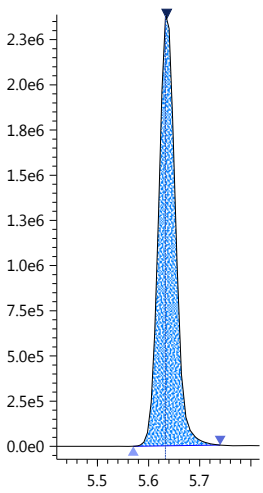
Q 714.70>669.90 (-) 2.39e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.636 Area 5490686

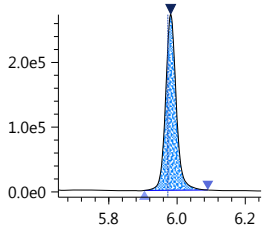
ISTD 714.70>669.90 (-) 2.39e6



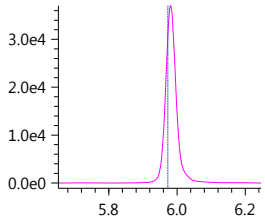
PFHxDA

Conc 0.5001
RT 5.981 Area 592194
R#1 13.96 (0.00)

Q 813.00>769.05 (-) 2.74e5



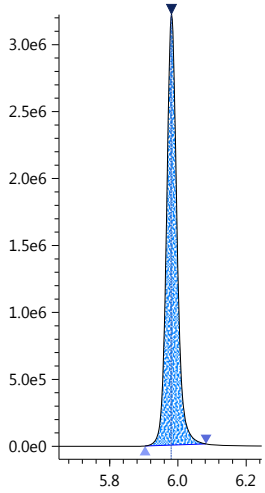
R1 813.00>218.95 (-) 3.70e4



13C-PFHxDA

Conc 5.4124
RT 5.981 Area 6879328

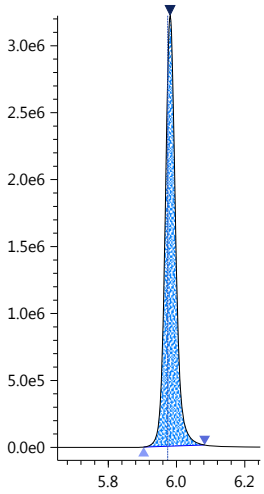
Q 815.00>770.05 (-) 3.22e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.981 Area 6879328

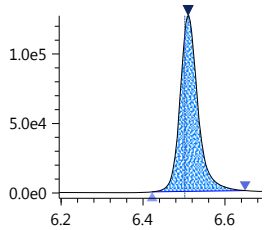
ISTD 815.00>770.05 (-) 3.22e6



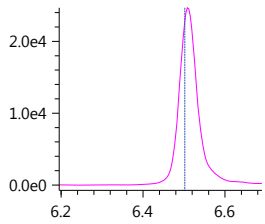
PFODA

Conc 0.4789
RT 6.510 Area 383399
R#1 19.24 (0.00)

Q 913.00>868.85 (-) 1.28e5



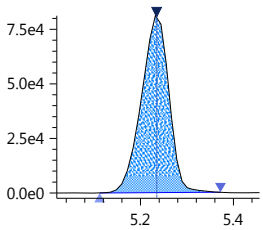
R1 913.00>169.00 (-) 2.47e4



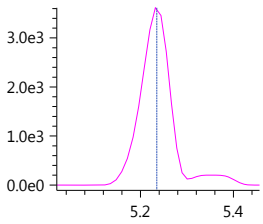
FOSA

Conc 0.4764
RT 5.235 Area 333439
R#1 4.35 (0.00)

Q 498.20>78.00 (-) 8.13e4



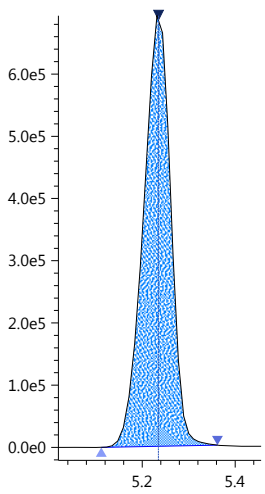
R1 498.20>64.10 (-) 3.62e3



FOSA-13C

Conc 5.2194
RT 5.235 Area 2832128

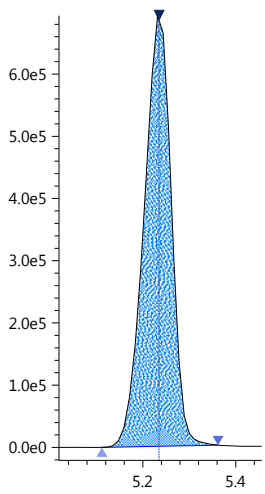
Q 506.00>78.05 (-) 6.94e5



FOSA-13C_IS

Conc 5.0000
RT 5.235 Area 2832128

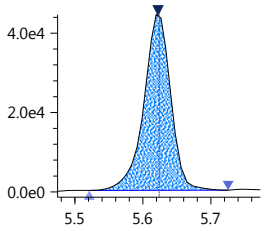
ISTD 506.00>78.05 (-) 6.94e5



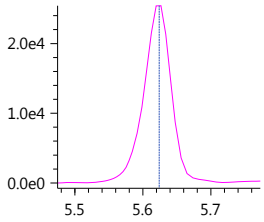
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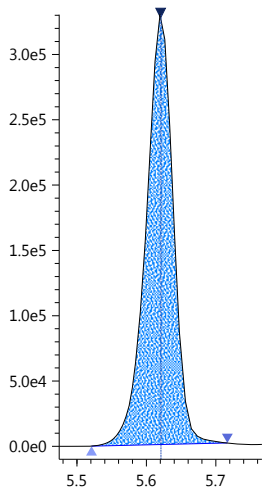
N-MeFOSA
Conc 0.4768
RT 5.622 Area 122104
R#1 57.01 (0.00)
Q 512.00>169.10 (-) 4.47e4



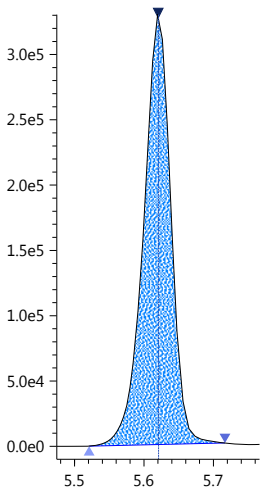
R1 512.00>219.00 (-) 2.54e4



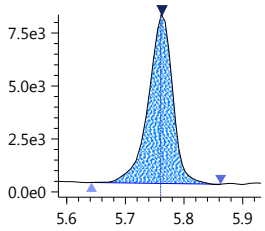
N-MeFOSA-d3
Conc 5.4283
RT 5.621 Area 899724
Q 514.90>168.90 (-) 3.31e5



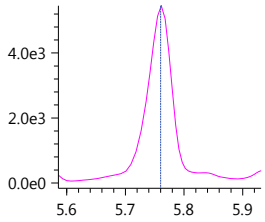
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Conc 5.0000
RT 5.621 Area 899724
ISTD 514.90>168.90 (-) 3.31e5



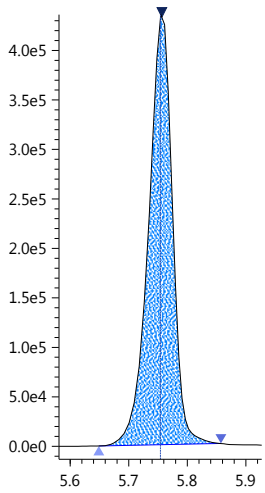
N-EtFOSA
Conc 0.4896
RT 5.762 Area 23001
R#1 66.76 (0.00)
Q 526.90>169.10 (-) 8.37e3



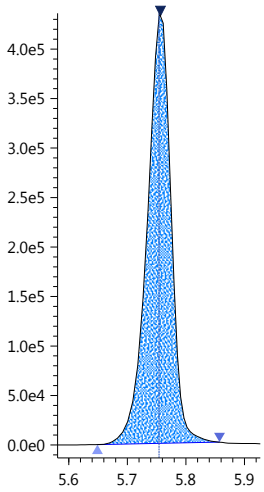
R1 526.90>219.00 (-) 5.45e3



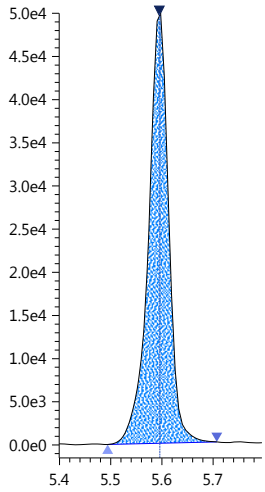
N-EtFOSA-d9
Conc 5.4469
RT 5.757 Area 1233777
Q 530.90>169.15 (-) 4.36e5



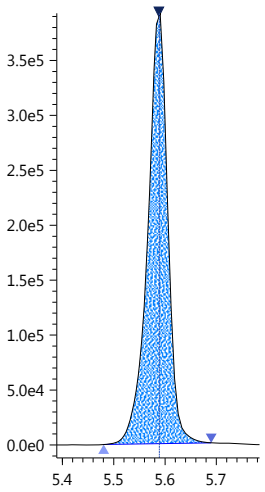
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.757 Area 1233777
ISTD 530.90>169.15 (-) 4.36e5



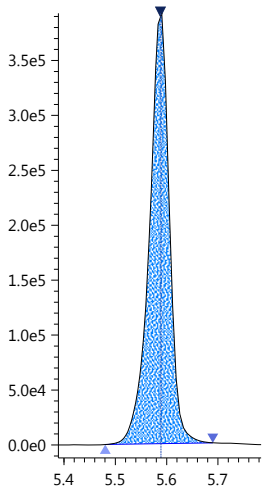
N-MeFOSE
Conc 0.5053
RT 5.595 Area 137393
Q 616.00>59.00 (-) 5.00e4



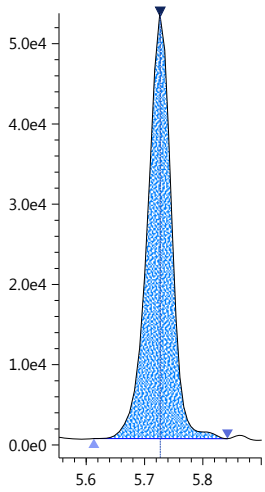
N-MeFOSE-d7
Conc 5.3000
RT 5.588 Area 1065138
Q 622.70>59.10 (-) 3.93e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.588 Area 1065138
ISTD 622.70>59.10 (-) 3.93e5



N-EtFOSE
Conc 0.5356
RT 5.727 Area 151456
Q 630.00>58.90 (-) 5.38e4



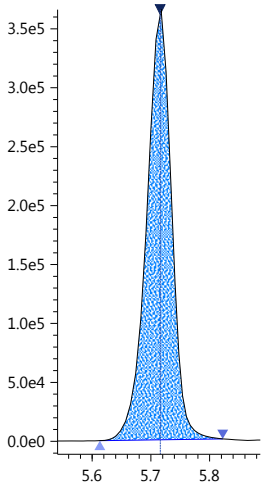
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N-EtFOSE-d9

Conc 5.2652
RT 5.716 Area 1078755

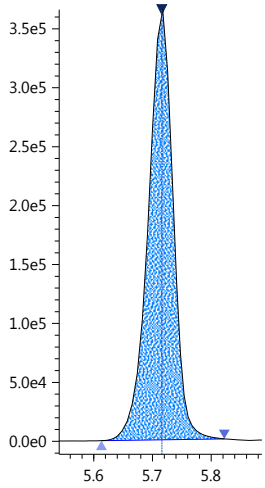
Q 638.70>59.10 (-) 3.66e5



N-EtFOSE-d9_IS

Conc 5.0000
RT 5.716 Area 1078755

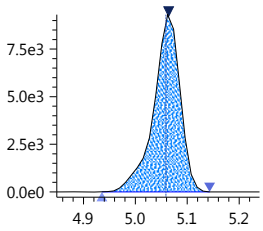
ISTD 638.70>59.10 (-) 3.66e5



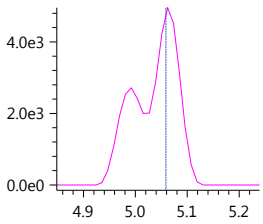
N-MeFOSAA

Conc 0.4748
RT 5.064 Area 32966
R#1 53.16 (0.00)

Q 570.20>419.00 (-) 9.31e3



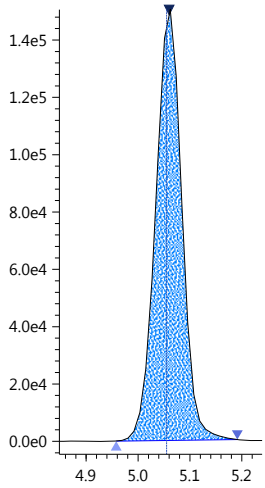
R1 570.20>512.00 (-) 4.96e3



N-MeFOSAA-d3

Conc 5.2194
RT 5.060 Area 529106

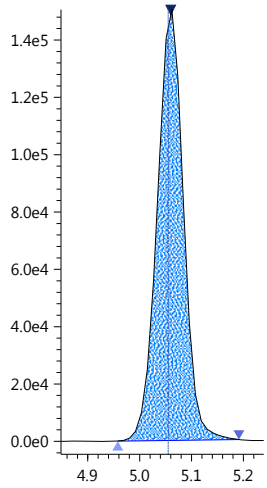
Q 572.80>419.05 (-) 1.51e5



N-MeFOSAA-d3_IS

Conc 5.0000
RT 5.060 Area 529106

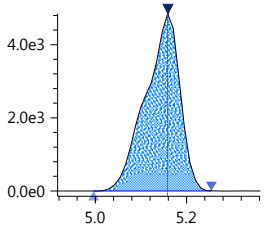
ISTD 572.80>419.05 (-) 1.51e5



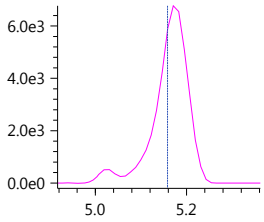
N-EtFOSAA

Conc 0.5967
RT 5.159 Area 25293
R#1 119.45 (0.00)

Q 584.20>418.95 (-) 4.85e3



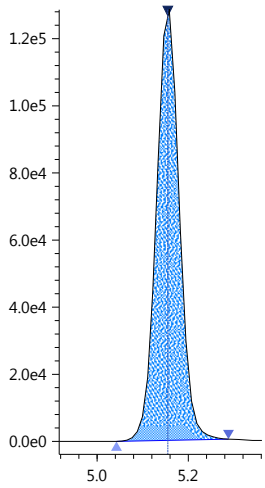
R1 584.20>526.10 (-) 6.77e3



N-EtFOSAA-d5

Conc 4.8829
RT 5.155 Area 451974

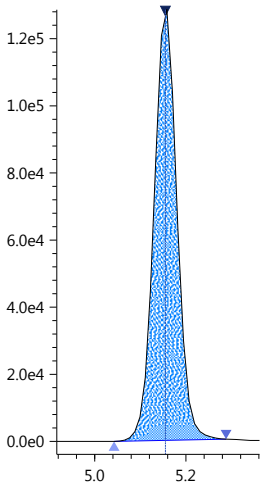
Q 588.80>419.00 (-) 1.29e5



N-EtFOSAA-d5_IS

Conc 5.0000
RT 5.155 Area 451974

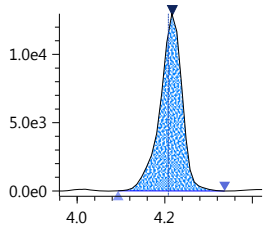
ISTD 588.80>419.00 (-) 1.29e5



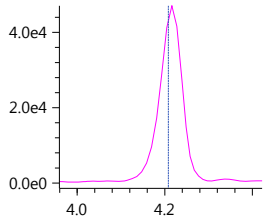
4_2-FTS_1

Conc 0.4415
RT 4.217 Area 45187
R#1 358.70 (0.00)

Q 327.00>307.05 (-) 1.30e4



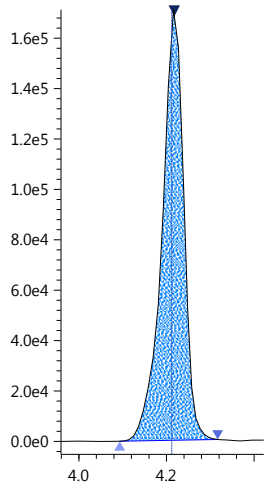
R1 327.00>81.10 (-) 4.71e4



4_2-FTS-13C

Conc 5.1274
RT 4.218 Area 588860

Q 328.80>309.05 (-) 1.71e5

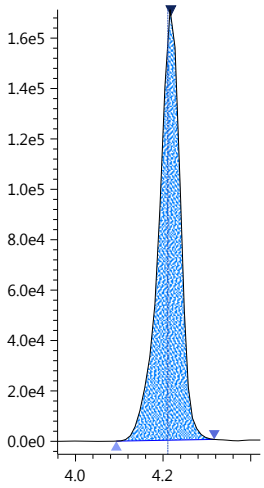


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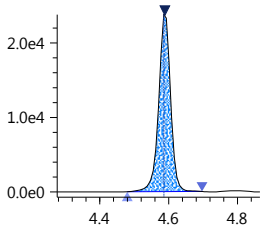
4_2-FTS-13C_IS
Conc 5.0000
RT 4.218 Area 588860

ISTD 328.80>309.05 (-) 1.71e5

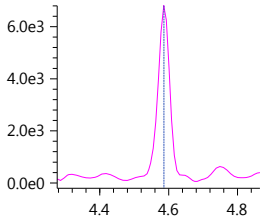


6_2-FTS_1
Conc 0.4714
RT 4.589 Area 57366
R#1 28.19 (0.00)

Q 427.00>407.00 (-) 2.38e4

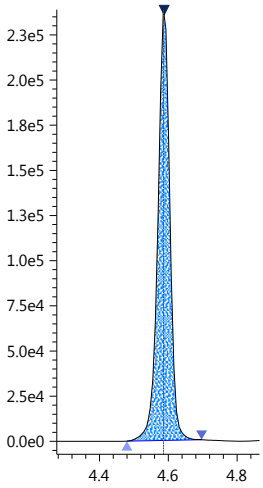


R1 427.00>80.90 (-) 6.81e3



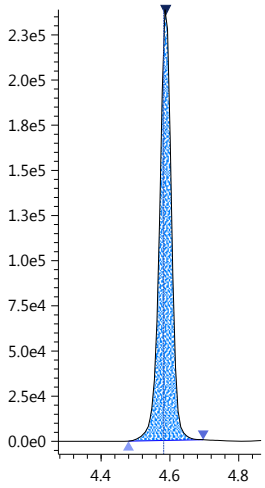
6_2-FTS-13C
Conc 5.9504
RT 4.588 Area 576965

Q 428.90>409.00 (-) 2.39e5



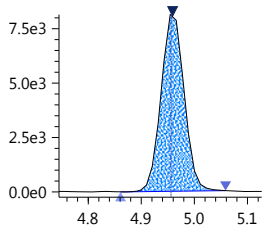
6_2-FTS-13C_IS
Conc 5.0000
RT 4.588 Area 576965

ISTD 428.90>409.00 (-) 2.39e5

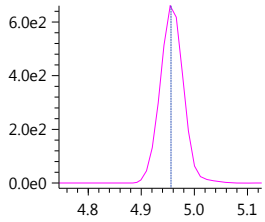


8_2-FTS_1
Conc 0.5673
RT 4.959 Area 24634
R#1 8.15 (0.00)

Q 527.10>506.90 (-) 8.15e3

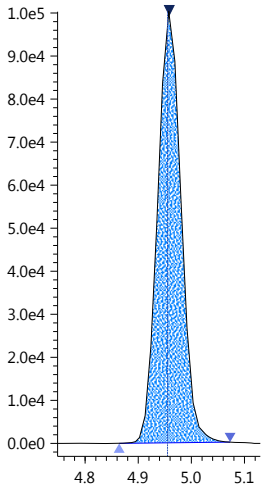


R1 527.20>487.00 (-) 6.61e2



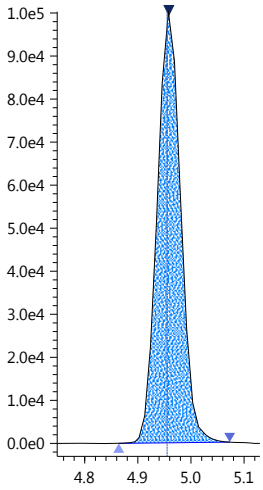
8_2-FTS-13C
Conc 4.8668
RT 4.958 Area 308281

Q 528.80>509.00 (-) 1.00e5



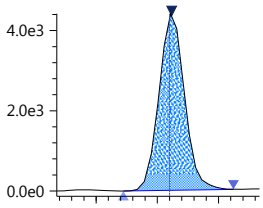
8_2-FTS-13C_IS
Conc 5.0000
RT 4.958 Area 308281

ISTD 528.80>509.00 (-) 1.00e5

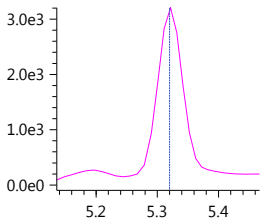


10_2-FtS_1
Conc 0.4780
RT 5.323 Area 12753
R#1 68.95 (0.00)

Q 627.00>606.95 (-) 4.42e3

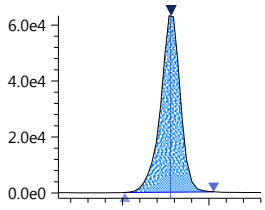


R1 627.00>81.25 (-) 3.21e3

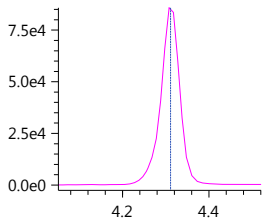


HPFO_DA
Conc 0.4126
RT 4.313 Area 202491
R#1 135.10 (0.00)

Q 329.00>169.00 (-) 6.33e4

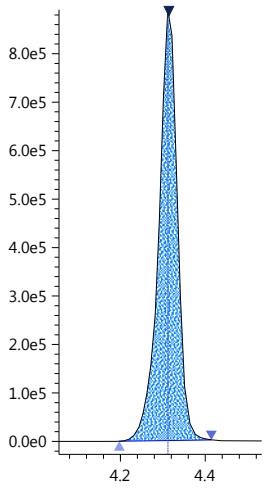


R1 329.00>285.10 (-) 8.58e4



HFPO_DA-13C
Conc 6.4985
RT 4.314 Area 2719851

Q 332.00>286.80 (-) 8.91e5



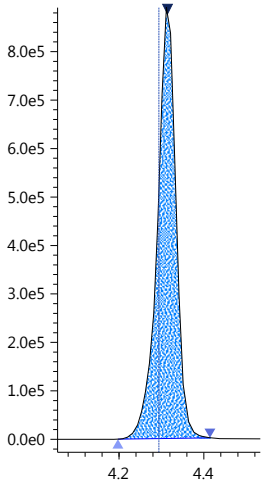
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.314 Area 2719851

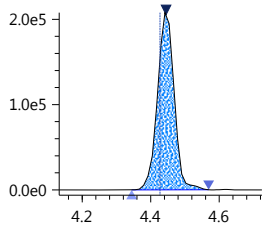
ISTD 332.00>286.80 (-) 8.91e5



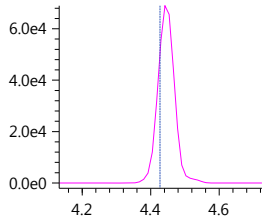
ADONA

Conc 0.4666
RT 4.445 Area 705168
R#1 33.15 (0.00)

Q 377.00>251.00 (-) 2.08e5



R1 377.00>84.95 (-) 6.90e4



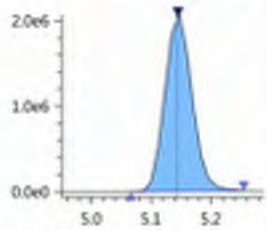
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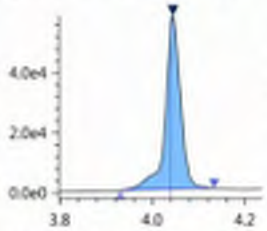
190917_008

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Date acquired: 9/17/2019 4:12:53 PM
Acquired by: System Administrator
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Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

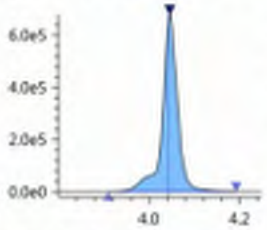
13C7-PFUnDA_IS
Conc 5.0000
RT 5.145 Area 6513210
ISTD 570.00>525.00 (-) 2.07e6



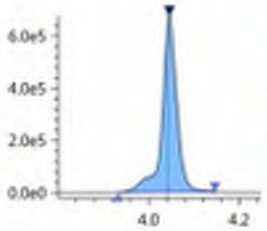
PFBS_1
Conc 0.4174
RT 4.044 Area 130601
Q 299.00>80.00 (-) 5.91e4



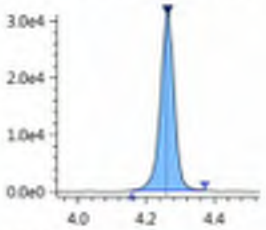
PFBS-13C
Conc 5.1812
RT 4.046 Area 1568506
Q 301.80>80.00 (-) 6.79e5



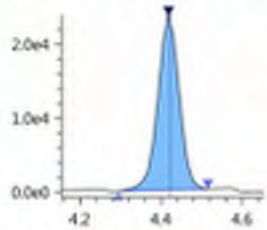
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ISTD 301.80>80.00 (-) 6.79e5



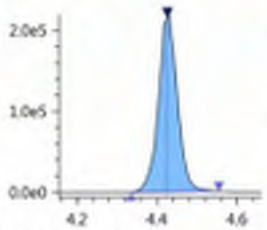
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Conc 0.5202
RT 4.263 Area 89492
Q 349.00>99.00 (-) 3.11e4



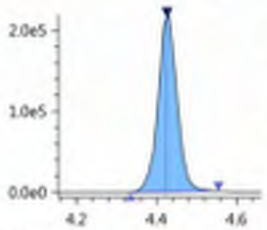
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Conc 0.4391
RT 4.418 Area 86570
Q 399.00>80.00 (-) 2.40e4



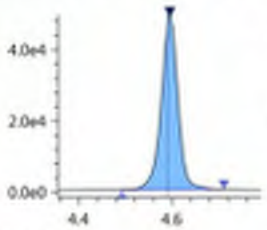
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Conc 4.7704
RT 4.426 Area 714770
Q 402.70>84.05 (-) 2.19e5



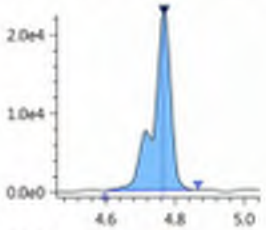
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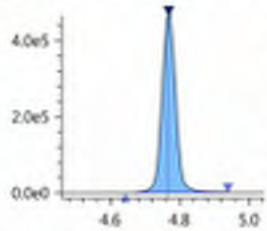
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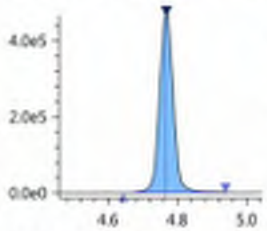
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Q 499.00>80.00 (-) 2.25e4



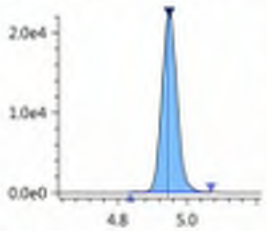
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Q 502.80>80.05 (-) 4.66e5



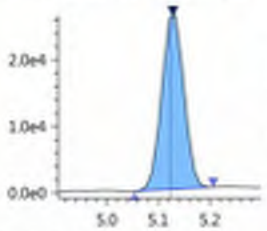
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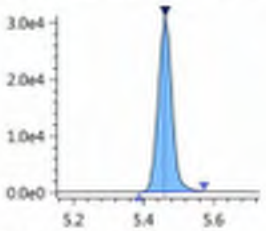
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Q 549.00>99.00 (-) 2.21e4



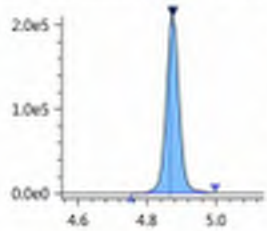
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RT 5.128 Area 79473
Q 599.00>79.90 (-) 2.67e4



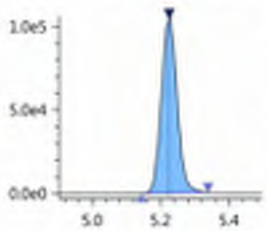
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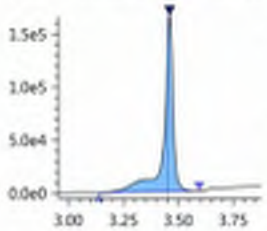
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Q 531.00>351.00 (-) 2.11e5



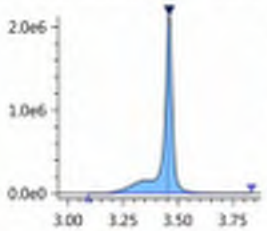
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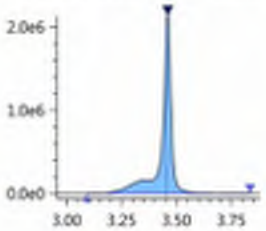
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Conc 0.5056
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Q 213.00>169.10 (-) 1.67e5



PFBA-13C
Conc 5.3766
RT 3.459 Area 6413023
Q 216.90>172.15 (-) 2.13e6



PFBA-13C_IS
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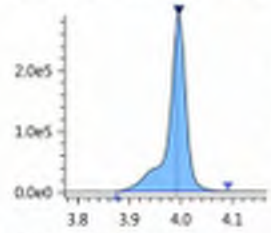


Manual Integration - Before

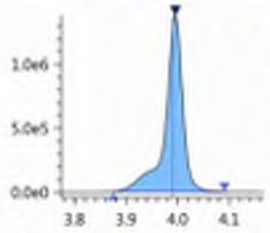
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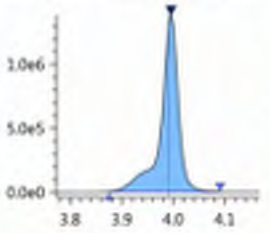
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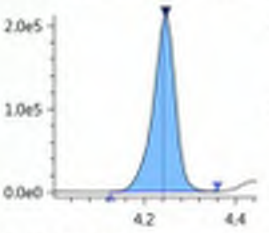
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Q 267.90>223.00 (-) 1.39e6



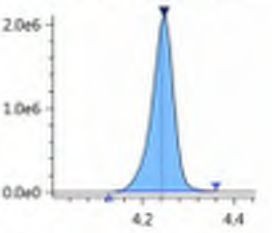
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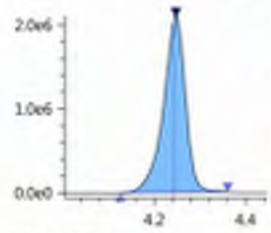
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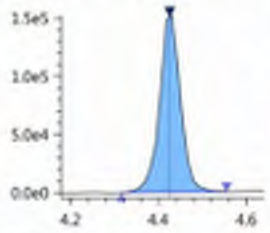
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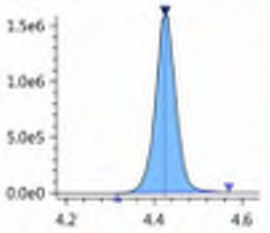
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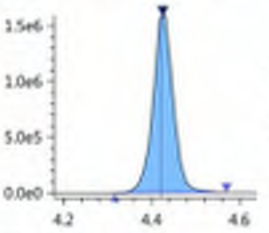
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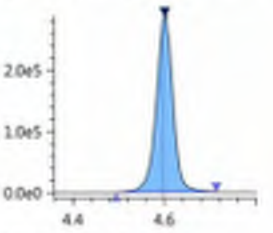
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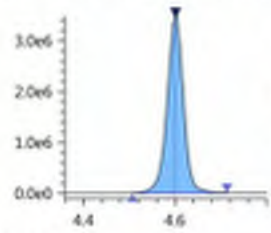
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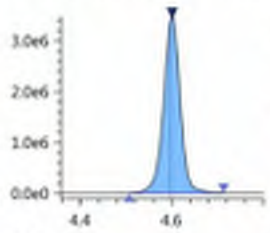
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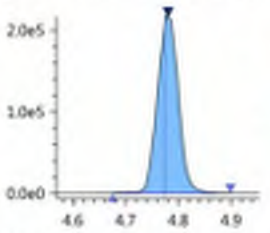
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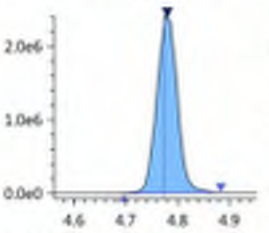
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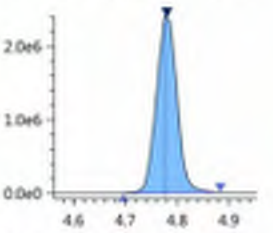
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RT 4.780 Area 597781
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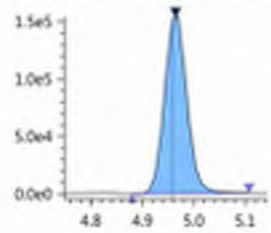
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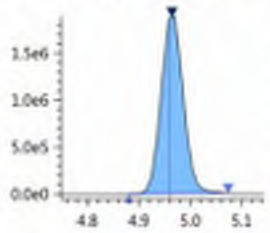
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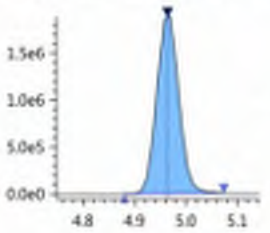
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Conc 0.5049
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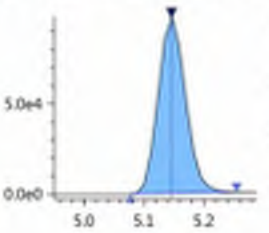
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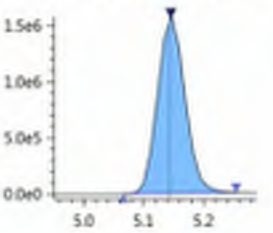
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PFUnA-13C
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Q 564.80>519.95 (-) 1.58e6



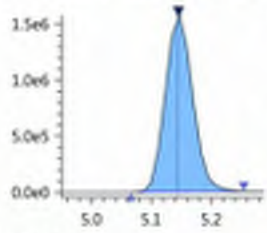
Manual Integration - Before

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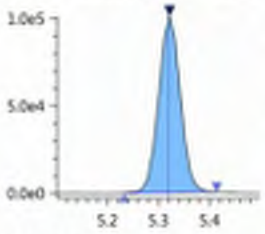
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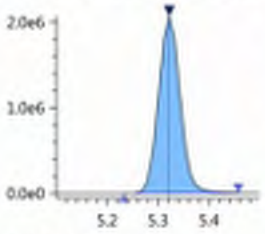
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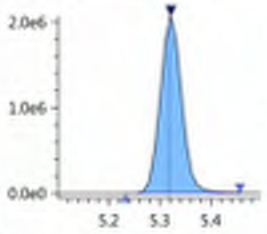
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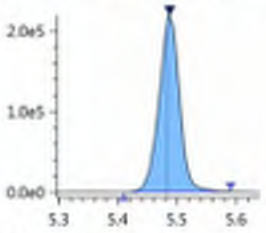
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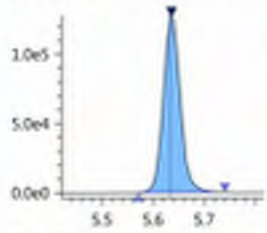
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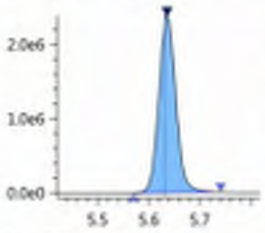
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Q 663.00>618.90 (-) 2.20e5



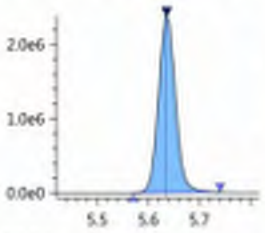
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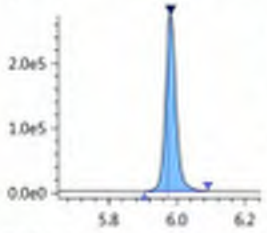
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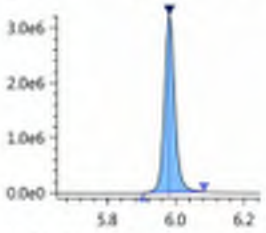
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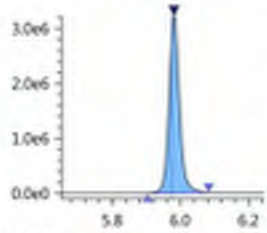
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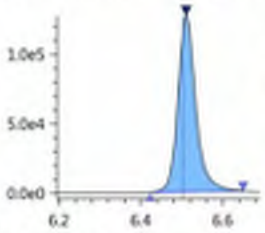
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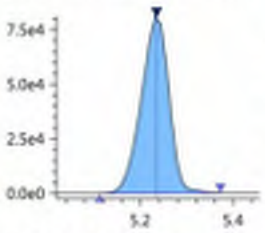
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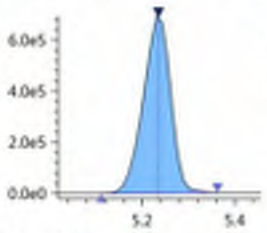
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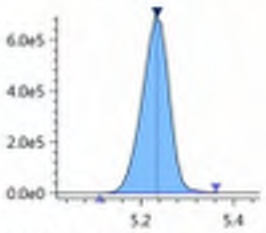
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RT 5.235 Area 333439
Q 498.20>78.00 (-) 8.13e4



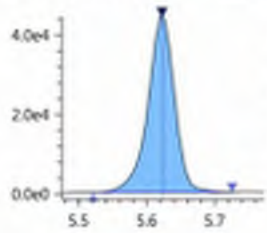
FOSA-13C
Conc 5.2194
RT 5.235 Area 2832128
Q 506.00>78.05 (-) 6.94e5



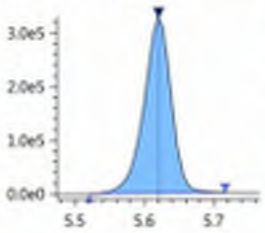
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Conc 5.0000
RT 5.235 Area 2832128
ISTD 506.00>78.05 (-) 6.94e5



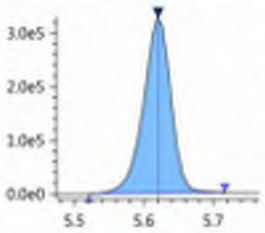
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Conc 0.4854
RT 5.622 Area 122104
Q 512.00>169.10 (-) 4.47e4



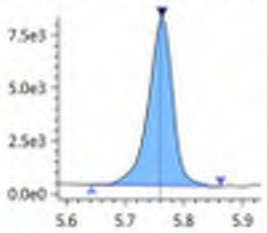
N-MeFOSA-d3
Conc 5.4283
RT 5.621 Area 899724
Q 514.90>168.90 (-) 3.31e5



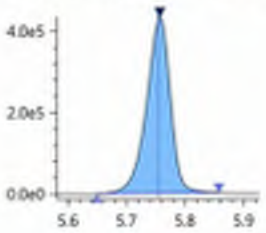
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.621 Area 899724
ISTD 514.90>168.90 (-) 3.31e5



N-EtFOSA
Conc 0.4969
RT 5.762 Area 23001
Q 526.90>169.10 (-) 8.37e3



N-EtFOSA-d9
Conc 5.4469
RT 5.757 Area 1233777
Q 530.90>169.15 (-) 4.36e5

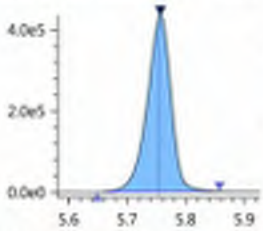


Manual Integration - Before

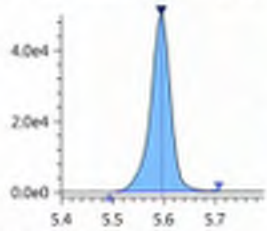
Insight Report

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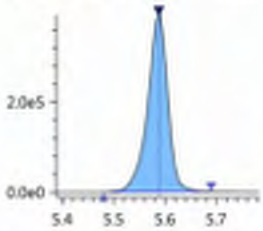
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.757 Area 1233777
ISTD 530.90>169.15 (-) 4.36e5



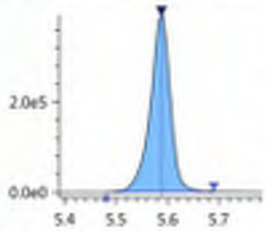
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Conc 0.5095
RT 5.595 Area 137393
Q 616.00>59.00 (-) 5.00e4



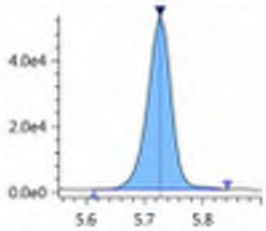
N-MeFOSE-d7
Conc 5.3000
RT 5.588 Area 1065138
Q 622.70>59.10 (-) 3.93e5



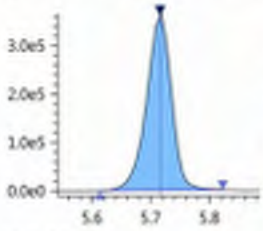
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.588 Area 1065138
ISTD 622.70>59.10 (-) 3.93e5



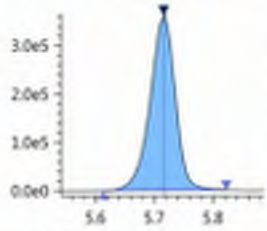
N-EtFOSE
Conc 0.5108
RT 5.727 Area 151456
Q 630.00>58.90 (-) 5.38e4



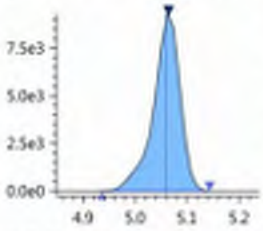
N-EtFOSE-d9
Conc 5.2652
RT 5.716 Area 1078755
Q 638.70>59.10 (-) 3.66e5



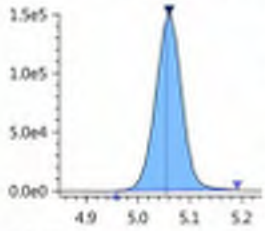
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.716 Area 1078755
ISTD 638.70>59.10 (-) 3.66e5



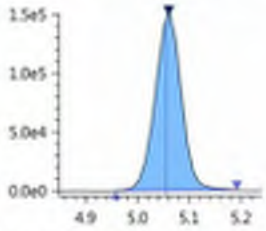
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RT 5.064 Area 32966
Q 570.20>419.00 (-) 9.31e3



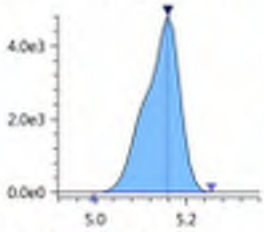
N-MeFOSAA-d3
Conc 5.2194
RT 5.060 Area 529106
Q 572.80>419.05 (-) 1.51e5



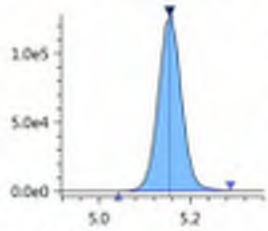
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.060 Area 529106
ISTD 572.80>419.05 (-) 1.51e5



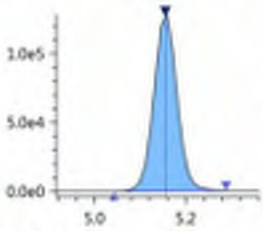
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Conc 0.5967
RT 5.159 Area 25293
Q 584.20>418.95 (-) 4.85e3



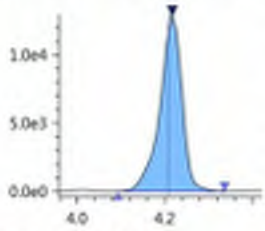
N-EtFOSAA-d5
Conc 4.8829
RT 5.155 Area 451974
Q 588.80>419.00 (-) 1.29e5



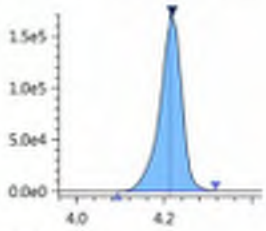
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Conc 5.0000
RT 5.155 Area 451974
ISTD 588.80>419.00 (-) 1.29e5



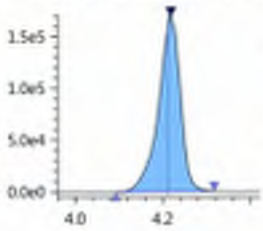
4_2-FTS_1
Conc 0.4758
RT 4.217 Area 45187
Q 327.00>307.05 (-) 1.30e4



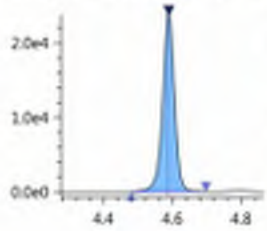
4_2-FTS-13C
Conc 4.7921
RT 4.218 Area 588860
Q 328.80>309.05 (-) 1.71e5



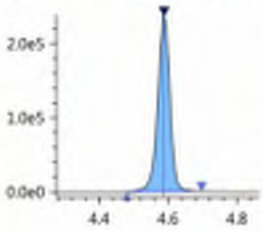
4_2-FTS-13C_IS
Conc 5.0000
RT 4.218 Area 588860
ISTD 328.80>309.05 (-) 1.71e5



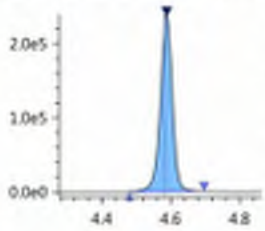
6_2-FTS_1
Conc 0.4717
RT 4.589 Area 57366
Q 427.00>407.00 (-) 2.38e4



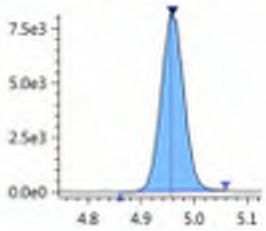
6_2-FTS-13C
Conc 5.9504
RT 4.588 Area 576965
Q 428.90>409.00 (-) 2.39e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.588 Area 576965
ISTD 428.90>409.00 (-) 2.39e5



8_2-FTS_1
Conc 0.5758
RT 4.959 Area 24634
Q 527.10>506.90 (-) 8.15e3

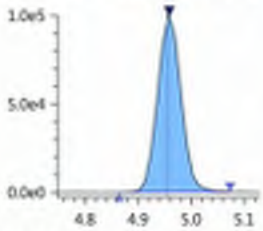


Manual Integration - Before

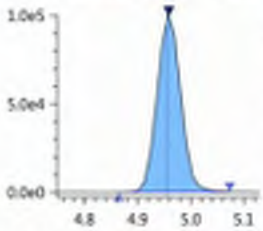
Insight Report

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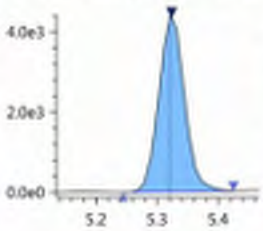
8_2-FTS-13C
Conc 4.8668
RT 4.958 Area 308281
Q 528.80>509.00 (-) 1.00e5



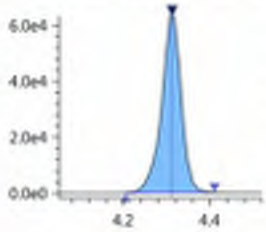
8_2-FTS-13C_IS
Conc 5.0000
RT 4.958 Area 308281
ISTD 528.80>509.00 (-) 1.00e5



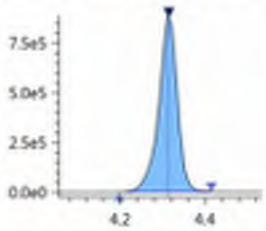
10_2-FtS_1
Conc 0.4830
RT 5.323 Area 12753
Q 627.00>606.95 (-) 4.42e3



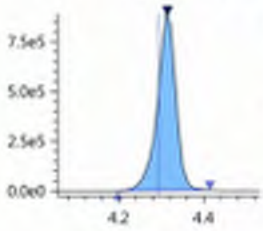
HPFO_DA
Conc 0.4482
RT 4.313 Area 202491
Q 329.00>169.00 (-) 6.33e4



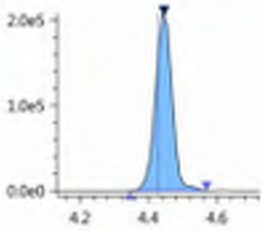
HFPO_DA-13C
Conc 5.7477
RT 4.314 Area 2719851
Q 332.00>286.80 (-) 8.91e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.314 Area 2719851
ISTD 332.00>286.80 (-) 8.91e5



ADONA
Conc 0.4701
RT 4.445 Area 705168
Q 377.00>251.00 (-) 2.08e5



Insight Report

Printed at 9/18/2019 9:25:42 AM

190917_009

Sample ID: 1.0 PPB ICAL
Date acquired: 9/17/2019 4:23:27 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_009.lcd
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.142	8160781	8160781	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.041	311909	1818060	2	0.8452	ng/mL	0.8874
PFBS-13C	Auto	4.042	1843990	8160781	1	4.8615	ng/mL	5.0000
PFBS-13C_IS	Auto	4.042	1818060	1818060	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.260	161159	1818060	2	0.8439	ng/mL	0.9409
PFHxS_1	Auto	4.421	243096	1009079	3	0.9851	ng/mL	0.9131
PFHxS-18O	Auto	4.424	1009079	8160781	1	5.3750	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.424	1009079	1009079	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.591	251468	1009079	3	0.8088	ng/mL	0.9534
PFOS_1	Auto	4.765	136730	1085052	4	0.9184	ng/mL	0.9292
PFOS-13C	Auto	4.765	1085052	8160781	1	3.9655	ng/mL	5.0000
PFOS-13C_IS	Auto	4.765	1085052	1085052	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.946	116999	1085052	4	1.0196	ng/mL	0.9616
PFDS_1	M	5.125	146801	1085052	4	0.9850	ng/mL	0.9647
PFDOS	M	5.456	180038	1085052	4	0.9910	ng/mL	0.9696
9Cl-PF3ONS	Auto	4.869	1219989	2185973	26	1.0864	ng/mL	0.9332
11Cl-PF3OUdS	Auto	5.222	792713	2185973	26	1.0286	ng/mL	0.9432
PFBA	Auto	3.454	971294	6235498	5	1.0083	ng/mL	1.0000
PFBA-13C	Auto	3.453	6235498	8160781	1	4.2114	ng/mL	5.0000
PFBA-13C_IS	Auto	3.453	6235498	6235498	5	5.0000	ng/mL	5.0000
PFPeA	M	3.991	1276769	3211454	6	1.0128	ng/mL	1.0000
PFPeA-13C	Auto	3.990	3211454	8160781	1	4.2693	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.990	3211454	3211454	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.243	1758809	9093683	7	0.9912	ng/mL	1.0000
PFHxA-13C	Auto	4.243	9093683	8160781	1	5.0154	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.243	9093683	9093683	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.423	1265904	6679917	8	0.9549	ng/mL	1.0000
PFHpA-13C	Auto	4.423	6679917	8160781	1	5.4472	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.423	6679917	6679917	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.598	1460797	8760069	9	0.9919	ng/mL	1.0000
PFOA-13C	Auto	4.598	8760069	8160781	1	4.4341	ng/mL	5.0000
PFOA-13C_IS	Auto	4.598	8760069	8760069	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.776	847282	5388603	10	0.9438	ng/mL	1.0000
PFNA-13C	Auto	4.776	5388603	8160781	1	3.8730	ng/mL	5.0000
PFNA-13C_IS	Auto	4.776	5388603	5388603	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.961	782287	5014860	11	0.9891	ng/mL	1.0000
PFDA-13C	Auto	4.961	5014860	8160781	1	4.3573	ng/mL	5.0000
PFDA-13C_IS	Auto	4.961	5014860	5014860	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.143	827237	6152717	12	1.0120	ng/mL	1.0000
PFUnA-13C	Auto	5.142	6152717	8160781	1	4.7564	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.142	6152717	6152717	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.317	697976	7203251	13	0.9614	ng/mL	1.0000
PFDoA-13C	Auto	5.318	7203251	8160781	1	4.5886	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.318	7203251	7203251	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.481	1071859	5641406	14	0.9751	ng/mL	1.0000
PFTeDA	Auto	5.631	534430	5641406	14	1.0327	ng/mL	1.0000
PFTeDA-13C	Auto	5.631	5641406	8160781	1	4.5273	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.631	5641406	5641406	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.977	1100867	6762952	15	1.0072	ng/mL	1.0000
13C-PFHxDA	Auto	5.977	6762952	8160781	1	4.2467	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.977	6762952	6762952	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.502	776549	6762952	15	0.9867	ng/mL	1.0000
FOSA	Auto	5.234	681798	2844844	16	0.9699	ng/mL	1.0000
FOSA-13C	Auto	5.234	2844844	8160781	1	4.1843	ng/mL	5.0000
FOSA-13C_IS	Auto	5.234	2844844	2844844	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.620	225541	847086	17	0.9355	ng/mL	1.0000
N-MeFOSA-d3	Auto	5.617	847086	8160781	1	4.0789	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.617	847086	847086	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.759	44692	1172210	18	1.0014	ng/mL	1.0000
N-EtFOSA-d9	Auto	5.753	1172210	8160781	1	4.1303	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.753	1172210	1172210	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.592	284337	1076072	19	1.0351	ng/mL	1.0000
N-MeFOSE-d7	Auto	5.585	1076072	8160781	1	4.2734	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.585	1076072	1076072	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.723	277541	1110278	20	0.9537	ng/mL	1.0000
N-EtFOSE-d9	Auto	5.712	1110278	8160781	1	4.3250	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.712	1110278	1110278	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.060	73629	523988	21	1.0708	ng/mL	1.0000

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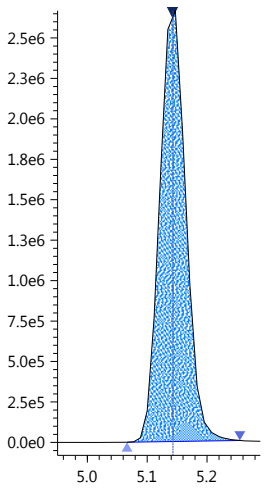
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.056	523988	8160781	1	4.1254	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.056	523988	523988	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.158	44223	501969	22	0.9393	ng/mL	1.0000
N-EtFOSAA-d5	Auto	5.154	501969	8160781	1	4.3282	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.154	501969	501969	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.210	92959	593348	23	0.9015	ng/mL	0.9372
4_2-FTS-13C	Auto	4.211	593348	8160781	1	4.1234	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.211	593348	593348	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.583	101314	503865	24	0.9534	ng/mL	0.9512
6_2-FTS-13C	Auto	4.584	503865	8160781	1	4.1474	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.584	503865	503865	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.954	42269	339390	25	0.8842	ng/mL	0.9600
8_2-FTS-13C	Auto	4.954	339390	8160781	1	4.2762	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.954	339390	339390	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.319	27741	339390	25	0.9444	ng/mL	0.9662
HPFO_DA	Auto	4.310	412505	2185973	26	1.0458	ng/mL	1.0000
HFPO_DA-13C	Auto	4.308	2185973	8160781	1	4.1685	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.308	2185973	2185973	26	5.0000	ng/mL	5.0000
ADONA	M	4.440	1086020	2185973	26	0.8941	ng/mL	0.9451

13C7-PFUnDA_IS

Conc 5.0000
RT 5.142 Area 8160781

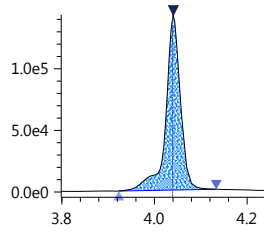
ISTD 570.00>525.00 (-) 2.67e6



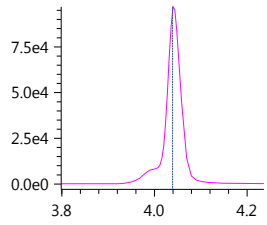
PFBS_1

Conc 0.8452
RT 4.041 Area 311909
R#1 68.24 (0.00)

Q 299.00>80.00 (-) 1.44e5



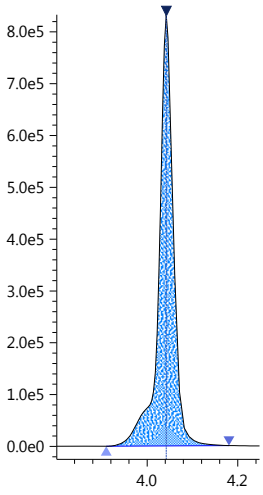
R1 298.80>99.00 (-) 9.69e4



PFBS-13C

Conc 4.8615
RT 4.042 Area 1843990

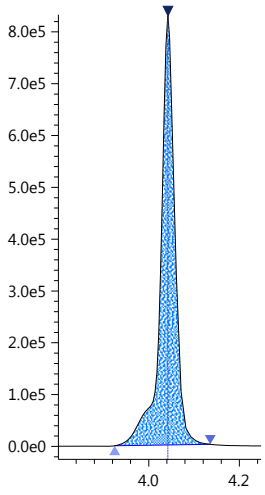
Q 301.80>80.00 (-) 8.33e5



PFBS-13C_IS

Conc 5.0000
RT 4.042 Area 1818060

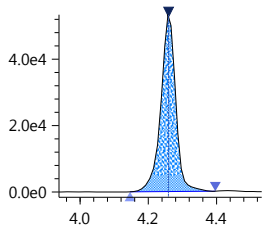
ISTD 301.80>80.00 (-) 8.33e5



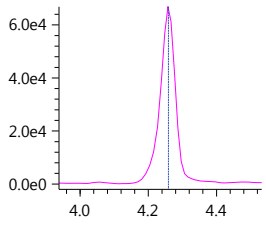
PFPeS

Conc 0.8439
RT 4.260 Area 161159
R#1 124.58 (0.00)

Q 349.00>99.00 (-) 5.34e4



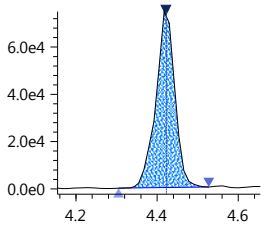
R1 349.00>79.95 (-) 6.68e4



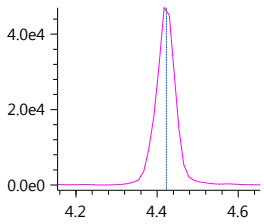
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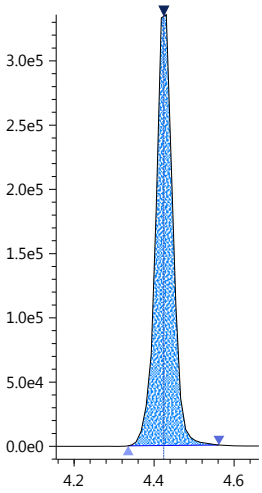
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Conc 0.9851
RT 4.421 Area 243096
R#1 62.96 (0.00)
Q 399.00>80.00 (-) 7.50e4



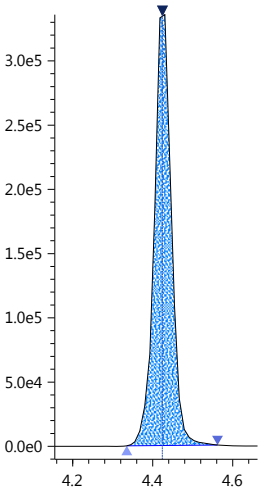
R1 399.00>99.00 (-) 4.70e4



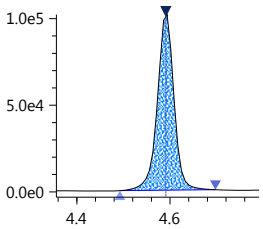
PFHxS-18O
Conc 5.3750
RT 4.424 Area 1009079
Q 402.70>84.05 (-) 3.36e5



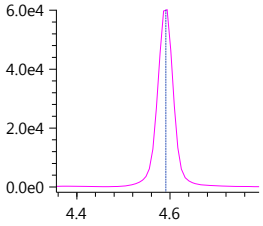
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Conc 5.0000
RT 4.424 Area 1009079
ISTD 402.70>84.05 (-) 3.36e5



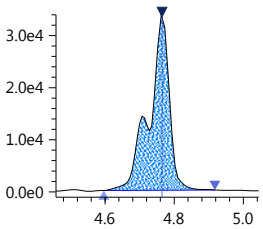
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Conc 0.8088
RT 4.591 Area 251468
R#1 60.76 (0.00)
Q 449.00>80.15 (-) 1.02e5



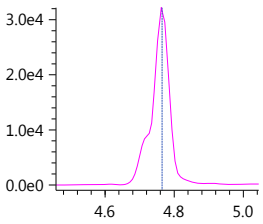
R1 449.00>99.20 (-) 6.02e4



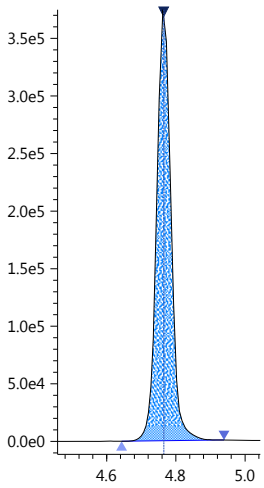
PFOS_1
Conc 0.9184
RT 4.765 Area 136730
R#1 94.97 (0.00)
Q 499.00>80.00 (-) 3.40e4



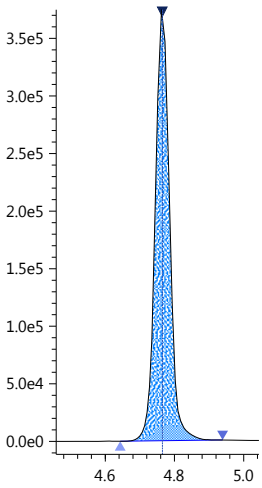
R1 499.00>99.00 (-) 3.22e4



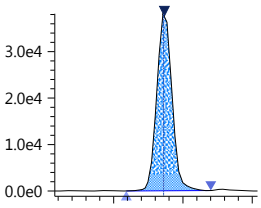
PFOS-13C
Conc 3.9655
RT 4.765 Area 1085052
Q 502.80>80.05 (-) 3.75e5



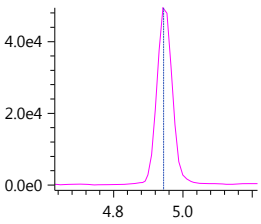
PFOS-13C_IS
Conc 5.0000
RT 4.765 Area 1085052
ISTD 502.80>80.05 (-) 3.75e5



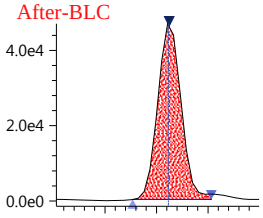
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Conc 1.0196
RT 4.946 Area 116999
R#1 129.01 (0.00)
Q 549.00>99.00 (-) 3.82e4



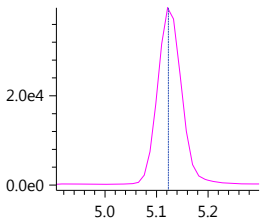
R1 549.00>79.95 (-) 4.94e4



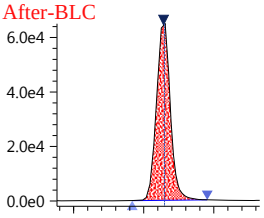
PFDS_1
Conc 0.9850
RT 5.125 Area 146801
R#1 85.55 (0.00)
Q 599.00>79.90 (-) 4.71e4



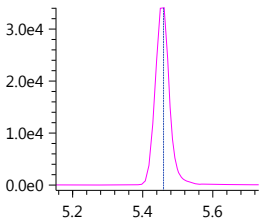
R1 599.00>99.10 (-) 3.97e4



PFDOS
Conc 0.9910
RT 5.456 Area 180038
R#1 52.50 (0.00)
Q 699.00>79.95 (-) 6.51e4



R1 699.00>99.05 (-) 3.41e4



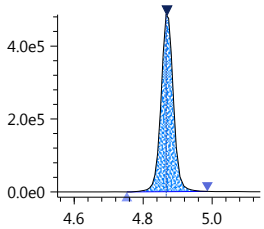
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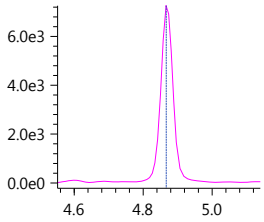
9Cl-PF3ONS

Conc 1.0864
RT 4.869 Area 1219989
R#1 1.49 (0.00)

Q 531.00>351.00 (-) 4.86e5



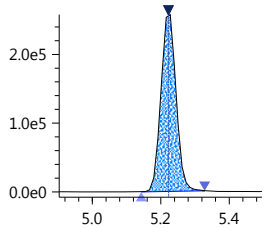
R1 531.00>98.90 (-) 7.26e3



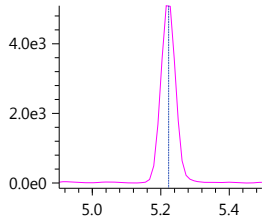
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Conc 1.0286
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Q 631.00>451.05 (-) 2.58e5



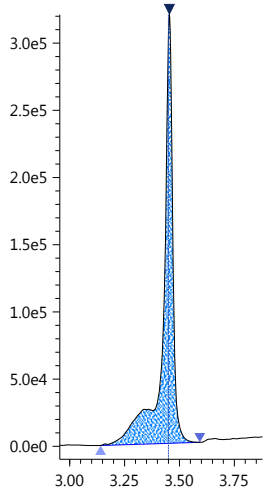
R1 631.00>98.90 (-) 5.09e3



PFBA

Conc 1.0083
RT 3.454 Area 971294

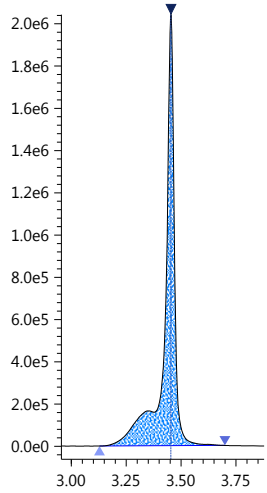
Q 213.00>169.10 (-) 3.21e5



PFBA-13C

Conc 4.2114
RT 3.453 Area 6235498

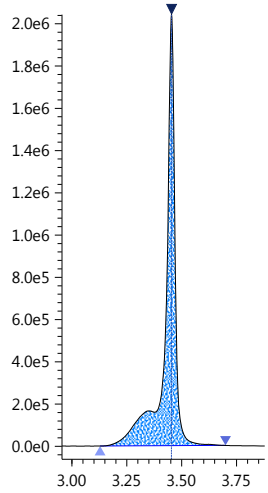
Q 216.90>172.15 (-) 2.04e6



PFBA-13C_IS

Conc 5.0000
RT 3.453 Area 6235498

ISTD 216.90>172.15 (-) 2.04e6

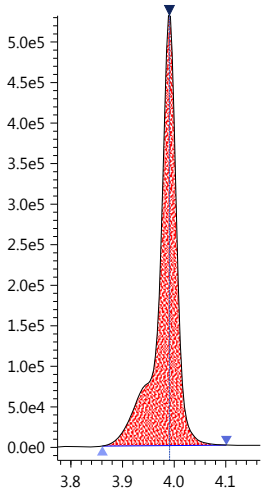


PFPeA

Conc 1.0128
RT 3.991 Area 1276769

After-BLC

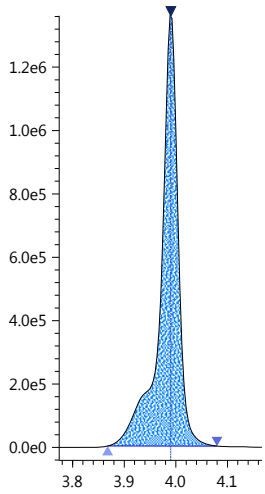
Q 263.05>219.10 (-) 5.32e5



PFPeA-13C

Conc 4.2693
RT 3.990 Area 3211454

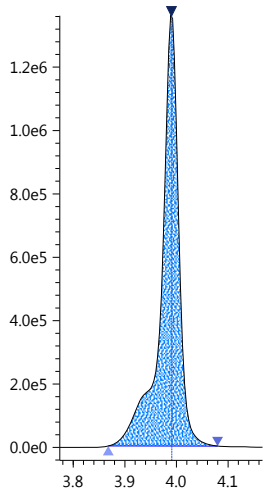
Q 267.90>223.00 (-) 1.36e6



PFPeA-13C_IS

Conc 5.0000
RT 3.990 Area 3211454

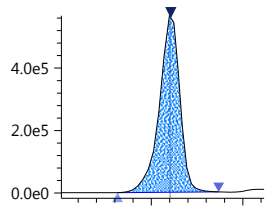
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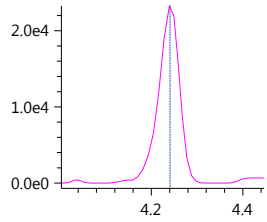
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Conc 0.9912
RT 4.243 Area 1758809
R#1 4.13 (0.00)

Q 313.00>269.00 (-) 5.68e5



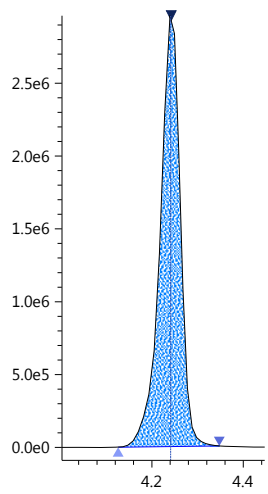
R1 313.00>119.10 (-) 2.33e4



PFHxA-13C

Conc 5.0154
RT 4.243 Area 9093683

Q 314.90>270.10 (-) 2.96e6



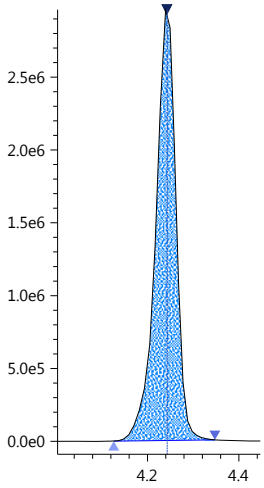
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PFHxA-13C_IS

Conc 5.0000
RT 4.243 Area 9093683

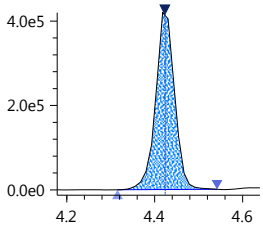
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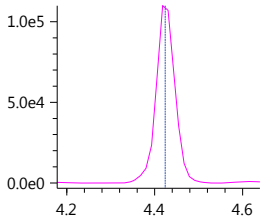
PFHpA

Conc 0.9549
RT 4.423 Area 1265904
R#1 26.50 (0.00)

Q 362.90>319.00 (-) 4.20e5



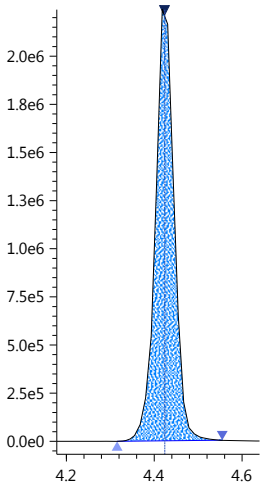
R1 362.90>169.00 (-) 1.10e5



PFHpA-13C

Conc 5.4472
RT 4.423 Area 6679917

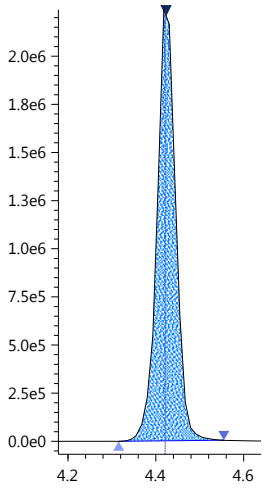
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PFHpA-13C_IS

Conc 5.0000
RT 4.423 Area 6679917

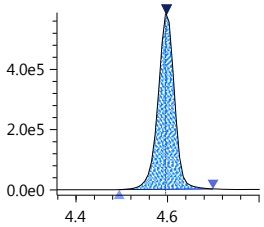
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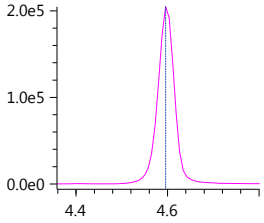
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Conc 0.9919
RT 4.598 Area 1460797
R#1 34.78 (0.00)

Q 413.00>369.00 (-) 5.88e5



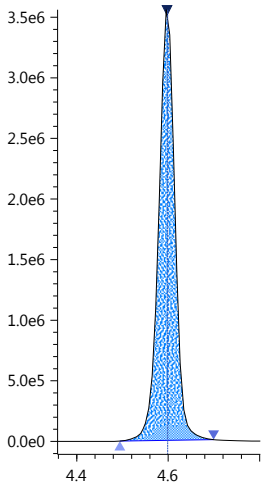
R1 413.00>169.10 (-) 2.05e5



PFOA-13C

Conc 4.4341
RT 4.598 Area 8760069

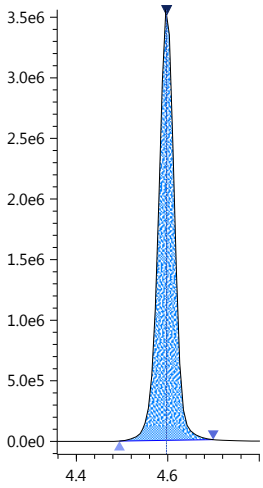
Q 416.80>372.05 (-) 3.56e6



PFOA-13C_IS

Conc 5.0000
RT 4.598 Area 8760069

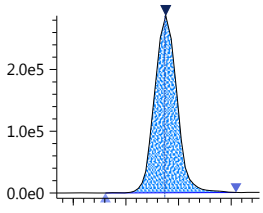
ISTD 416.80>372.05 (-) 3.56e6



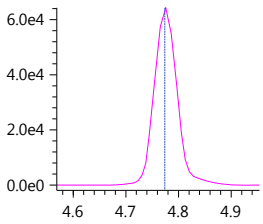
PFNA

Conc 0.9438
RT 4.776 Area 847282
R#1 22.42 (0.00)

Q 463.00>418.90 (-) 2.87e5



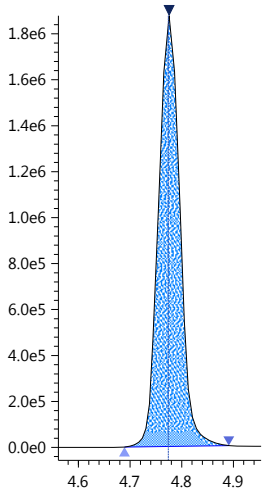
R1 463.00>219.00 (-) 6.43e4



PFNA-13C

Conc 3.8730
RT 4.776 Area 5388603

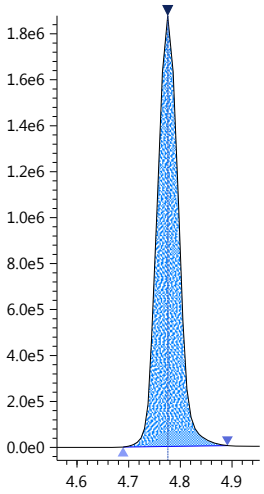
Q 467.80>423.00 (-) 1.88e6



PFNA-13C_IS

Conc 5.0000
RT 4.776 Area 5388603

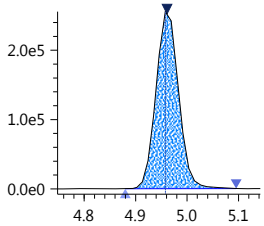
ISTD 467.80>423.00 (-) 1.88e6



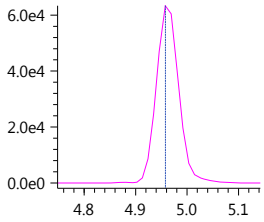
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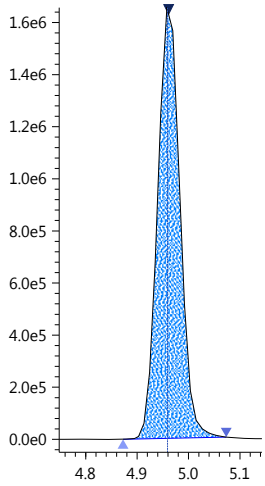
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Conc 0.9891
RT 4.961 Area 782287
R#1 24.68 (0.00)
Q 513.00>468.80 (-) 2.56e5



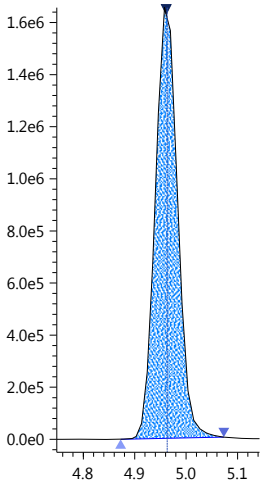
R1 513.00>219.10 (-) 6.34e4



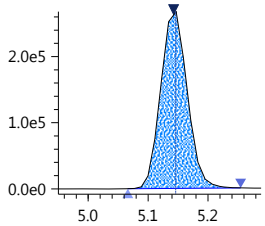
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Conc 4.3573
RT 4.961 Area 5014860
Q 514.80>469.95 (-) 1.66e6



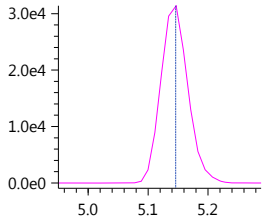
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Conc 5.0000
RT 4.961 Area 5014860
ISTD 514.80>469.95 (-) 1.66e6



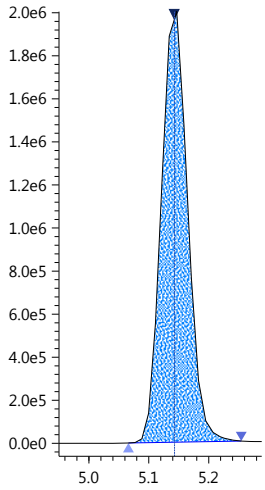
PFUnA
Conc 1.0120
RT 5.143 Area 827237
R#1 11.76 (0.00)
Q 563.00>518.90 (-) 2.68e5



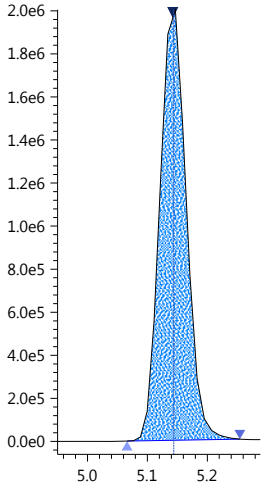
R1 563.00>219.00 (-) 3.14e4



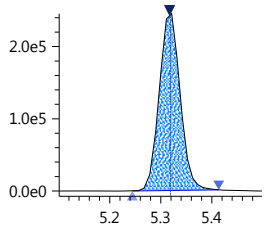
PFUnA-13C
Conc 4.7564
RT 5.142 Area 6152717
Q 564.80>519.95 (-) 2.01e6



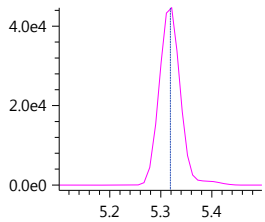
PFUnA-13C_IS
Conc 5.0000
RT 5.142 Area 6152717
ISTD 564.80>519.95 (-) 2.01e6



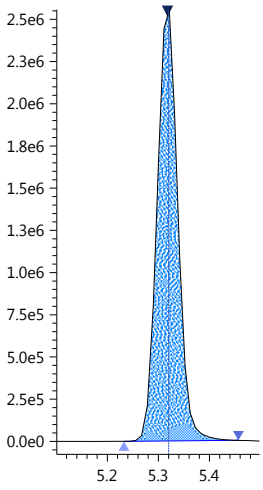
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Conc 0.9614
RT 5.317 Area 697976
R#1 18.13 (0.00)
Q 613.05>569.00 (-) 2.46e5



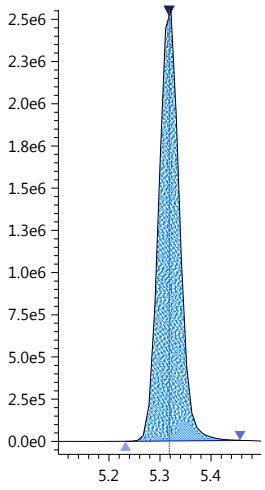
R1 613.05>169.00 (-) 4.46e4



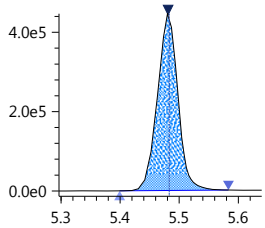
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Conc 4.5886
RT 5.318 Area 7203251
Q 614.80>569.95 (-) 2.56e6



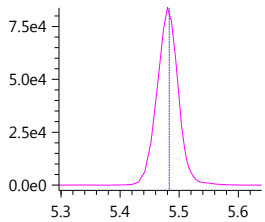
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Conc 5.0000
RT 5.318 Area 7203251
ISTD 614.80>569.95 (-) 2.56e6



PFTrDA
Conc 0.9751
RT 5.481 Area 1071859
R#1 18.86 (0.00)
Q 663.00>618.90 (-) 4.47e5



R1 662.90>169.00 (-) 8.39e4



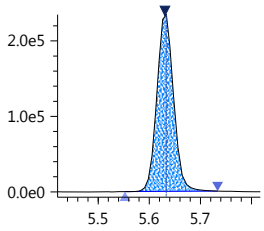
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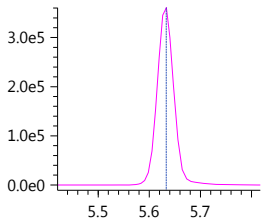
PFTeDA

Conc 1.0327
RT 5.631 Area 534430
R#1 154.21 (0.00)

Q 713.40>669.00 (-) 2.35e5



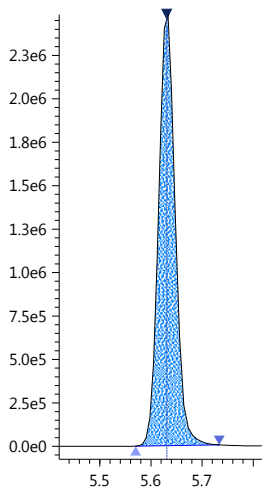
R1 713.40>169.10 (-) 3.61e5



PFTeDA-13C

Conc 4.5273
RT 5.631 Area 5641406

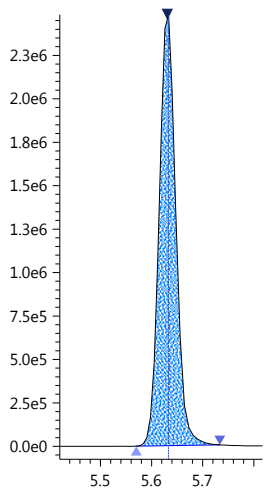
Q 714.70>669.90 (-) 2.48e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.631 Area 5641406

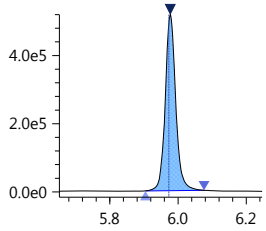
ISTD 714.70>669.90 (-) 2.48e6



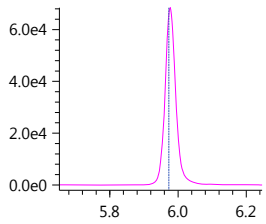
PFHxDA

Conc 1.0072
RT 5.977 Area 1100867
R#1 12.88 (0.00)

Q 813.00>769.05 (-) 5.20e5



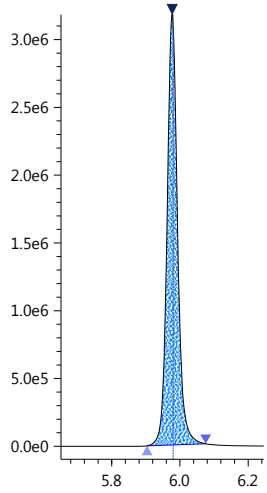
R1 813.00>218.95 (-) 6.84e4



13C-PFHxDA

Conc 4.2467
RT 5.977 Area 6762952

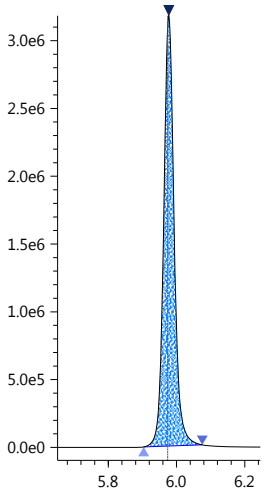
Q 815.00>770.05 (-) 3.18e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.977 Area 6762952

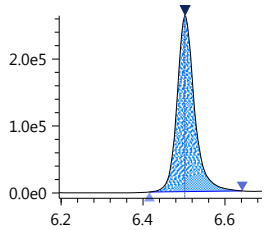
ISTD 815.00>770.05 (-) 3.18e6



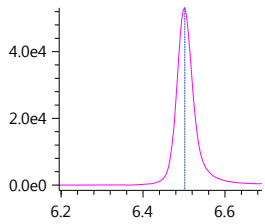
PFODA

Conc 0.9867
RT 6.502 Area 776549
R#1 20.16 (0.00)

Q 913.00>868.85 (-) 2.65e5



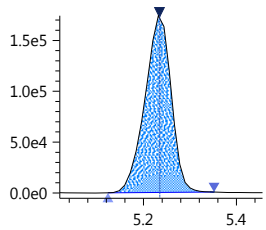
R1 913.00>169.00 (-) 5.31e4



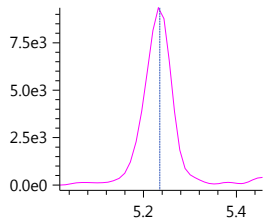
FOSA

Conc 0.9699
RT 5.234 Area 681798
R#1 5.33 (0.00)

Q 498.20>78.00 (-) 1.74e5



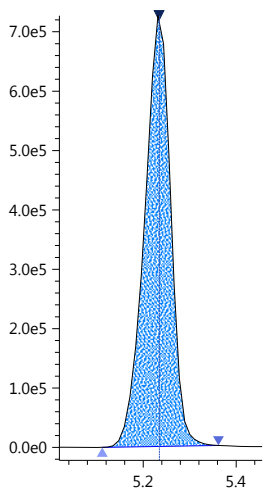
R1 498.20>64.10 (-) 9.34e3



FOSA-13C

Conc 4.1843
RT 5.234 Area 2844844

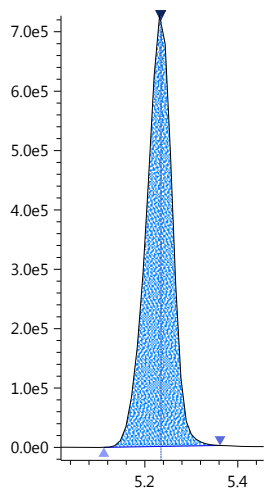
Q 506.00>78.05 (-) 7.27e5



FOSA-13C_IS

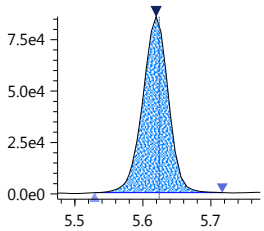
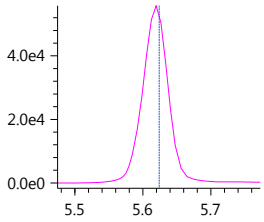
Conc 5.0000
RT 5.234 Area 2844844

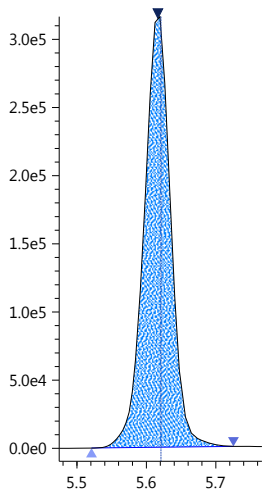
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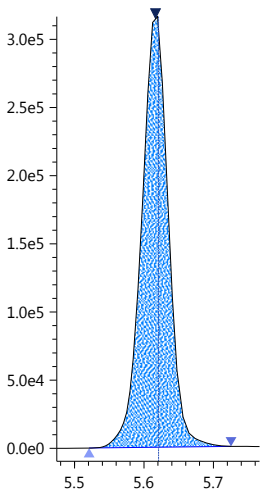


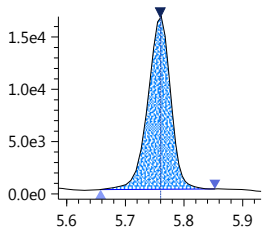
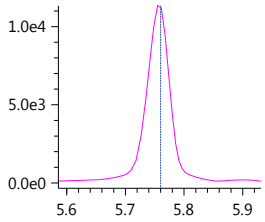
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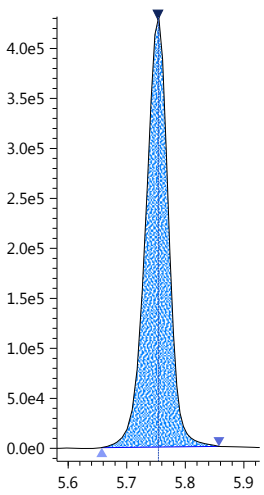
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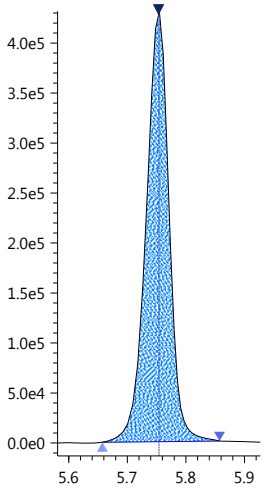
N-MeFOSA
Conc 0.9355
RT 5.620 Area 225541
R#1 65.02 (0.00)
Q 512.00>169.10 (-) 8.62e4

R1 512.00>219.00 (-) 5.58e4


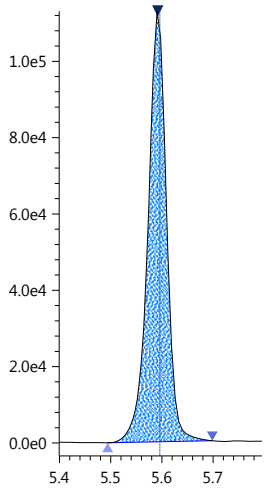
N-MeFOSA-d3
Conc 4.0789
RT 5.617 Area 847086
Q 514.90>168.90 (-) 3.17e5


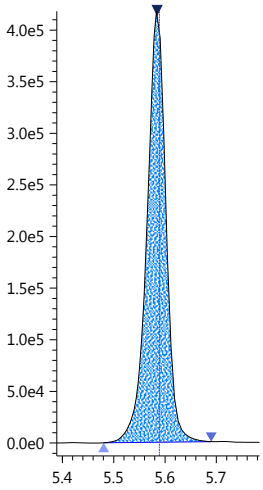
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Conc 5.0000
RT 5.617 Area 847086
ISTD 514.90>168.90 (-) 3.17e5


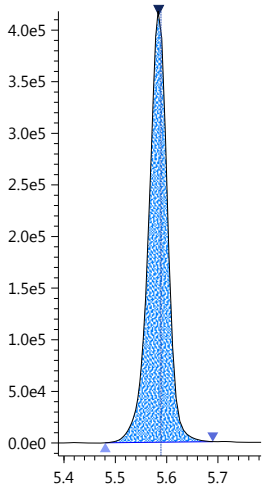
N-EtFOSA
Conc 1.0014
RT 5.759 Area 44692
R#1 66.80 (0.00)
Q 526.90>169.10 (-) 1.70e4

R1 526.90>219.00 (-) 1.13e4


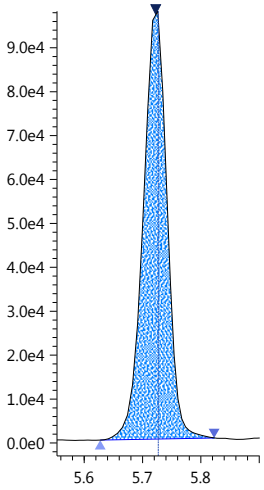
N-EtFOSA-d9
Conc 4.1303
RT 5.753 Area 1172210
Q 530.90>169.15 (-) 4.32e5


N-EtFOSA-d9_IS
Conc 5.0000
RT 5.753 Area 1172210
ISTD 530.90>169.15 (-) 4.32e5


N-MeFOSE
Conc 1.0351
RT 5.592 Area 284337
Q 616.00>59.00 (-) 1.13e5


N-MeFOSE-d7
Conc 4.2734
RT 5.585 Area 1076072
Q 622.70>59.10 (-) 4.18e5


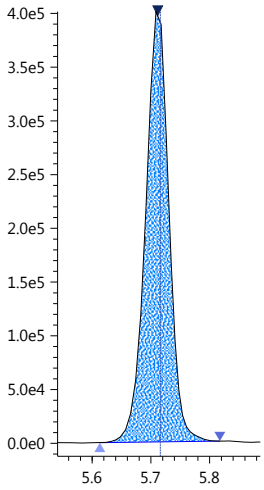
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Conc 5.0000
RT 5.585 Area 1076072
ISTD 622.70>59.10 (-) 4.18e5


N-EtFOSE
Conc 0.9537
RT 5.723 Area 277541
Q 630.00>58.90 (-) 9.83e4


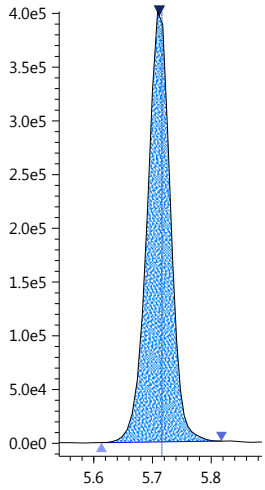
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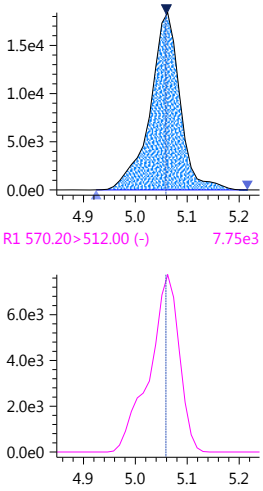
N-EtFOSE-d9
Conc 4.3250
RT 5.712 Area 1110278
Q 638.70>59.10 (-) 4.02e5



N-EtFOSE-d9_IS
Conc 5.0000
RT 5.712 Area 1110278
ISTD 638.70>59.10 (-) 4.02e5

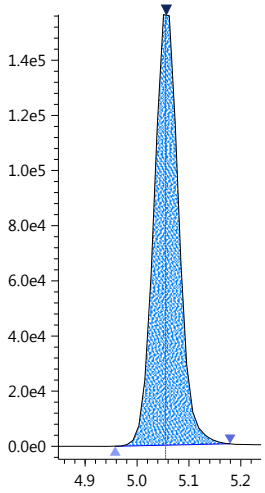


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Conc 1.0708
RT 5.060 Area 73629
R#1 42.02 (0.00)
Q 570.20>419.00 (-) 1.84e4

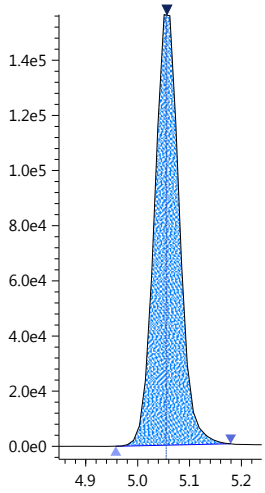


R1 570.20>512.00 (-) 7.75e3

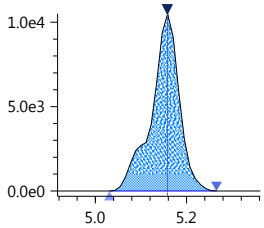
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Conc 4.1254
RT 5.056 Area 523988
Q 572.80>419.05 (-) 1.57e5



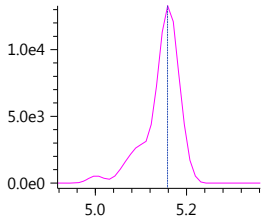
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.056 Area 523988
ISTD 572.80>419.05 (-) 1.57e5



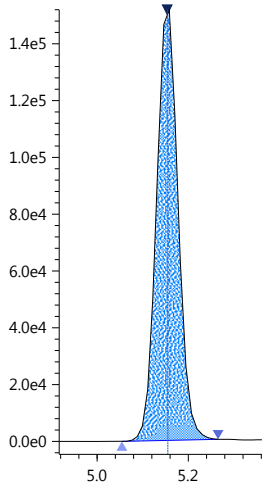
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Conc 0.9393
RT 5.158 Area 44223
R#1 125.27 (0.00)
Q 584.20>418.95 (-) 1.05e4



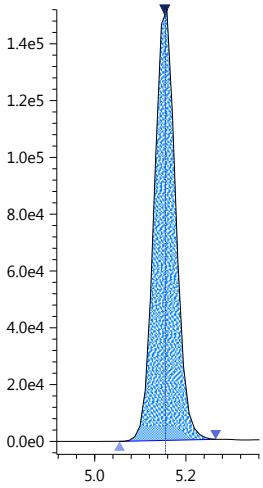
R1 584.20>526.10 (-) 1.33e4



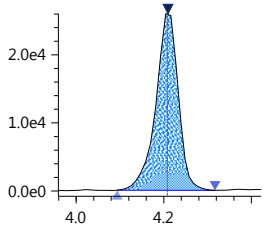
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Conc 4.3282
RT 5.154 Area 501969
Q 588.80>419.00 (-) 1.52e5



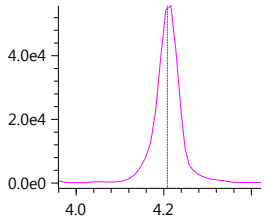
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Conc 5.0000
RT 5.154 Area 501969
ISTD 588.80>419.00 (-) 1.52e5



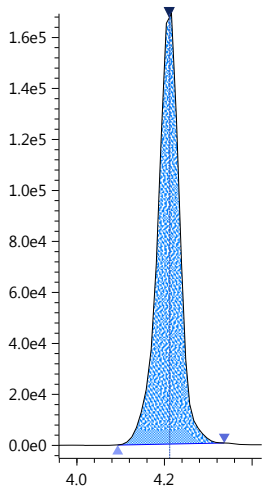
4_2-FTS_1
Conc 0.9015
RT 4.210 Area 92959
R#1 205.83 (0.00)
Q 327.00>307.05 (-) 2.60e4



R1 327.00>81.10 (-) 5.57e4



4_2-FTS-13C
Conc 4.1234
RT 4.211 Area 593348
Q 328.80>309.05 (-) 1.69e5

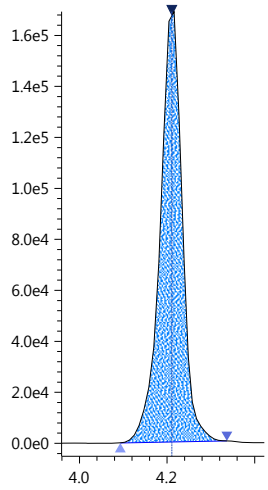


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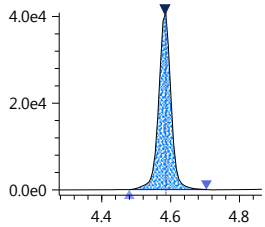
4_2-FTS-13C_IS
Conc 5.0000
RT 4.211 Area 593348

ISTD 328.80>309.05 (-) 1.69e5

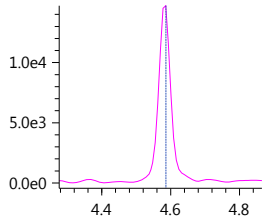


6_2-FTS_1
Conc 0.9534
RT 4.583 Area 101314
R#1 36.88 (0.00)

Q 427.00>407.00 (-) 4.09e4

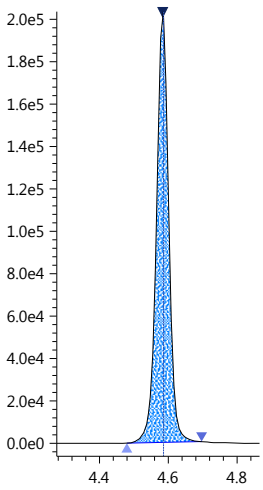


R1 427.00>80.90 (-) 1.47e4



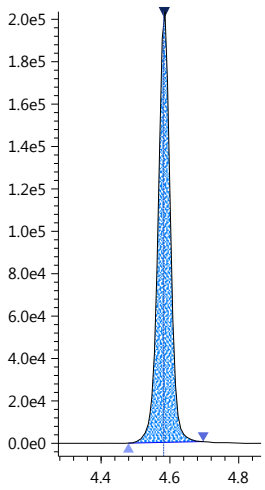
6_2-FTS-13C
Conc 4.1474
RT 4.584 Area 503865

Q 428.90>409.00 (-) 2.04e5



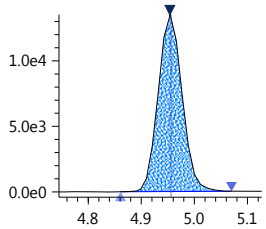
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Conc 5.0000
RT 4.584 Area 503865

ISTD 428.90>409.00 (-) 2.04e5

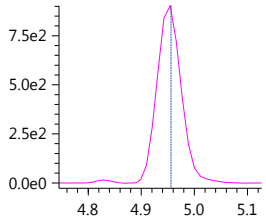


8_2-FTS_1
Conc 0.8842
RT 4.954 Area 42269
R#1 6.67 (0.00)

Q 527.10>506.90 (-) 1.35e4

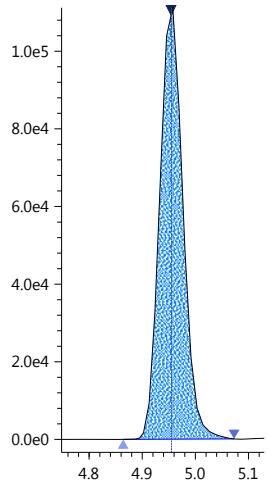


R1 527.20>487.00 (-) 9.03e2



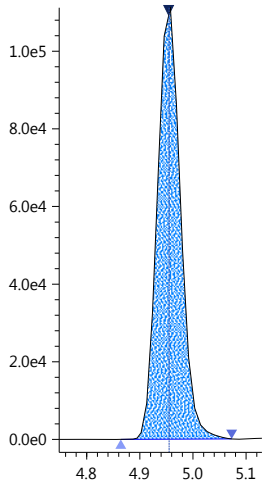
8_2-FTS-13C
Conc 4.2762
RT 4.954 Area 339390

Q 528.80>509.00 (-) 1.11e5



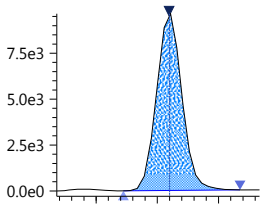
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Conc 5.0000
RT 4.954 Area 339390

ISTD 528.80>509.00 (-) 1.11e5

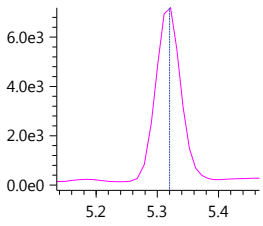


10_2-FtS_1
Conc 0.9444
RT 5.319 Area 27741
R#1 72.59 (0.00)

Q 627.00>606.95 (-) 9.65e3

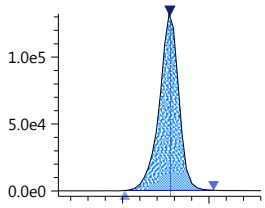


R1 627.00>81.25 (-) 7.19e3

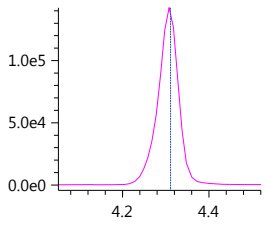


HPFO_DA
Conc 1.0458
RT 4.310 Area 412505
R#1 107.63 (0.00)

Q 329.00>169.00 (-) 1.32e5

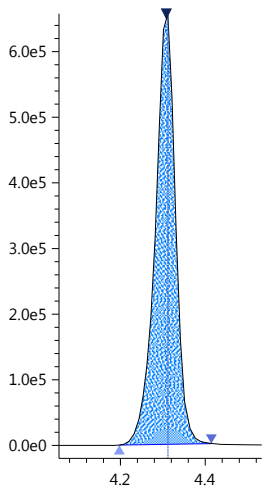


R1 329.00>285.10 (-) 1.42e5



HFPO_DA-13C
Conc 4.1685
RT 4.308 Area 2185973

Q 332.00>286.80 (-) 6.58e5



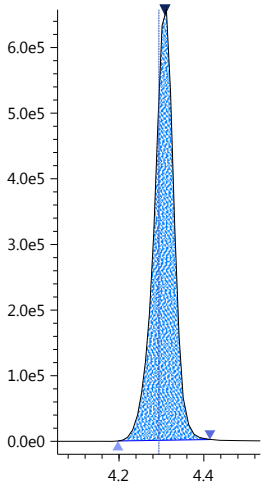
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.308 Area 2185973

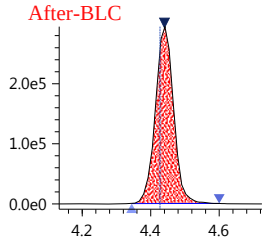
ISTD 332.00>286.80 (-) 6.58e5



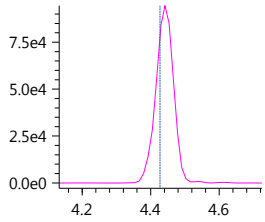
ADONA

Conc 0.8941
RT 4.440 Area 1086020
R#1 31.92 (0.00)

Q 377.00>251.00 (-) 2.95e5



R1 377.00>84.95 (-) 9.44e4



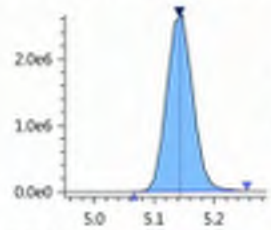
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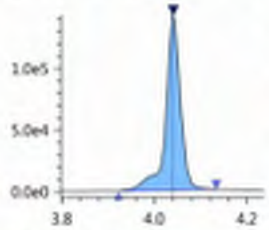
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Date acquired: 9/17/2019 4:23:27 PM
Acquired by: System Administrator
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Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

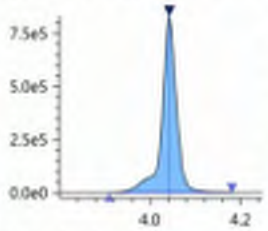
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Conc 5.0000
RT 5.142 Area 8160781
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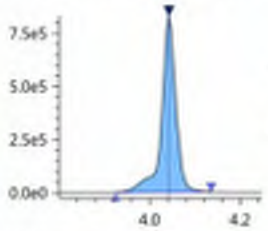
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Conc 0.8452
RT 4.041 Area 311909
Q 299.00>80.00 (-) 1.44e5



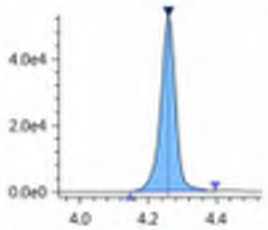
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RT 4.042 Area 1843990
Q 301.80>80.00 (-) 8.33e5



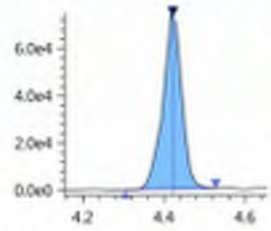
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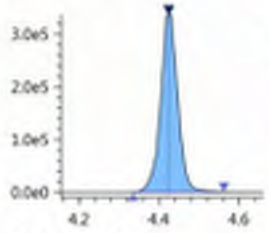
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Conc 0.7942
RT 4.260 Area 161159
Q 349.00>99.00 (-) 5.34e4



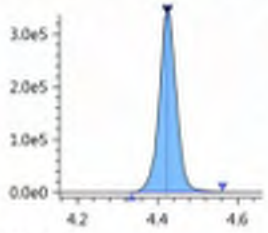
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RT 4.421 Area 243096
Q 399.00>80.00 (-) 7.50e4



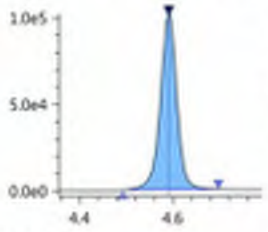
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Q 402.70>84.05 (-) 3.36e5



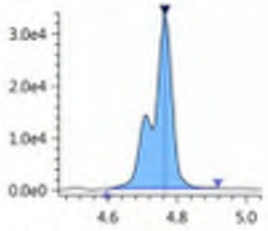
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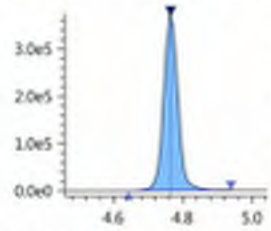
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Q 449.00>80.15 (-) 1.02e5



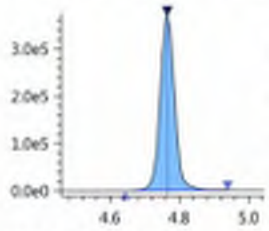
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RT 4.765 Area 136730
Q 499.00>80.00 (-) 3.40e4



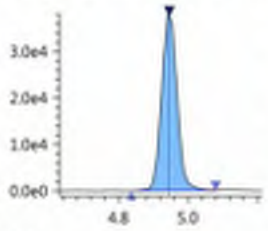
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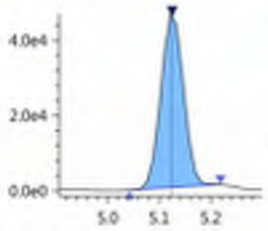
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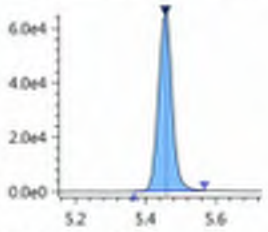
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Q 549.00>99.00 (-) 3.82e4



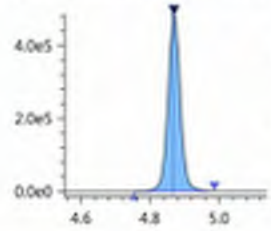
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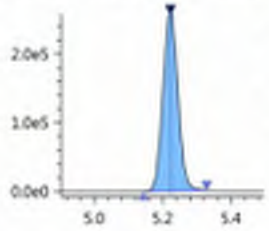
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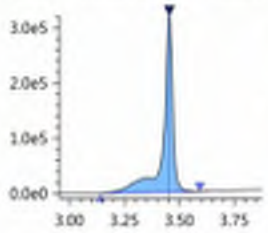
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Conc 1.0864
RT 4.869 Area 1219989
Q 531.00>351.00 (-) 4.86e5



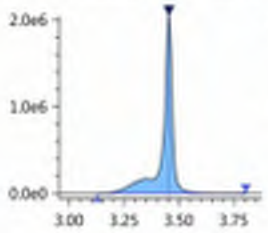
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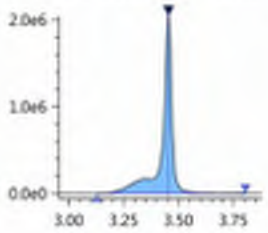
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Conc 1.0280
RT 3.454 Area 971294
Q 213.00>169.10 (-) 3.21e5



PFBA-13C
Conc 4.2046
RT 3.453 Area 6283593
Q 216.90>172.15 (-) 2.04e6



PFBA-13C_IS
Conc 5.0000
RT 3.453 Area 6283593
ISTD 216.90>172.15 (-) 2.04e6

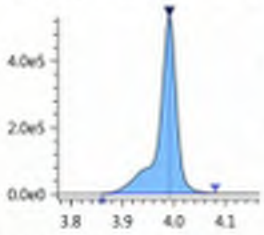


Manual Integration - Before

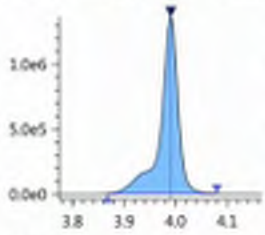
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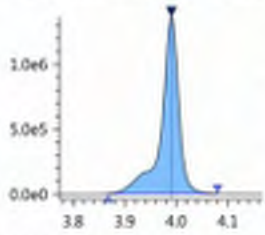
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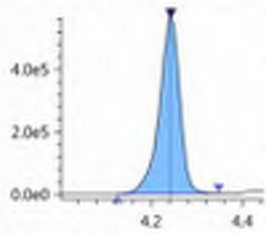
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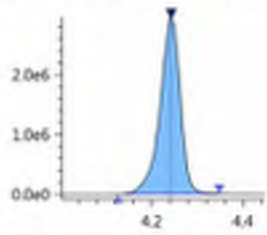
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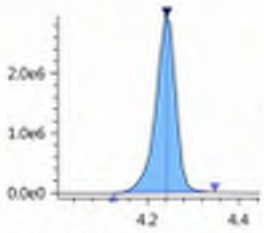
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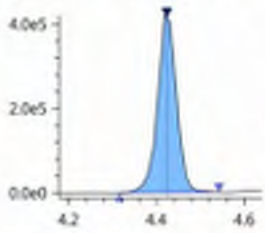
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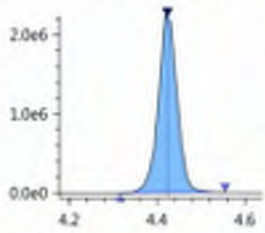
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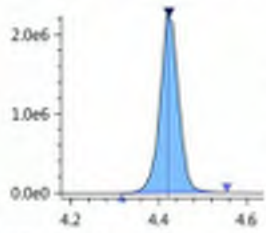
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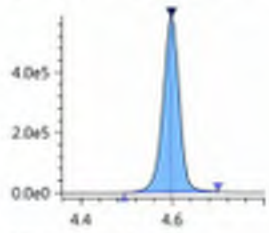
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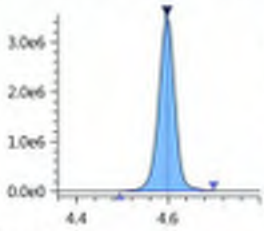
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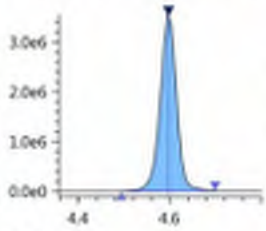
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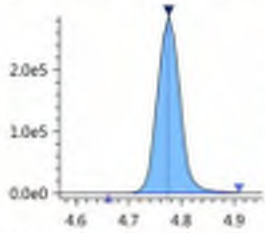
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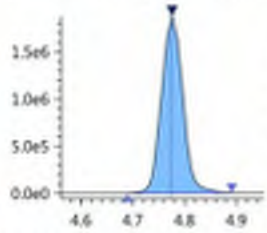
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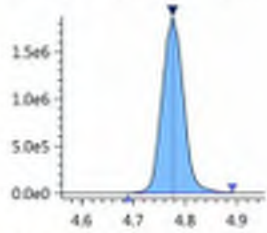
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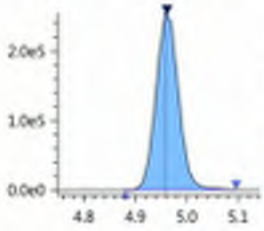
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Q 467.80>423.00 (-) 1.88e6



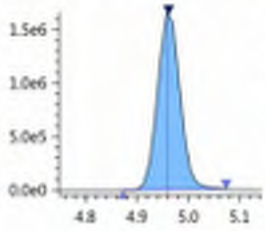
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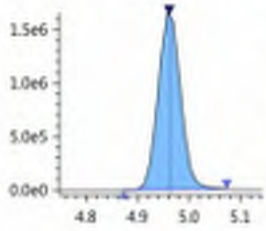
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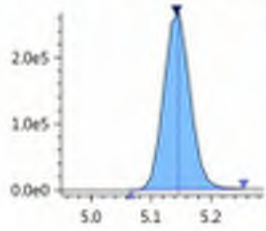
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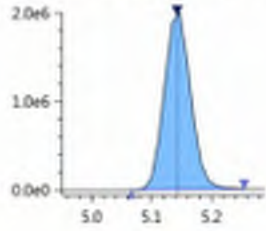
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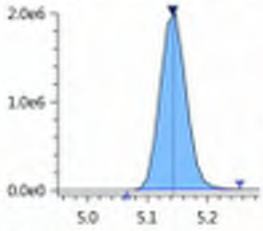
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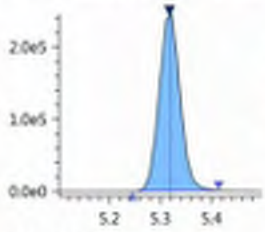
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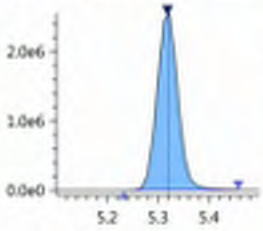
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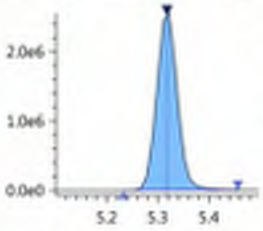
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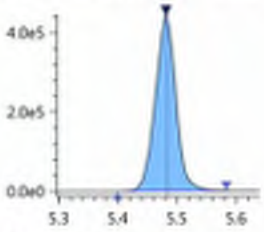
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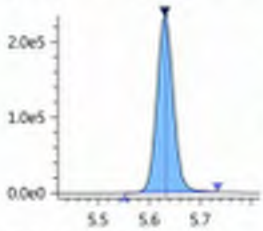
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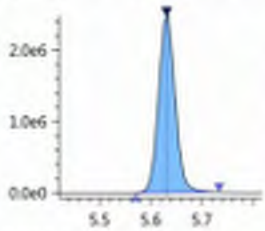
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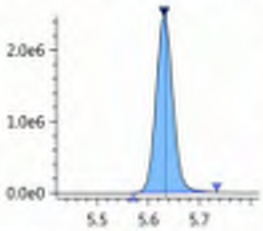
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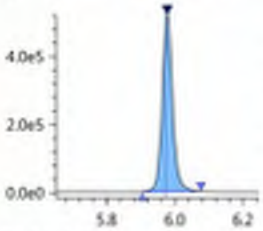
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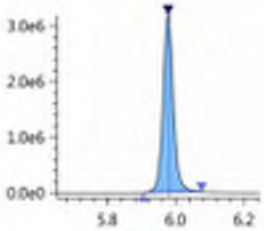
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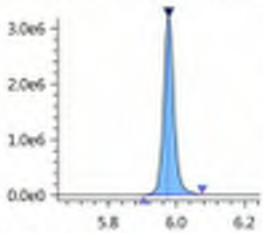
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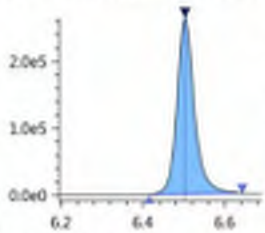
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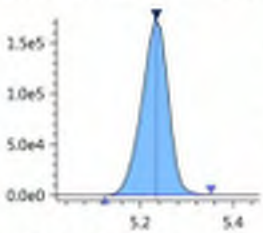
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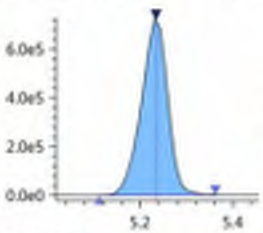
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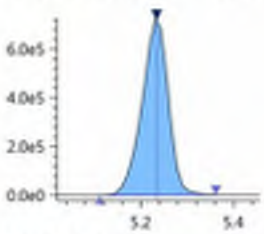
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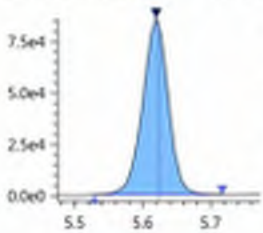
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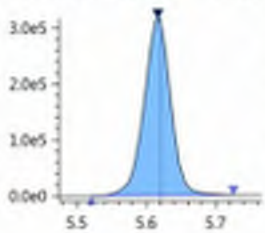
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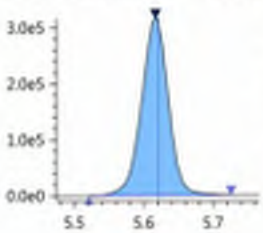
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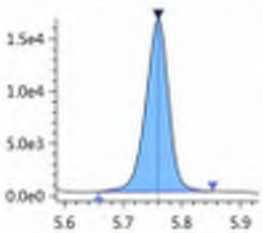
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RT 5.617 Area 847086
Q 514.90>168.90 (-) 3.17e5



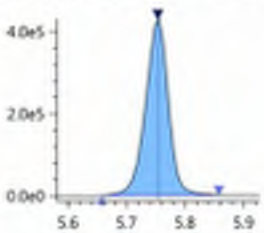
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ISTD 514.90>168.90 (-) 3.17e5



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RT 5.759 Area 44692
Q 526.90>169.10 (-) 1.70e4



N-EtFOSA-d9
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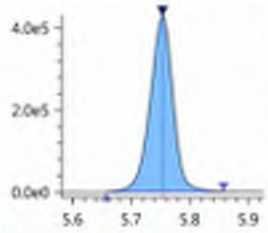


Manual Integration - Before

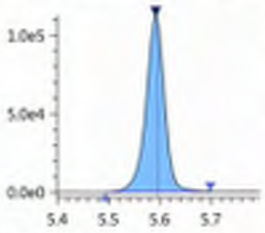
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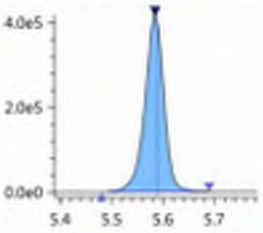
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RT 5.753 Area 1172210
ISTD 530.90>169.15 (-) 4.32e5



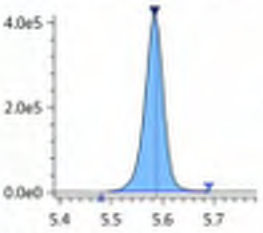
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Q 616.00>59.00 (-) 1.13e5



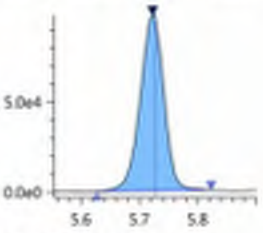
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RT 5.585 Area 1076072
Q 622.70>59.10 (-) 4.18e5



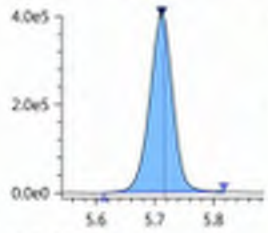
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.585 Area 1076072
ISTD 622.70>59.10 (-) 4.18e5



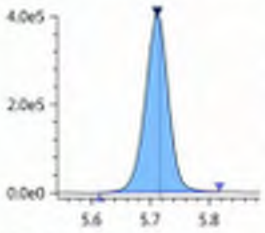
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Conc 0.9094
RT 5.723 Area 277541
Q 630.00>58.90 (-) 9.83e4



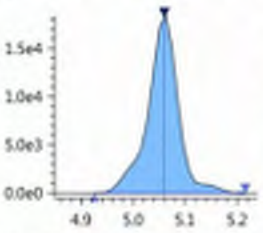
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Conc 4.3250
RT 5.712 Area 1110278
Q 638.70>59.10 (-) 4.02e5



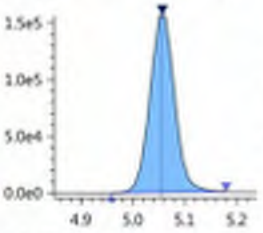
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Conc 5.0000
RT 5.712 Area 1110278
ISTD 638.70>59.10 (-) 4.02e5



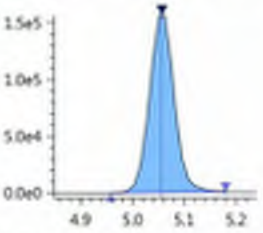
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Conc 0.9963
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Q 570.20>419.00 (-) 1.84e4



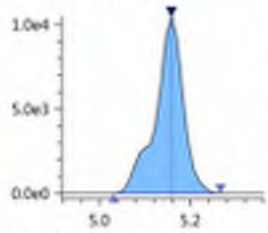
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Conc 4.1254
RT 5.056 Area 523988
Q 572.80>419.05 (-) 1.57e5



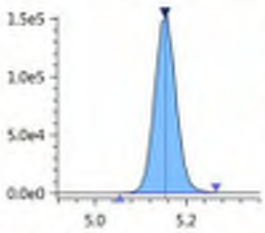
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Conc 5.0000
RT 5.056 Area 523988
ISTD 572.80>419.05 (-) 1.57e5



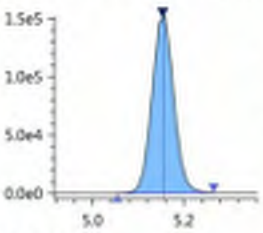
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RT 5.158 Area 44223
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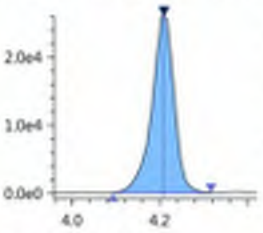
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Conc 4.3282
RT 5.154 Area 501969
Q 588.80>419.00 (-) 1.52e5



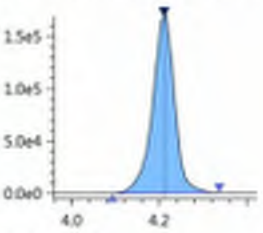
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.154 Area 501969
ISTD 588.80>419.00 (-) 1.52e5



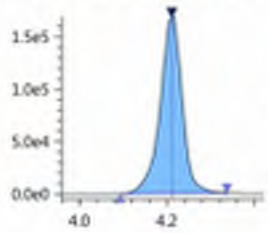
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Conc 0.9713
RT 4.210 Area 92959
Q 327.00>307.05 (-) 2.60e4



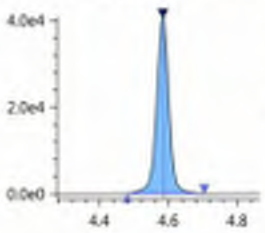
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Conc 3.8537
RT 4.211 Area 593348
Q 328.80>309.05 (-) 1.69e5



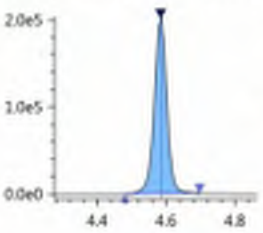
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RT 4.211 Area 593348
ISTD 328.80>309.05 (-) 1.69e5



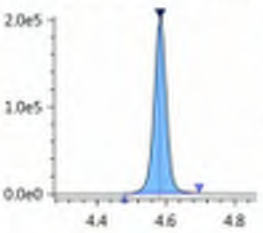
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Conc 0.9539
RT 4.583 Area 101314
Q 427.00>407.00 (-) 4.09e4



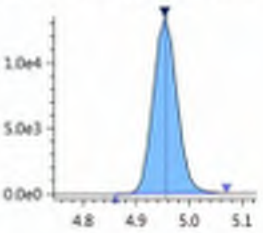
6_2-FTS-13C
Conc 4.1474
RT 4.584 Area 503865
Q 428.90>409.00 (-) 2.04e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.584 Area 503865
ISTD 428.90>409.00 (-) 2.04e5



8_2-FTS_1
Conc 0.8975
RT 4.954 Area 42269
Q 527.10>506.90 (-) 1.35e4



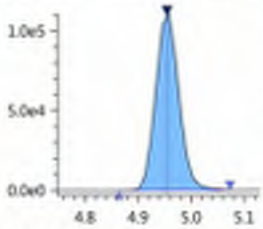
Manual Integration - Before

338 of 820

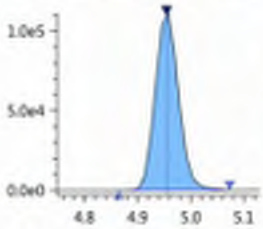
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Printed at 9/18/2019 8:09:22 AM

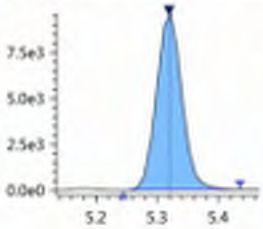
8_2-FTS-13C
Conc 4.2762
RT 4.954 Area 339390
Q 528.80>509.00 (-) 1.11e5



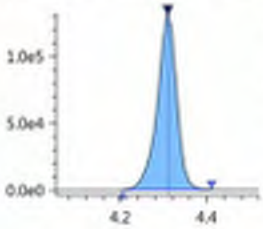
8_2-FTS-13C_IS
Conc 5.0000
RT 4.954 Area 339390
ISTD 528.80>509.00 (-) 1.11e5



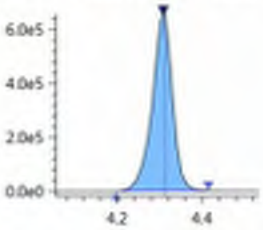
10_2-FtS_1
Conc 0.9544
RT 5.319 Area 27741
Q 627.00>606.95 (-) 9.65e3



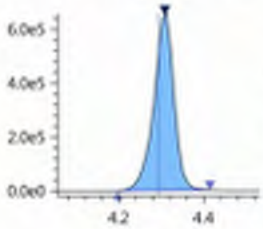
HPFO_DA
Conc 1.1360
RT 4.310 Area 412505
Q 329.00>169.00 (-) 1.32e5



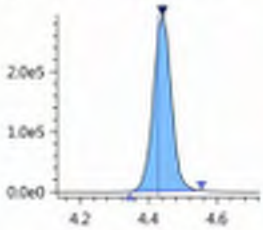
HFPO_DA-13C
Conc 3.6869
RT 4.308 Area 2185973
Q 332.00>286.80 (-) 6.58e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.308 Area 2185973
ISTD 332.00>286.80 (-) 6.58e5



ADONA
Conc 0.8888
RT 4.440 Area 1071588
Q 377.00>251.00 (-) 2.95e5



Insight Report

Printed at 9/18/2019 9:25:42 AM

190917_010

Sample ID: 5.0 PPB ICAL
Date acquired: 9/17/2019 4:33:58 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_010.lcd
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.144	6722508	6722508	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.042	1537409	1823492	2	4.1538	ng/mL	4.4368
PFBS-13C	Auto	4.044	1852070	6722508	1	5.9274	ng/mL	5.0000
PFBS-13C_IS	Auto	4.044	1823492	1823492	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.262	909747	1823492	2	4.7499	ng/mL	4.7046
PFHxS_1	Auto	4.419	871697	816579	3	4.4884	ng/mL	4.5654
PFHxS-18O	Auto	4.425	816579	6722508	1	5.2802	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.425	816579	816579	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.593	1140232	816579	3	4.5321	ng/mL	4.7672
PFOS_1	Auto	4.767	784727	1348276	4	4.2417	ng/mL	4.6461
PFOS-13C	Auto	4.767	1348276	6722508	1	5.9817	ng/mL	5.0000
PFOS-13C_IS	Auto	4.767	1348276	1348276	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.949	687133	1348276	4	4.8191	ng/mL	4.8079
PFDS_1	Auto	5.127	828438	1348276	4	4.4735	ng/mL	4.8233
PFDOS	Auto	5.459	810482	1348276	4	3.5902	ng/mL	4.8478
9Cl-PF3ONS	Auto	4.873	5419558	2350855	26	4.4875	ng/mL	4.6662
11Cl-PF3OUdS	Auto	5.224	3482028	2350855	26	4.2012	ng/mL	4.7160
PFBA	Auto	3.457	4910295	6333162	5	5.0187	ng/mL	5.0000
PFBA-13C	Auto	3.456	6333162	6722508	1	5.1925	ng/mL	5.0000
PFBA-13C_IS	Auto	3.456	6333162	6333162	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.993	5842917	3225365	6	5.0257	ng/mL	5.0000
PFPeA-13C	Auto	3.992	3225365	6722508	1	5.2052	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.992	3225365	3225365	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.244	7475490	7791072	7	5.0005	ng/mL	5.0000
PFHxA-13C	Auto	4.244	7791072	6722508	1	5.2163	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.244	7791072	7791072	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.424	5462658	5506410	8	5.0772	ng/mL	5.0000
PFHpA-13C	Auto	4.424	5506410	6722508	1	5.4509	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.424	5506410	5506410	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.599	7288977	8754027	9	5.0495	ng/mL	5.0000
PFOA-13C	Auto	4.599	8754027	6722508	1	5.3791	ng/mL	5.0000
PFOA-13C_IS	Auto	4.599	8754027	8754027	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.779	4947459	6222168	10	4.8747	ng/mL	5.0000
PFNA-13C	Auto	4.779	6222168	6722508	1	5.4289	ng/mL	5.0000
PFNA-13C_IS	Auto	4.779	6222168	6222168	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.964	4334389	5574279	11	4.9796	ng/mL	5.0000
PFDA-13C	Auto	4.964	5574279	6722508	1	5.8796	ng/mL	5.0000
PFDA-13C_IS	Auto	4.964	5574279	5574279	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.145	3468094	5059137	12	5.2501	ng/mL	5.0000
PFUnA-13C	Auto	5.145	5059137	6722508	1	4.7477	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.145	5059137	5059137	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.319	3437361	6353402	13	5.2560	ng/mL	5.0000
PFDoA-13C	Auto	5.320	6353402	6722508	1	4.9131	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.320	6353402	6353402	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.485	4988114	5260321	14	4.8836	ng/mL	5.0000
PFTeDA	Auto	5.634	2116366	5260321	14	4.8674	ng/mL	5.0000
PFTeDA-13C	Auto	5.635	5260321	6722508	1	5.1247	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.635	5260321	5260321	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.978	5283163	6831631	15	5.0439	ng/mL	5.0000
13C-PFHxDA	Auto	5.978	6831631	6722508	1	5.2076	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.978	6831631	6831631	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.505	3907279	6831631	15	4.9146	ng/mL	5.0000
FOSA	Auto	5.235	3197114	2768167	16	4.6739	ng/mL	5.0000
FOSA-13C	Auto	5.236	2768167	6722508	1	4.9426	ng/mL	5.0000
FOSA-13C_IS	Auto	5.236	2768167	2768167	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.624	1135436	901444	17	4.4257	ng/mL	5.0000
N-MeFOSA-d3	Auto	5.621	901444	6722508	1	5.2693	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.621	901444	901444	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.762	228954	1239761	18	4.8504	ng/mL	5.0000
N-EtFOSA-d9	Auto	5.756	1239761	6722508	1	5.3029	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.756	1239761	1239761	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.595	1324034	1054156	19	4.9202	ng/mL	5.0000
N-MeFOSE-d7	Auto	5.587	1054156	6722508	1	5.0820	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.587	1054156	1054156	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.726	1431281	1101789	20	4.9559	ng/mL	5.0000
N-EtFOSE-d9	Auto	5.715	1101789	6722508	1	5.2102	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.715	1101789	1101789	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.063	342095	530764	21	4.9118	ng/mL	5.0000

Insight Report

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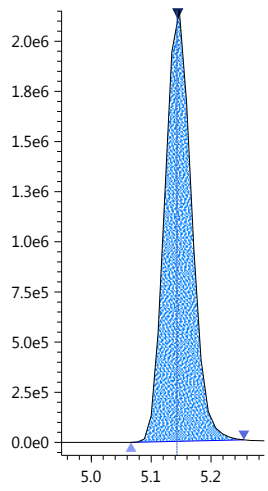
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.059	530764	6722508	1	5.0727	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.059	530764	530764	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.160	249640	495044	22	5.3768	ng/mL	5.0000
N-EtFOSAA-d5	Auto	5.155	495044	6722508	1	5.1817	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.155	495044	495044	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.214	403539	593129	23	3.9147	ng/mL	4.6861
4_2-FTS-13C	Auto	4.213	593129	6722508	1	5.0038	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.213	593129	593129	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.586	462378	481055	24	4.5573	ng/mL	4.7558
6_2-FTS-13C	Auto	4.586	481055	6722508	1	4.8068	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.586	481055	481055	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.958	240766	313785	25	5.4475	ng/mL	4.8002
8_2-FTS-13C	Auto	4.958	313785	6722508	1	4.7995	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.958	313785	313785	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.322	136675	313785	25	5.0325	ng/mL	4.8310
HPFO_DA	Auto	4.311	2239956	2350855	26	5.2805	ng/mL	5.0000
HFPO_DA-13C	Auto	4.312	2350855	6722508	1	5.4420	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.312	2350855	2350855	26	5.0000	ng/mL	5.0000
ADONA	M	4.444	6936718	2350855	26	5.3101	ng/mL	4.7253

13C7-PFUnDA_IS

Conc 5.0000
RT 5.144 Area 6722508

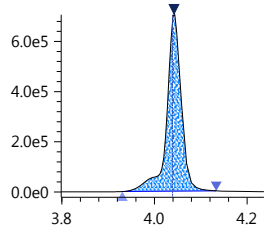
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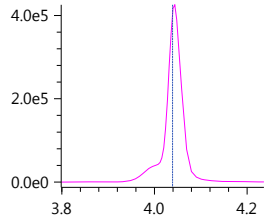
PFBS_1

Conc 4.1538
RT 4.042 Area 1537409
R#1 59.10 (0.00)

Q 299.00>80.00 (-) 7.07e5



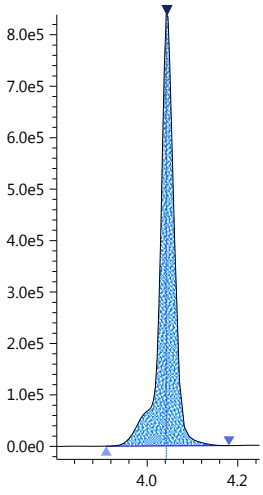
R1 298.80>99.00 (-) 4.26e5



PFBS-13C

Conc 5.9274
RT 4.044 Area 1852070

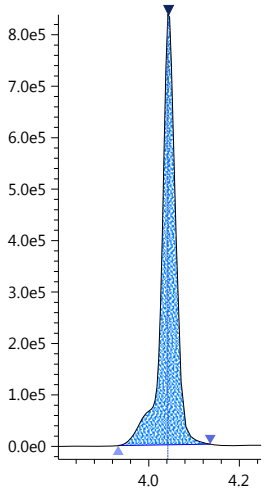
Q 301.80>80.00 (-) 8.39e5



PFBS-13C_IS

Conc 5.0000
RT 4.044 Area 1823492

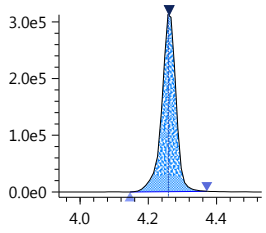
ISTD 301.80>80.00 (-) 8.39e5



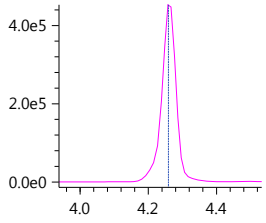
PFPeS

Conc 4.7499
RT 4.262 Area 909747
R#1 144.75 (0.00)

Q 349.00>99.00 (-) 3.13e5



R1 349.00>79.95 (-) 4.53e5

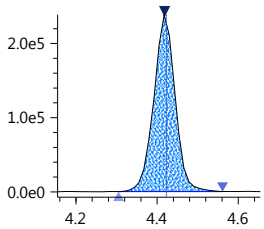


Insight Report

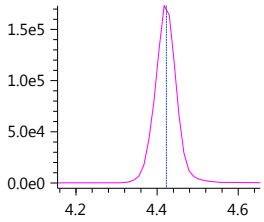
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PFHxS_1
Conc 4.4884
RT 4.419 Area 871697
R#1 72.04 (0.00)

Q 399.00>80.00 (-) 2.39e5

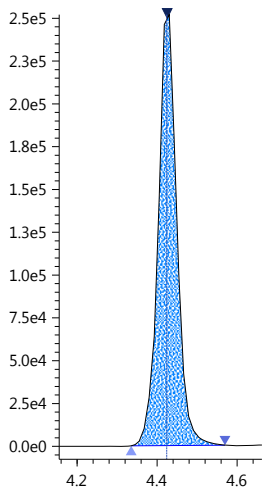


R1 399.00>99.00 (-) 1.73e5



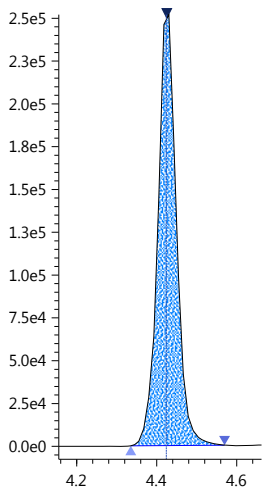
PFHxS-18O
Conc 5.2802
RT 4.425 Area 816579

Q 402.70>84.05 (-) 2.52e5



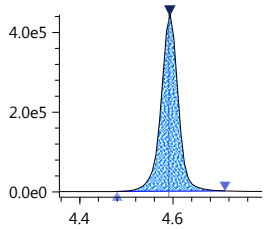
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Conc 5.0000
RT 4.425 Area 816579

ISTD 402.70>84.05 (-) 2.52e5

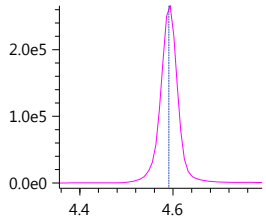


PFHpS_1
Conc 4.5321
RT 4.593 Area 1140232
R#1 59.79 (0.00)

Q 449.00>80.15 (-) 4.45e5

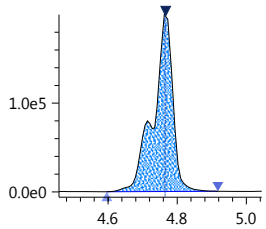


R1 449.00>99.20 (-) 2.66e5

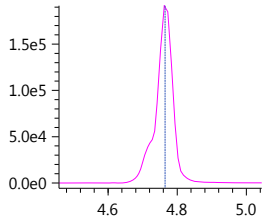


PFOS_1
Conc 4.2417
RT 4.767 Area 784727
R#1 95.83 (0.00)

Q 499.00>80.00 (-) 2.00e5

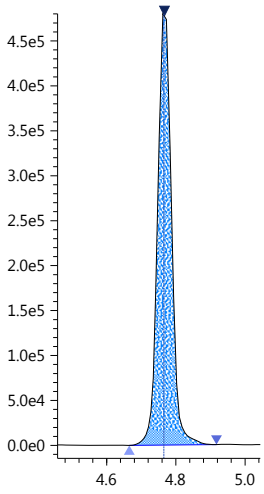


R1 499.00>99.00 (-) 1.92e5



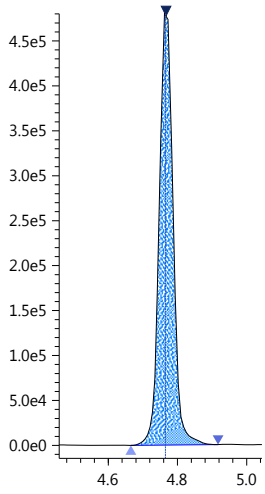
PFOS-13C
Conc 5.9817
RT 4.767 Area 1348276

Q 502.80>80.05 (-) 4.80e5



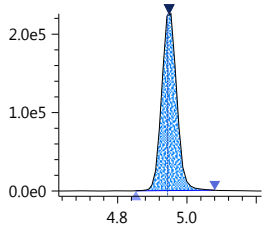
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Conc 5.0000
RT 4.767 Area 1348276

ISTD 502.80>80.05 (-) 4.80e5

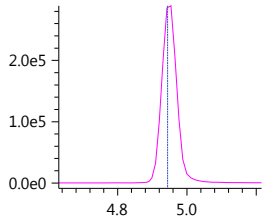


PFNS
Conc 4.8191
RT 4.949 Area 687133
R#1 127.95 (0.00)

Q 549.00>99.00 (-) 2.26e5

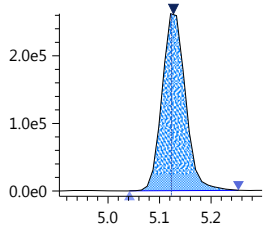


R1 549.00>79.95 (-) 2.89e5

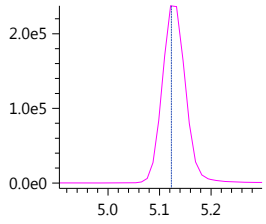


PFDS_1
Conc 4.4735
RT 5.127 Area 828438
R#1 91.00 (0.00)

Q 599.00>79.90 (-) 2.62e5

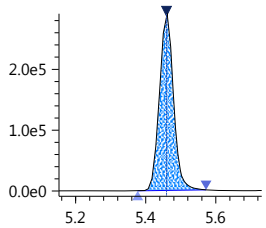


R1 599.00>99.10 (-) 2.37e5

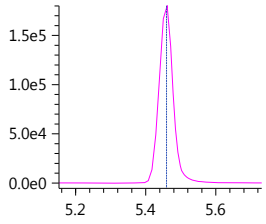


PFDOS
Conc 3.5902
RT 5.459 Area 810482
R#1 61.74 (0.00)

Q 699.00>79.95 (-) 2.91e5



R1 699.00>99.05 (-) 1.80e5



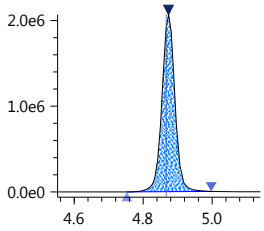
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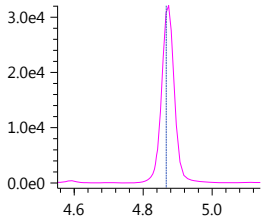
9Cl-PF3ONS

Conc 4.4875
RT 4.873 Area 5419558
R#1 1.55 (0.00)

Q 531.00>351.00 (-) 2.07e6



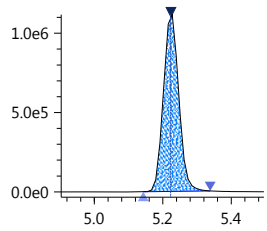
R1 531.00>98.90 (-) 3.21e4



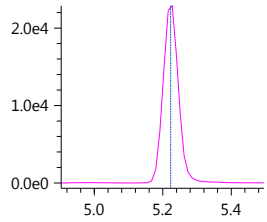
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Conc 4.2012
RT 5.224 Area 3482028
R#1 2.10 (0.00)

Q 631.00>451.05 (-) 1.12e6



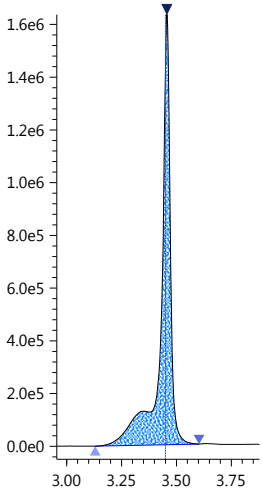
R1 631.00>98.90 (-) 2.29e4



PFBA

Conc 5.0187
RT 3.457 Area 4910295

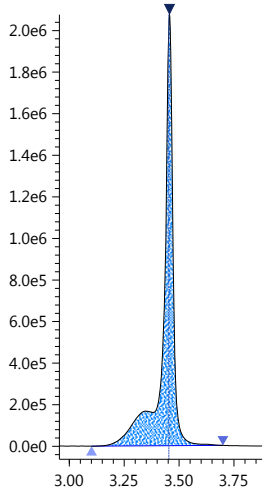
Q 213.00>169.10 (-) 1.64e6



PFBA-13C

Conc 5.1925
RT 3.456 Area 6333162

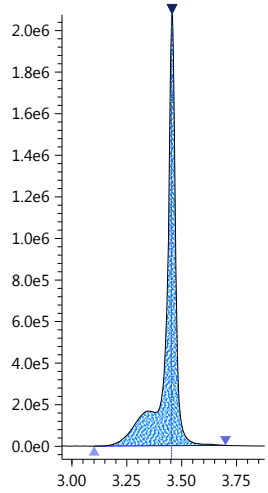
Q 216.90>172.15 (-) 2.08e6



PFBA-13C_IS

Conc 5.0000
RT 3.456 Area 6333162

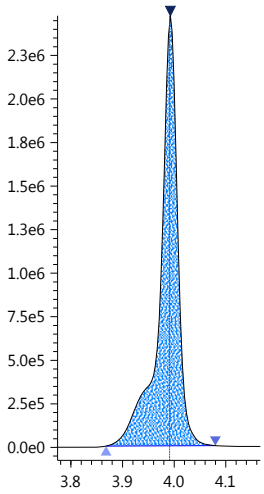
ISTD 216.90>172.15 (-) 2.08e6



PFPeA

Conc 5.0257
RT 3.993 Area 5842917

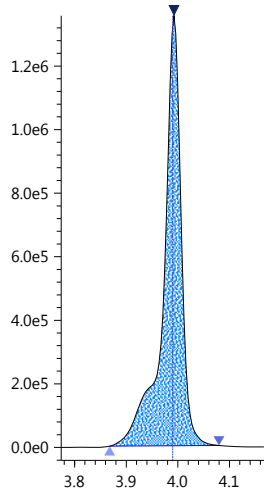
Q 263.05>219.10 (-) 2.48e6



PFPeA-13C

Conc 5.2052
RT 3.992 Area 3225365

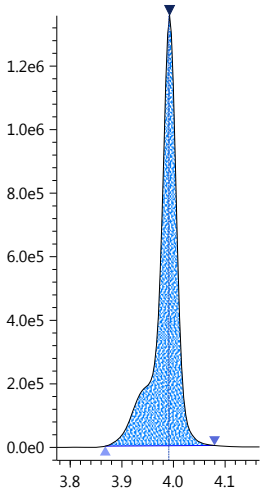
Q 267.90>223.00 (-) 1.36e6



PFPeA-13C_IS

Conc 5.0000
RT 3.992 Area 3225365

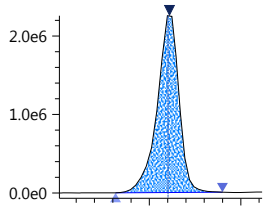
ISTD 267.90>223.00 (-) 1.36e6



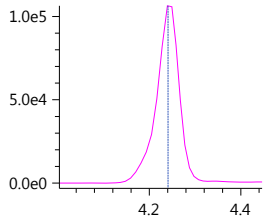
PFHxA

Conc 5.0005
RT 4.244 Area 7475490
R#1 4.71 (0.00)

Q 313.00>269.00 (-) 2.26e6



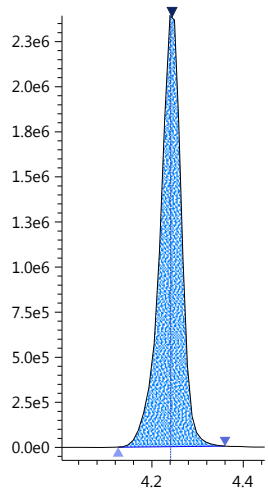
R1 313.00>119.10 (-) 1.06e5



PFHxA-13C

Conc 5.2163
RT 4.244 Area 7791072

Q 314.90>270.10 (-) 2.39e6



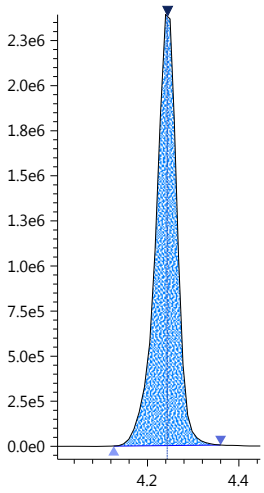
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RT 4.244 Area 7791072

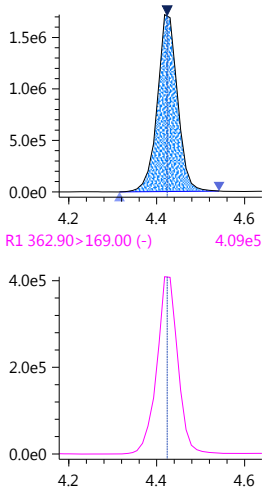
ISTD 314.90>270.10 (-) 2.39e6



PFHpA

Conc 5.0772
RT 4.424 Area 5462658
R#1 24.02 (0.00)

Q 362.90>319.00 (-) 1.72e6

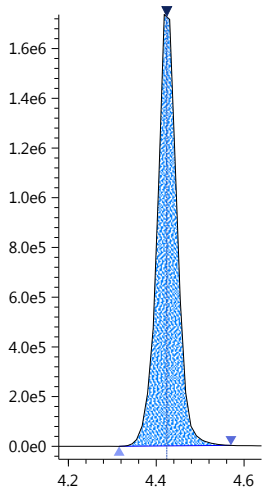


R1 362.90>169.00 (-) 4.09e5

PFHpA-13C

Conc 5.4509
RT 4.424 Area 5506410

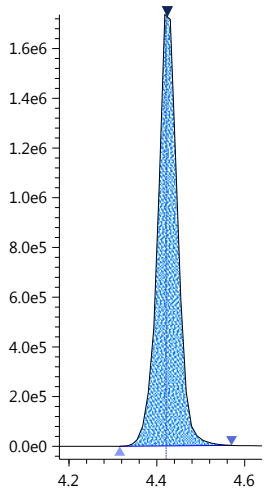
Q 366.90>322.10 (-) 1.74e6



PFHpA-13C_IS

Conc 5.0000
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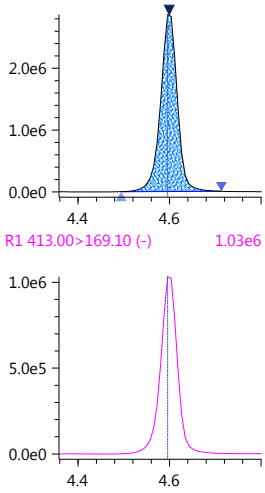
ISTD 366.90>322.10 (-) 1.74e6



PFOA

Conc 5.0495
RT 4.599 Area 7288977
R#1 36.00 (0.00)

Q 413.00>369.00 (-) 2.87e6

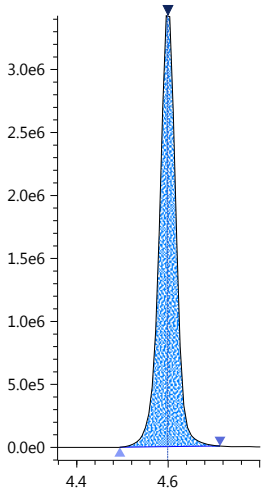


R1 413.00>169.10 (-) 1.03e6

PFOA-13C

Conc 5.3791
RT 4.599 Area 8754027

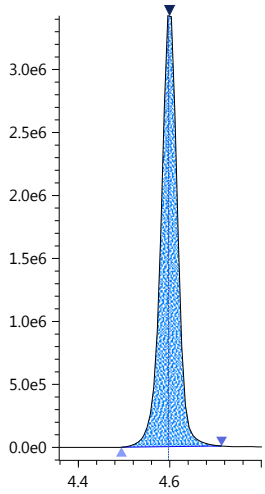
Q 416.80>372.05 (-) 3.43e6



PFOA-13C_IS

Conc 5.0000
RT 4.599 Area 8754027

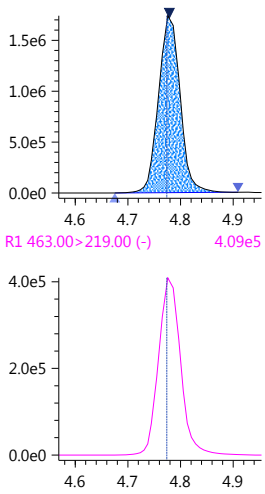
ISTD 416.80>372.05 (-) 3.43e6



PFNA

Conc 4.8747
RT 4.779 Area 4947459
R#1 23.51 (0.00)

Q 463.00>418.90 (-) 1.74e6

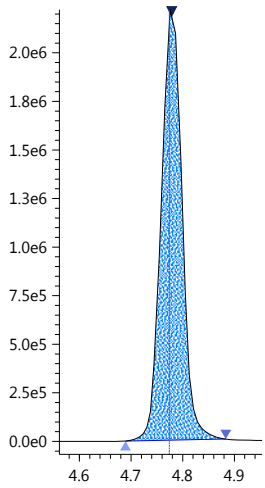


R1 463.00>219.00 (-) 4.09e5

PFNA-13C

Conc 5.4289
RT 4.779 Area 6222168

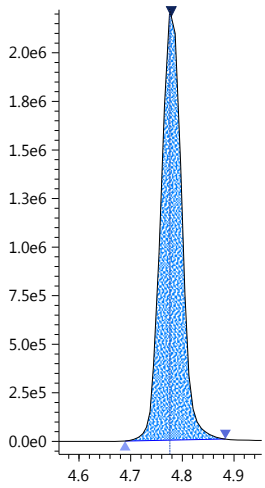
Q 467.80>423.00 (-) 2.22e6



PFNA-13C_IS

Conc 5.0000
RT 4.779 Area 6222168

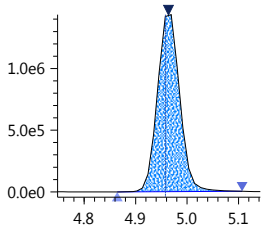
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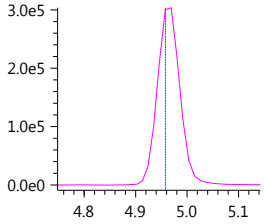
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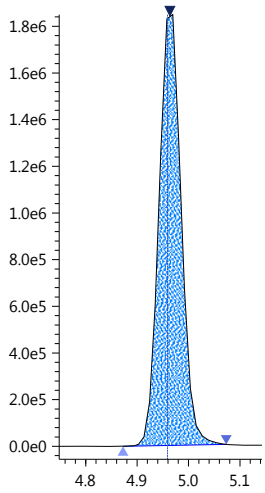
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RT 4.964 Area 4334389
R#1 21.18 (0.00)
Q 513.00>468.80 (-) 1.44e6



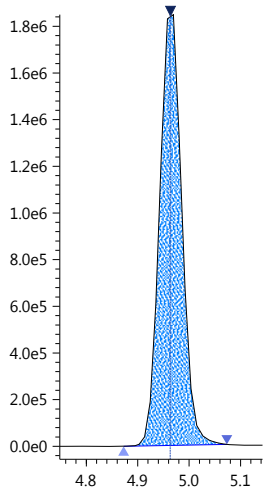
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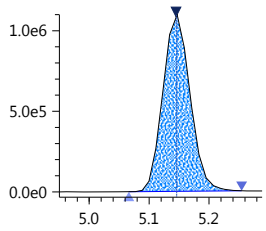
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RT 4.964 Area 5574279
Q 514.80>469.95 (-) 1.85e6



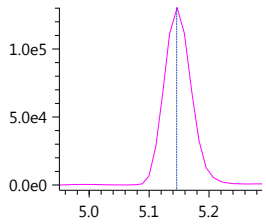
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RT 4.964 Area 5574279
ISTD 514.80>469.95 (-) 1.85e6



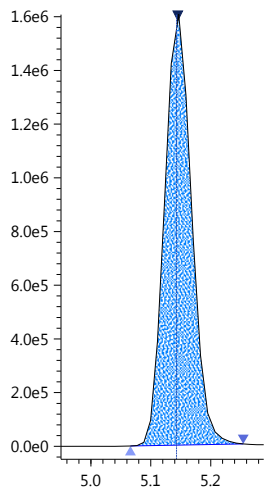
PFUnA
Conc 5.2501
RT 5.145 Area 3468094
R#1 11.86 (0.00)
Q 563.00>518.90 (-) 1.10e6



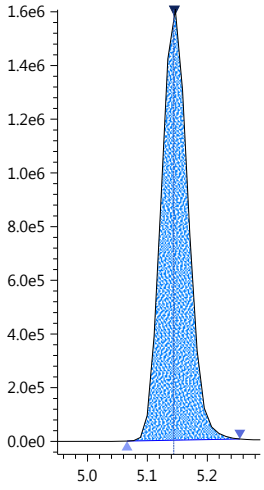
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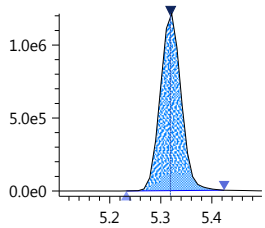
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Conc 4.7477
RT 5.145 Area 5059137
Q 564.80>519.95 (-) 1.61e6



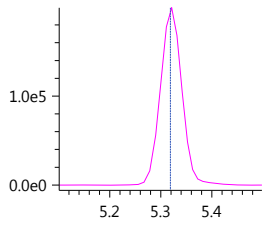
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Conc 5.0000
RT 5.145 Area 5059137
ISTD 564.80>519.95 (-) 1.61e6



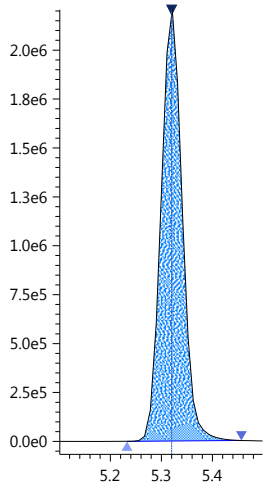
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Conc 5.2560
RT 5.319 Area 3437361
R#1 16.46 (0.00)
Q 613.05>569.00 (-) 1.21e6



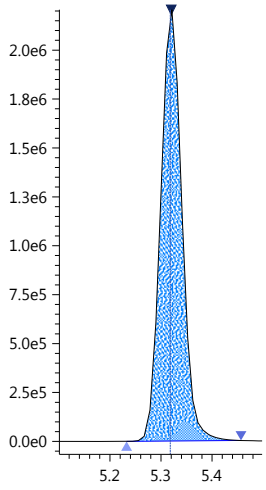
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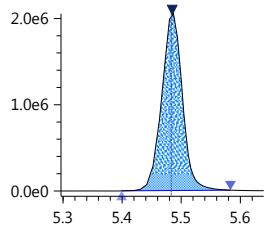
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Q 614.80>569.95 (-) 2.21e6



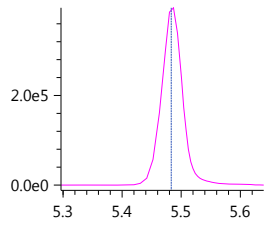
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Conc 5.0000
RT 5.320 Area 6353402
ISTD 614.80>569.95 (-) 2.21e6



PFTrDA
Conc 4.8836
RT 5.485 Area 4988114
R#1 19.25 (0.00)
Q 663.00>618.90 (-) 2.06e6



R1 662.90>169.00 (-) 3.96e5



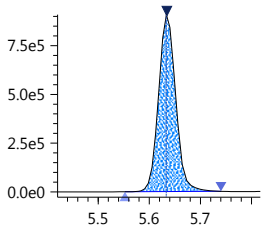
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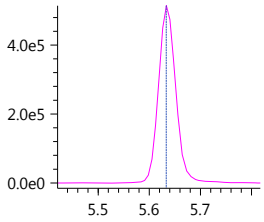
PFTeDA

Conc 4.8674
RT 5.634 Area 2116366
R#1 56.55 (0.00)

Q 713.40>669.00 (-) 9.09e5



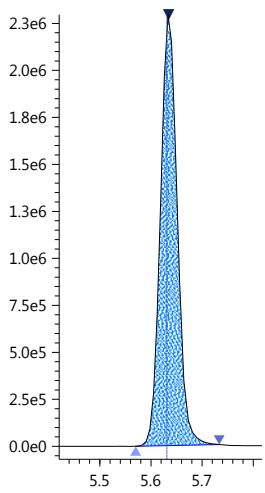
R1 713.40>169.10 (-) 5.14e5



PFTeDA-13C

Conc 5.1247
RT 5.635 Area 5260321

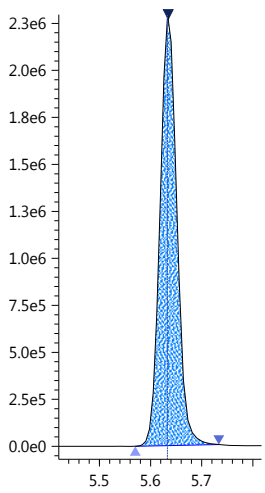
Q 714.70>669.90 (-) 2.30e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.635 Area 5260321

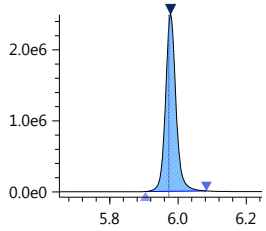
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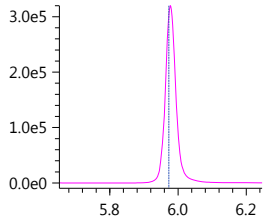
PFHxDA

Conc 5.0439
RT 5.978 Area 5283163
R#1 12.53 (0.00)

Q 813.00>769.05 (-) 2.50e6



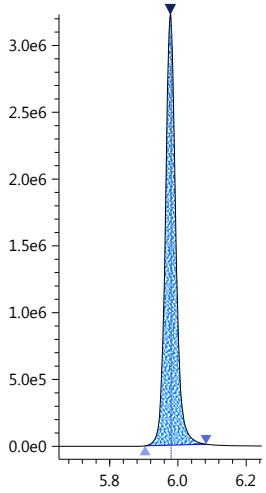
R1 813.00>218.95 (-) 3.20e5



13C-PFHxDA

Conc 5.2076
RT 5.978 Area 6831631

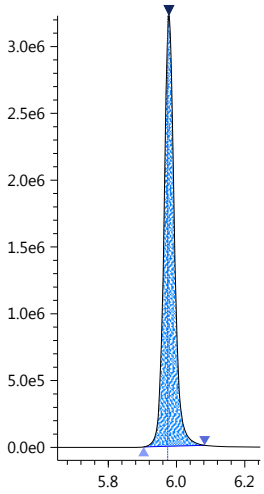
Q 815.00>770.05 (-) 3.23e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.978 Area 6831631

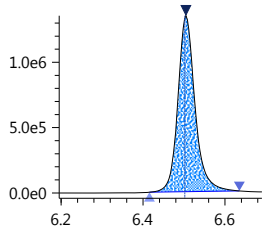
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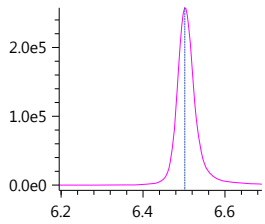
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Conc 4.9146
RT 6.505 Area 3907279
R#1 19.26 (0.00)

Q 913.00>868.85 (-) 1.36e6



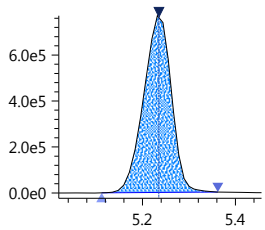
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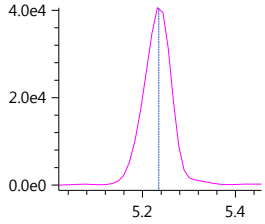
FOSA

Conc 4.6739
RT 5.235 Area 3197114
R#1 5.26 (0.00)

Q 498.20>78.00 (-) 7.71e5



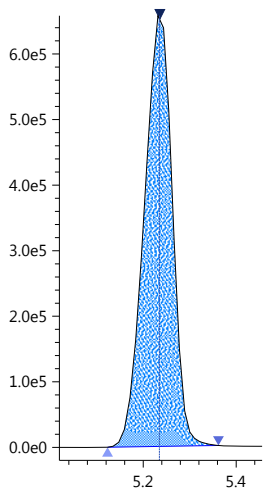
R1 498.20>64.10 (-) 4.06e4



FOSA-13C

Conc 4.9426
RT 5.236 Area 2768167

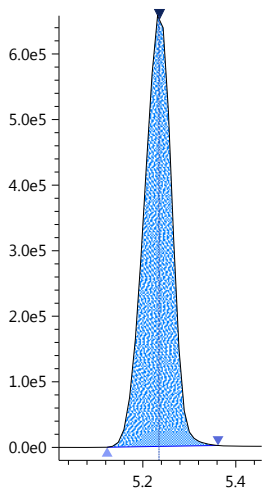
Q 506.00>78.05 (-) 6.58e5



FOSA-13C_IS

Conc 5.0000
RT 5.236 Area 2768167

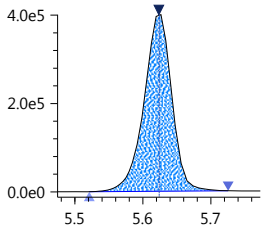
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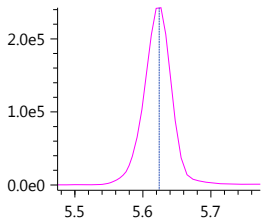
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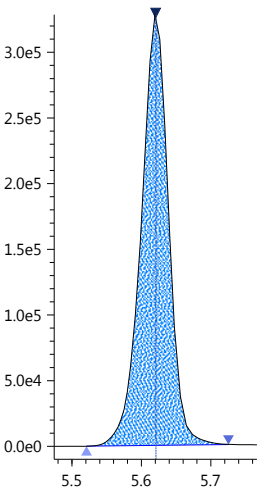
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RT 5.624 Area 1135436
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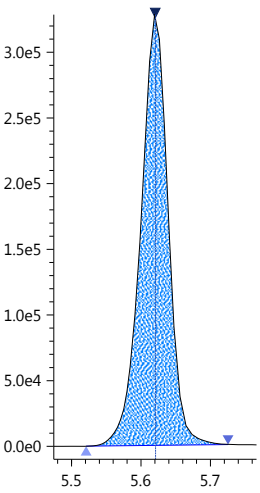
R1 512.00>219.00 (-) 2.43e5



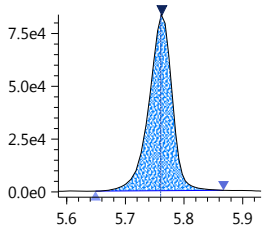
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Conc 5.2693
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Q 514.90>168.90 (-) 3.29e5



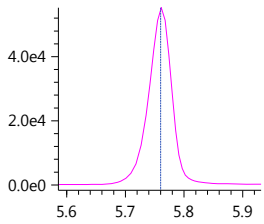
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Conc 5.0000
RT 5.621 Area 901444
ISTD 514.90>168.90 (-) 3.29e5



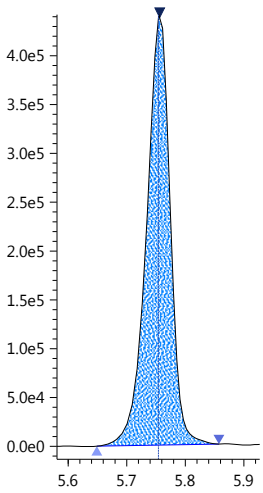
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RT 5.762 Area 228954
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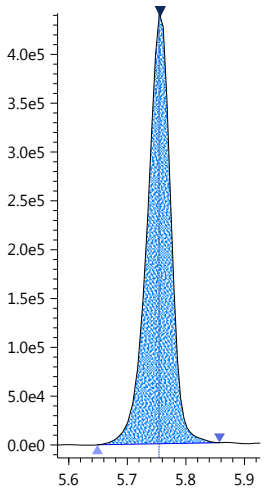
R1 526.90>219.00 (-) 5.53e4



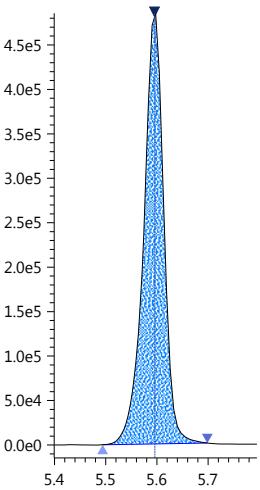
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Conc 5.3029
RT 5.756 Area 1239761
Q 530.90>169.15 (-) 4.42e5



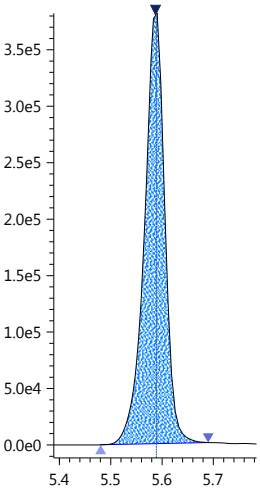
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.756 Area 1239761
ISTD 530.90>169.15 (-) 4.42e5



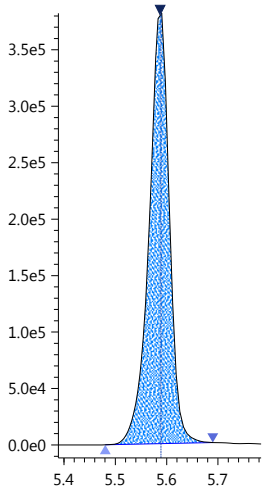
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RT 5.595 Area 1324034
Q 616.00>59.00 (-) 4.86e5



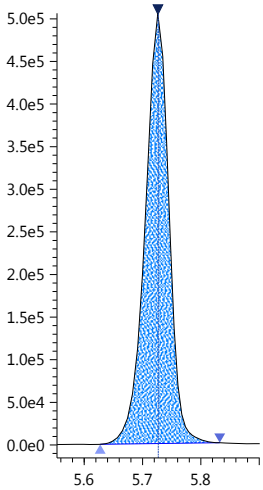
N-MeFOSE-d7
Conc 5.0820
RT 5.587 Area 1054156
Q 622.70>59.10 (-) 3.82e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.587 Area 1054156
ISTD 622.70>59.10 (-) 3.82e5



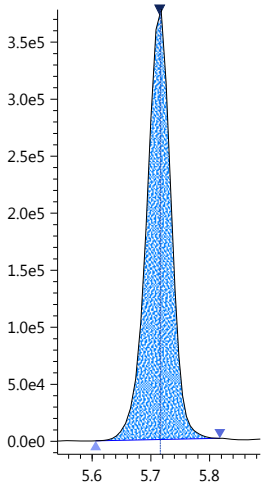
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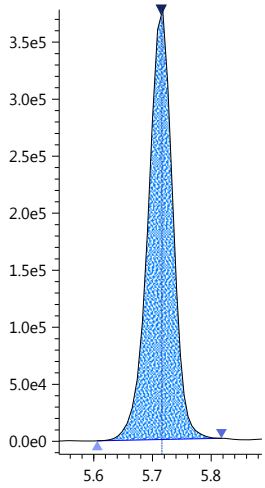
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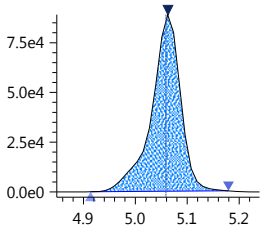
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Conc 5.2102
RT 5.715 Area 1101789
Q 638.70>59.10 (-) 3.79e5



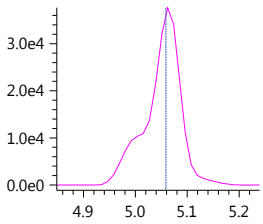
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ISTD 638.70>59.10 (-) 3.79e5



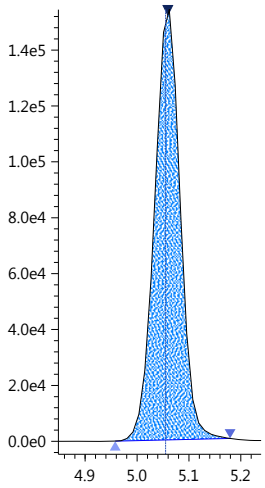
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Conc 4.9118
RT 5.063 Area 342095
R#1 42.15 (0.00)
Q 570.20>419.00 (-) 8.91e4



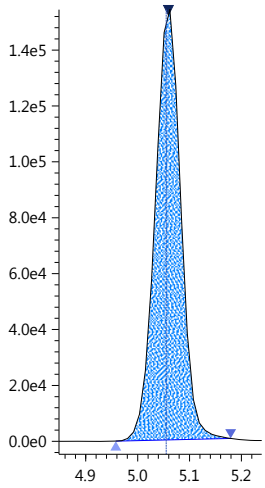
R1 570.20>512.00 (-) 3.76e4



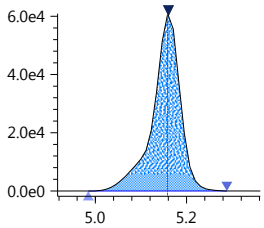
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RT 5.059 Area 530764
Q 572.80>419.05 (-) 1.54e5



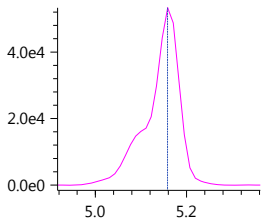
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RT 5.059 Area 530764
ISTD 572.80>419.05 (-) 1.54e5



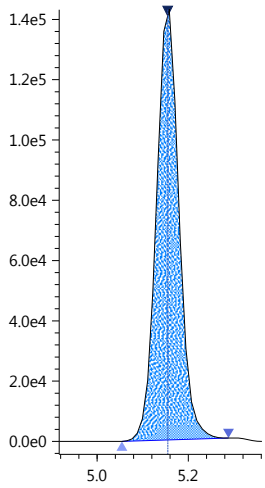
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Conc 5.3768
RT 5.160 Area 249640
R#1 86.76 (0.00)
Q 584.20>418.95 (-) 6.09e4



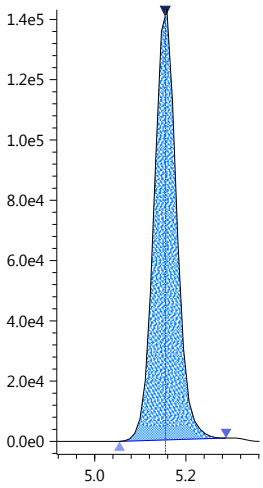
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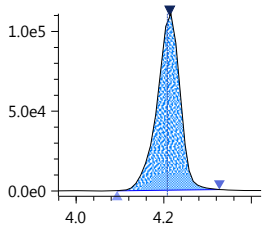
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Conc 5.1817
RT 5.155 Area 495044
Q 588.80>419.00 (-) 1.43e5



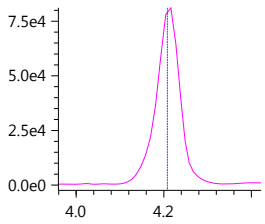
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ISTD 588.80>419.00 (-) 1.43e5



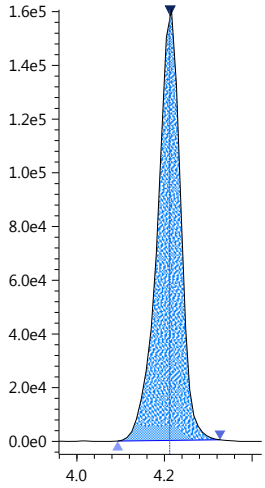
4_2-FTS_1
Conc 3.9147
RT 4.214 Area 403539
R#1 72.79 (0.00)
Q 327.00>307.05 (-) 1.11e5



R1 327.00>81.10 (-) 8.12e4



4_2-FTS-13C
Conc 5.0038
RT 4.213 Area 593129
Q 328.80>309.05 (-) 1.61e5

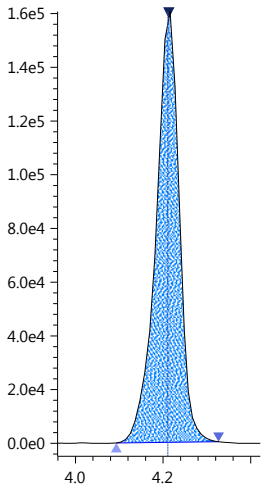


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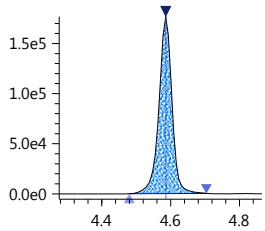
4_2-FTS-13C_IS
Conc 5.0000
RT 4.213 Area 593129

ISTD 328.80>309.05 (-) 1.61e5

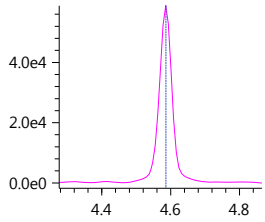


6_2-FTS_1
Conc 4.5573
RT 4.586 Area 462378
R#1 33.18 (0.00)

Q 427.00>407.00 (-) 1.77e5

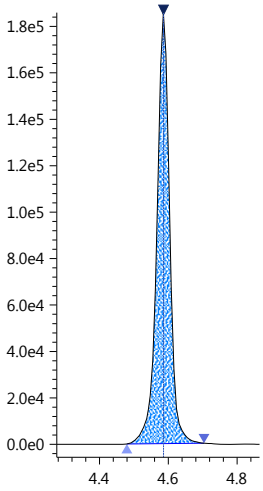


R1 427.00>80.90 (-) 5.88e4



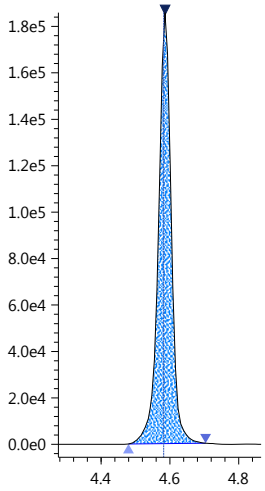
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Conc 4.8068
RT 4.586 Area 481055

Q 428.90>409.00 (-) 1.86e5



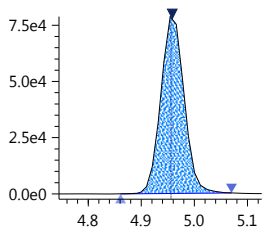
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RT 4.586 Area 481055

ISTD 428.90>409.00 (-) 1.86e5

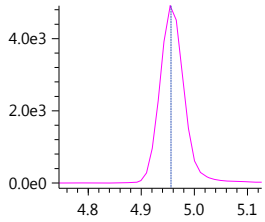


8_2-FTS_1
Conc 5.4475
RT 4.958 Area 240766
R#1 6.24 (0.00)

Q 527.10>506.90 (-) 7.88e4

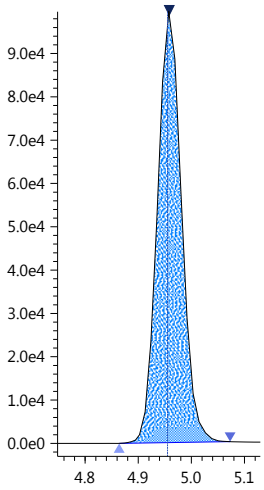


R1 527.20>487.00 (-) 4.91e3



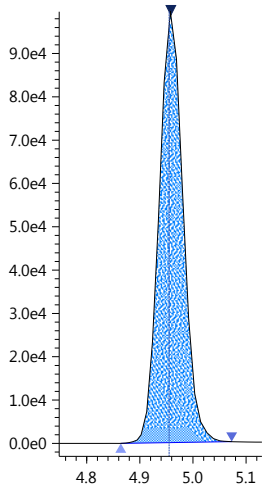
8_2-FTS-13C
Conc 4.7995
RT 4.958 Area 313785

Q 528.80>509.00 (-) 9.96e4



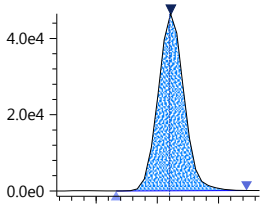
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Conc 5.0000
RT 4.958 Area 313785

ISTD 528.80>509.00 (-) 9.96e4

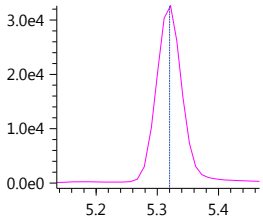


10_2-FtS_1
Conc 5.0325
RT 5.322 Area 136675
R#1 69.40 (0.00)

Q 627.00>606.95 (-) 4.65e4

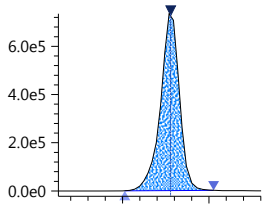


R1 627.00>81.25 (-) 3.26e4

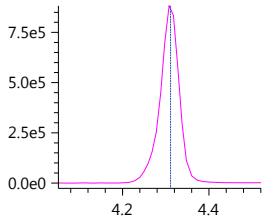


HPFO_DA
Conc 5.2805
RT 4.311 Area 2239956
R#1 120.00 (0.00)

Q 329.00>169.00 (-) 7.35e5

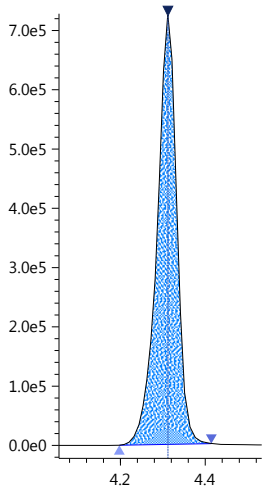


R1 329.00>285.10 (-) 8.82e5



HFPO_DA-13C
Conc 5.4420
RT 4.312 Area 2350855

Q 332.00>286.80 (-) 7.28e5

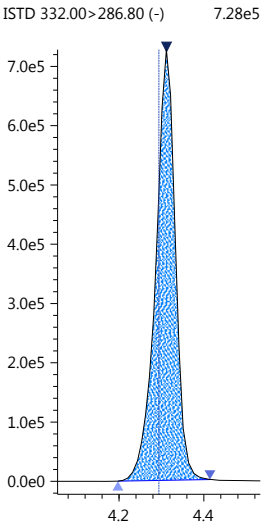


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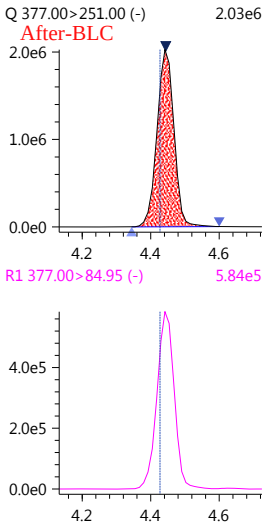
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Conc 5.0000
RT 4.312 Area 2350855



ADONA

Conc 5.3101
RT 4.444 Area 6936718
R#1 28.78 (0.00)



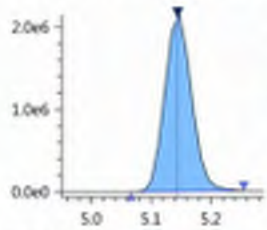
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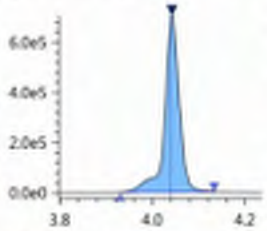
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Date acquired: 9/17/2019 4:33:58 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_010.lcd
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

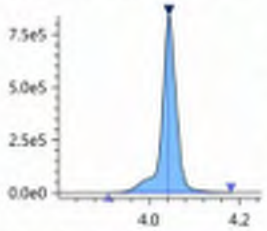
13C7-PFUnDA_IS
Conc 5.0000
RT 5.144 Area 6722508
ISTD 570.00>525.00 (-) 2.15e6



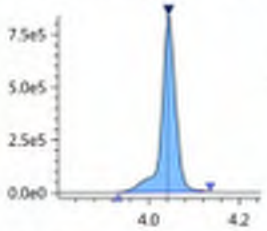
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Conc 4.1538
RT 4.042 Area 1537409
Q 299.00>80.00 (-) 7.07e5



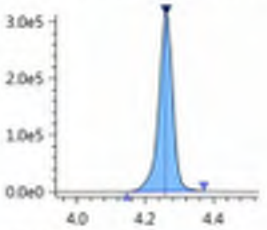
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Conc 5.9274
RT 4.044 Area 1852070
Q 301.80>80.00 (-) 8.39e5



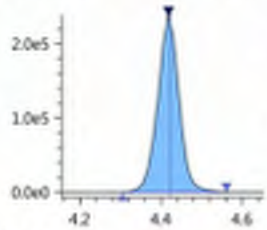
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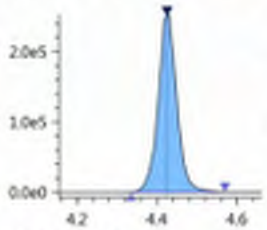
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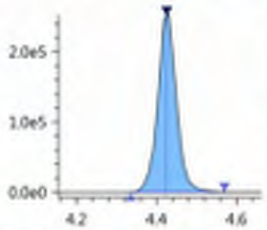
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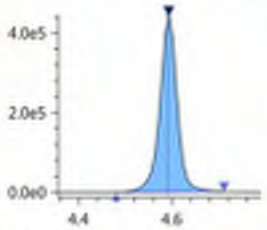
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Q 402.70>84.05 (-) 2.52e5



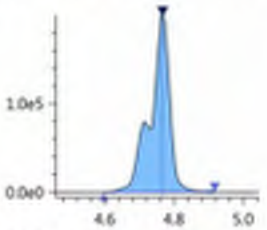
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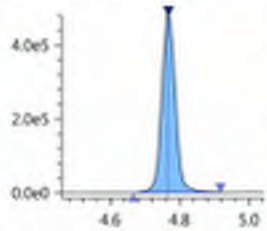
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Conc 4.2695
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Q 449.00>80.15 (-) 4.45e5



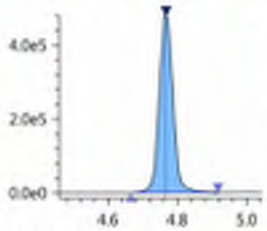
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RT 4.767 Area 784727
Q 499.00>80.00 (-) 2.00e5



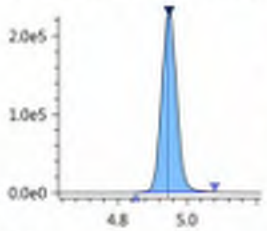
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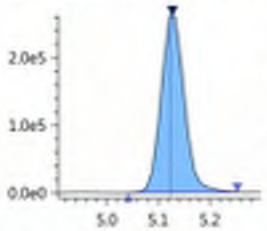
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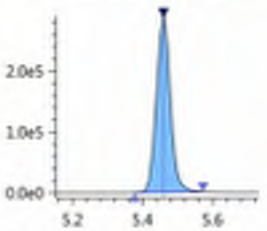
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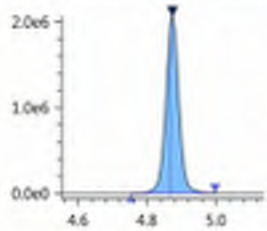
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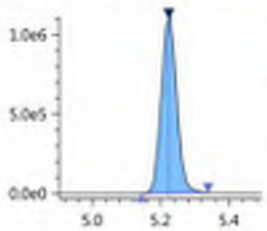
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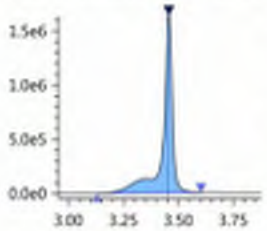
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RT 4.873 Area 5419558
Q 531.00>351.00 (-) 2.07e6



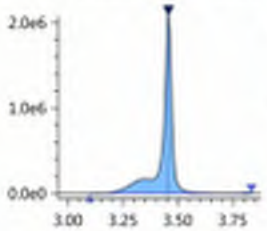
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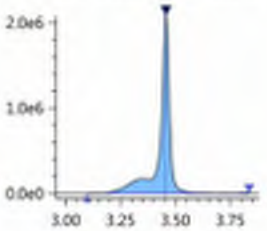
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Conc 5.1067
RT 3.457 Area 4910295
Q 213.00>169.10 (-) 1.64e6



PFBA-13C
Conc 5.1945
RT 3.456 Area 6394823
Q 216.90>172.15 (-) 2.08e6



PFBA-13C_IS
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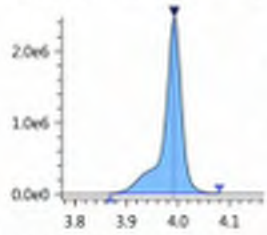


Manual Integration - Before

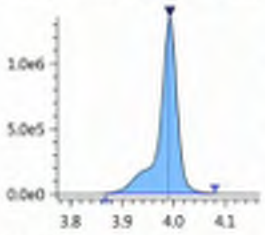
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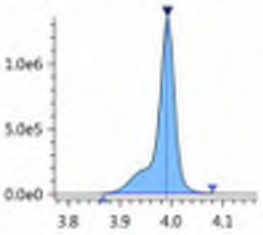
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Q 263.05>219.10 (-) 2.48e6



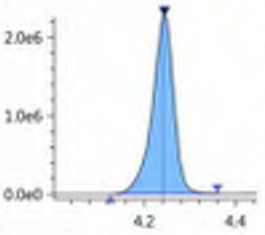
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Q 267.90>223.00 (-) 1.36e6



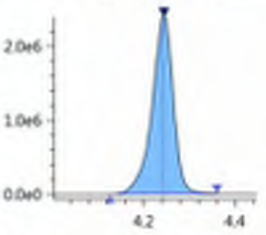
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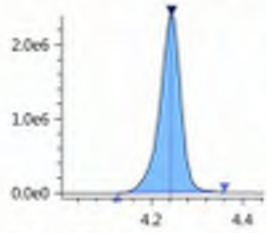
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Conc 4.6087
RT 4.244 Area 7475490
Q 313.00>269.00 (-) 2.26e6



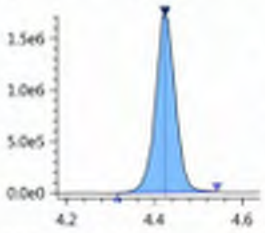
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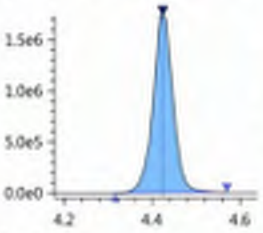
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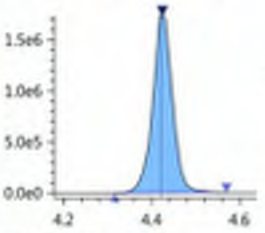
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Q 362.90>319.00 (-) 1.72e6



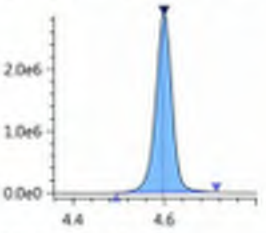
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Q 366.90>322.10 (-) 1.74e6



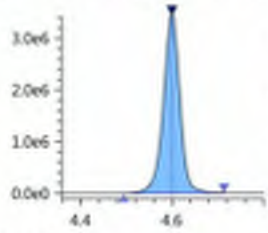
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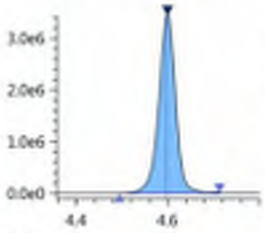
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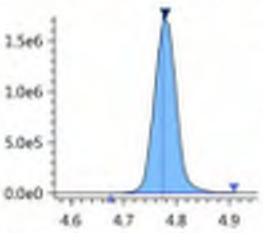
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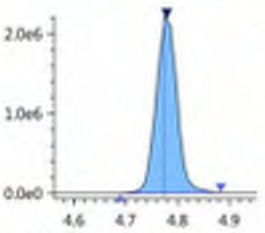
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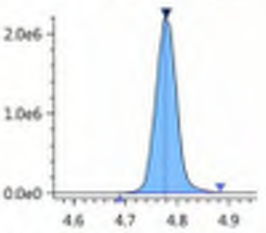
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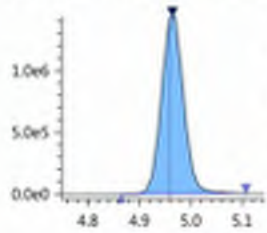
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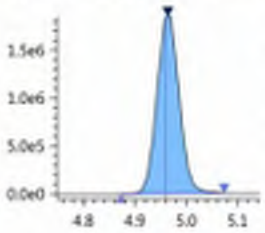
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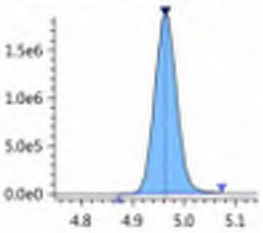
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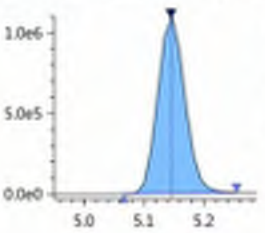
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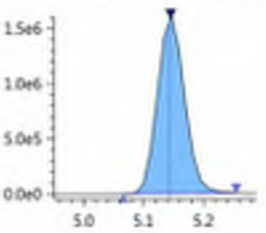
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RT 5.145 Area 3468094
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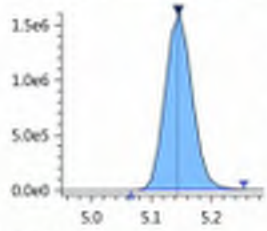


Manual Integration - Before

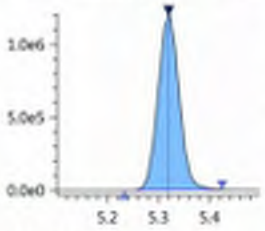
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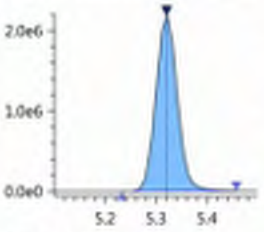
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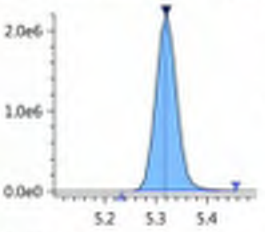
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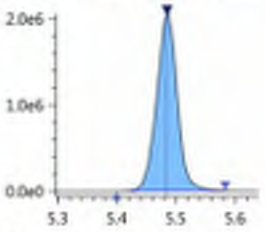
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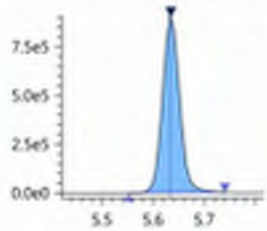
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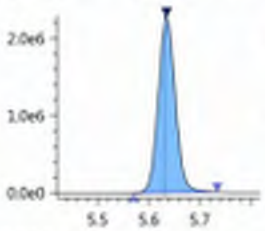
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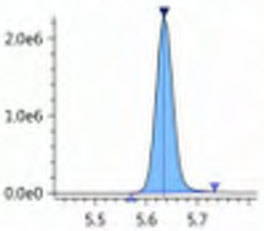
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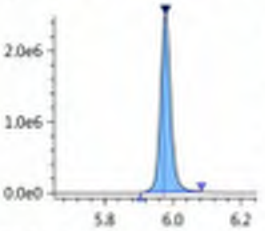
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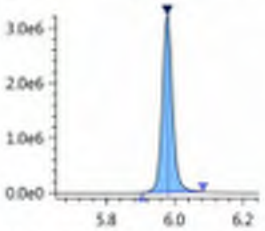
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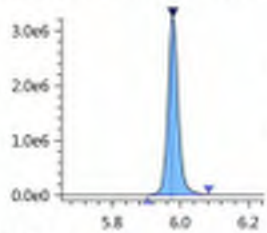
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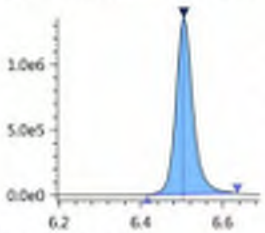
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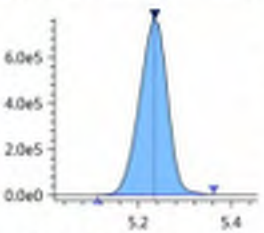
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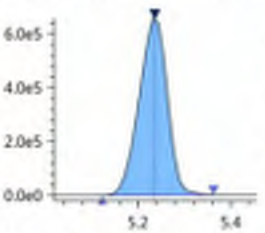
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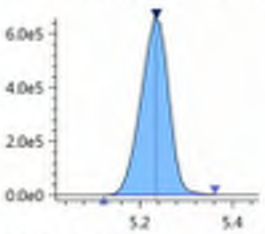
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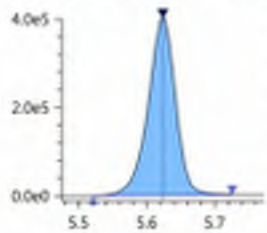
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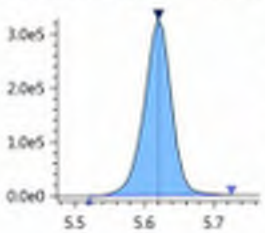
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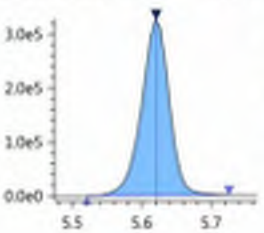
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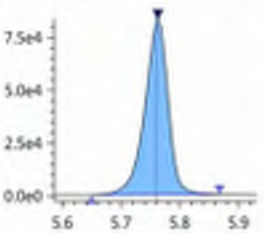
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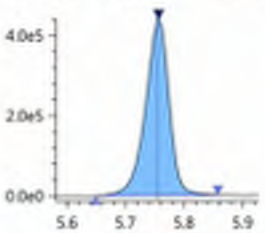
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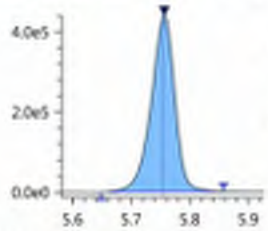
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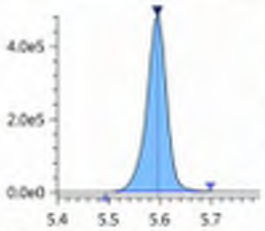
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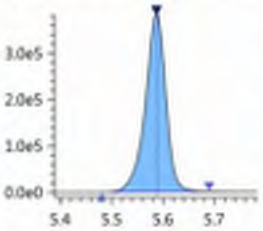
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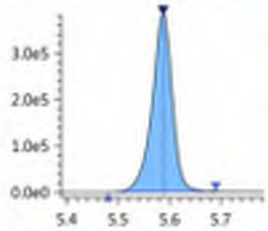
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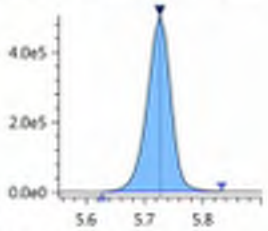
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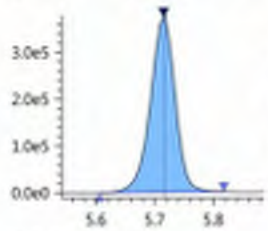
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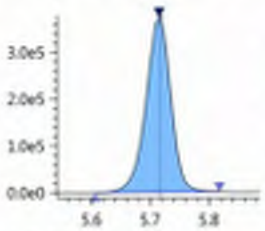
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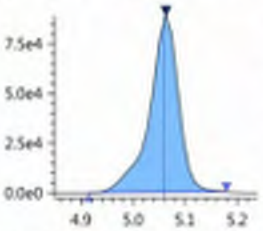
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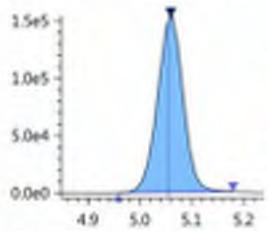
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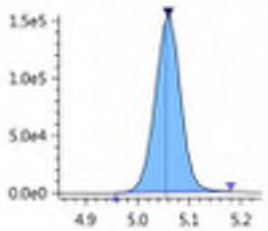
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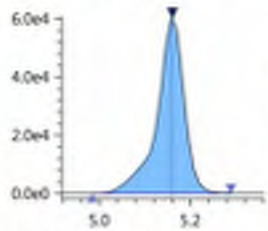
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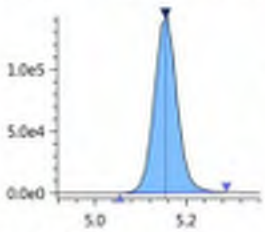
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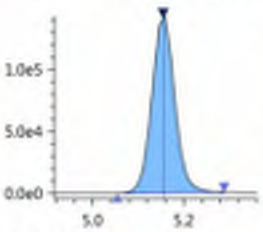
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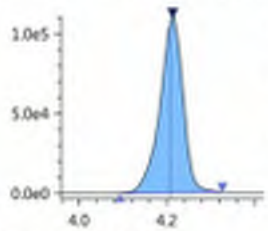
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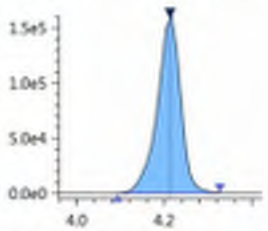
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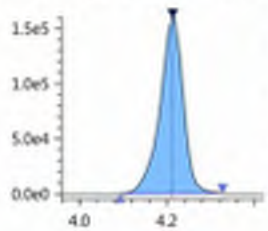
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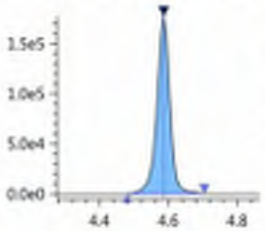
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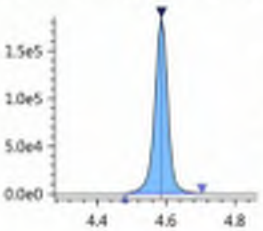
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ISTD 328.80>309.05 (-) 1.61e5



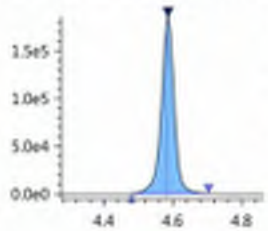
6_2-FTS_1
Conc 4.5600
RT 4.586 Area 462378
Q 427.00>407.00 (-) 1.77e5



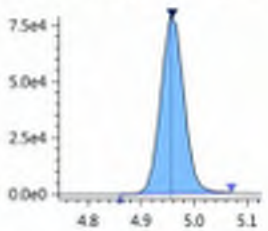
6_2-FTS-13C
Conc 4.8068
RT 4.586 Area 481055
Q 428.90>409.00 (-) 1.86e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.586 Area 481055
ISTD 428.90>409.00 (-) 1.86e5



8_2-FTS_1
Conc 5.5294
RT 4.958 Area 240766
Q 527.10>506.90 (-) 7.88e4

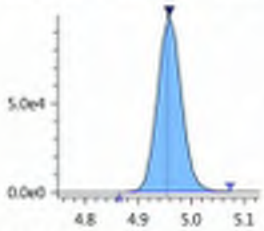


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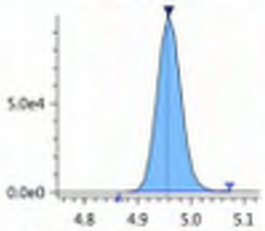
8_2-FTS-13C

Conc 4.7995
RT 4.958 Area 313785
Q 528.80>509.00 (-) 9.96e4



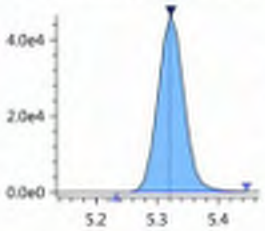
8_2-FTS-13C_IS

Conc 5.0000
RT 4.958 Area 313785
ISTD 528.80>509.00 (-) 9.96e4



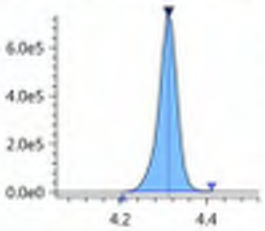
10_2-FtS_1

Conc 5.0859
RT 5.322 Area 136675
Q 627.00>606.95 (-) 4.65e4



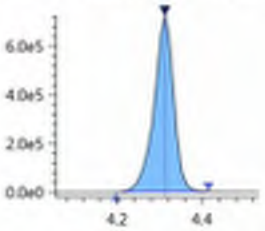
HPFO_DA

Conc 5.7358
RT 4.311 Area 2239956
Q 329.00>169.00 (-) 7.35e5



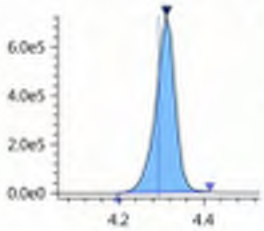
HFPO_DA-13C

Conc 4.8133
RT 4.312 Area 2350855
Q 332.00>286.80 (-) 7.28e5



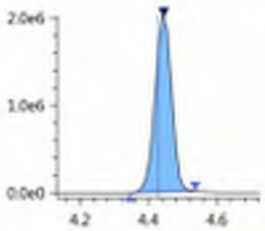
HFPO_DA-13C_IS

Conc 5.0000
RT 4.312 Area 2350855
ISTD 332.00>286.80 (-) 7.28e5



ADONA

Conc 5.2514
RT 4.444 Area 6809133
Q 377.00>251.00 (-) 2.03e6



Insight Report

Printed at 9/18/2019 9:25:42 AM

190917_011

Sample ID: 10.0 PPB ICAL
Date acquired: 9/17/2019 4:44:44 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_011.lcd
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.142	8106361	8106361	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.042	2984371	1844722	2	7.9705	ng/mL	8.8737
PFBS-13C	Auto	4.044	1858705	8106361	1	4.9332	ng/mL	5.0000
PFBS-13C_IS	Auto	4.044	1844722	1844722	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.261	1643657	1844722	2	8.4829	ng/mL	9.4092
PFHxS_1	Auto	4.419	1800503	883030	3	8.6059	ng/mL	9.1308
PFHxS-18O	Auto	4.425	883030	8106361	1	4.7351	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.425	883030	883030	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.592	2373384	883030	3	8.7237	ng/mL	9.5344
PFOS_1	Auto	4.766	1412388	1156908	4	8.8973	ng/mL	9.2923
PFOS-13C	Auto	4.766	1156908	8106361	1	4.2565	ng/mL	5.0000
PFOS-13C_IS	Auto	4.766	1156908	1156908	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.946	1047894	1156908	4	8.5649	ng/mL	9.6158
PFDS_1	Auto	5.123	1278919	1156908	4	8.0483	ng/mL	9.6467
PFDOS	Auto	5.457	1746918	1156908	4	9.0183	ng/mL	9.6956
9Cl-PF3ONS	Auto	4.870	12227416	2289566	26	10.3955	ng/mL	9.3324
11Cl-PF3OUdS	Auto	5.222	8624467	2289566	26	10.6842	ng/mL	9.4320
PFBA	Auto	3.457	9573023	6369120	5	9.7291	ng/mL	10.0000
PFBA-13C	Auto	3.457	6369120	8106361	1	4.3305	ng/mL	5.0000
PFBA-13C_IS	Auto	3.457	6369120	6369120	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.993	11248031	3167519	6	9.9624	ng/mL	10.0000
PFPeA-13C	Auto	3.992	3167519	8106361	1	4.2392	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.992	3167519	3167519	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.244	14519992	7623649	7	9.9467	ng/mL	10.0000
PFHxA-13C	Auto	4.244	7623649	8106361	1	4.2329	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.244	7623649	7623649	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.423	10933957	5476245	8	10.2371	ng/mL	10.0000
PFHpA-13C	Auto	4.424	5476245	8106361	1	4.4956	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.424	5476245	5476245	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.599	14259892	8457022	9	10.2504	ng/mL	10.0000
PFOA-13C	Auto	4.599	8457022	8106361	1	4.3094	ng/mL	5.0000
PFOA-13C_IS	Auto	4.599	8457022	8457022	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.778	8663746	5482235	10	9.7134	ng/mL	10.0000
PFNA-13C	Auto	4.778	5482235	8106361	1	3.9667	ng/mL	5.0000
PFNA-13C_IS	Auto	4.778	5482235	5482235	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.961	7141390	4633218	11	9.8830	ng/mL	10.0000
PFDA-13C	Auto	4.962	4633218	8106361	1	4.0527	ng/mL	5.0000
PFDA-13C_IS	Auto	4.962	4633218	4633218	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.142	8345220	6273575	12	10.2085	ng/mL	10.0000
PFUnA-13C	Auto	5.142	6273575	8106361	1	4.8824	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.142	6273575	6273575	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.318	7370033	7236416	13	9.8726	ng/mL	10.0000
PFDoA-13C	Auto	5.317	7236416	8106361	1	4.6406	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.317	7236416	7236416	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.483	10372377	5295342	14	10.0924	ng/mL	10.0000
PFTeDA	Auto	5.632	4354738	5295342	14	10.1040	ng/mL	10.0000
PFTeDA-13C	Auto	5.633	5295342	8106361	1	4.2781	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.633	5295342	5295342	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.977	10473301	6927291	15	9.9269	ng/mL	10.0000
13C-PFHxDA	Auto	5.977	6927291	8106361	1	4.3791	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.977	6927291	6927291	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.502	7768021	6927291	15	9.6356	ng/mL	10.0000
FOSA	Auto	5.234	6673400	2827127	16	9.5524	ng/mL	10.0000
FOSA-13C	Auto	5.233	2827127	8106361	1	4.1862	ng/mL	5.0000
FOSA-13C_IS	Auto	5.233	2827127	2827127	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.622	2237616	895665	17	8.7780	ng/mL	10.0000
N-MeFOSA-d3	Auto	5.619	895665	8106361	1	4.3418	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.619	895665	895665	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.761	434910	1227884	18	9.3027	ng/mL	10.0000
N-EtFOSA-d9	Auto	5.755	1227884	8106361	1	4.3555	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.755	1227884	1227884	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.594	2636374	1089512	19	9.4790	ng/mL	10.0000
N-MeFOSE-d7	Auto	5.586	1089512	8106361	1	4.3558	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.586	1089512	1089512	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.725	2765259	1076097	20	9.8036	ng/mL	10.0000
N-EtFOSE-d9	Auto	5.713	1076097	8106361	1	4.2200	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.713	1076097	1076097	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.058	620448	580474	21	8.1455	ng/mL	10.0000

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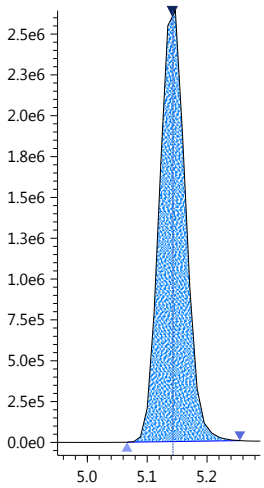
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.056	580474	8106361	1	4.6008	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.056	580474	580474	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.156	472497	518206	22	9.7220	ng/mL	10.0000
N-EtFOSAA-d5	Auto	5.153	518206	8106361	1	4.4982	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.153	518206	518206	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.213	774680	578281	23	7.7081	ng/mL	9.3722
4_2-FTS-13C	Auto	4.213	578281	8106361	1	4.0457	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.213	578281	578281	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.584	842877	465950	24	8.5769	ng/mL	9.5117
6_2-FTS-13C	Auto	4.584	465950	8106361	1	3.8611	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.584	465950	465950	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.954	357159	349334	25	7.2586	ng/mL	9.6004
8_2-FTS-13C	Auto	4.953	349334	8106361	1	4.4310	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.953	349334	349334	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.319	272459	349334	25	9.0114	ng/mL	9.6619
HPFO_DA	Auto	4.311	4449328	2289566	26	10.7698	ng/mL	10.0000
HFPO_DA-13C	Auto	4.312	2289566	8106361	1	4.3953	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.312	2289566	2289566	26	5.0000	ng/mL	5.0000
ADONA	M	4.443	11982042	2289566	26	9.4179	ng/mL	9.4505

13C7-PFUnDA_IS

Conc 5.0000
RT 5.142 Area 8106361

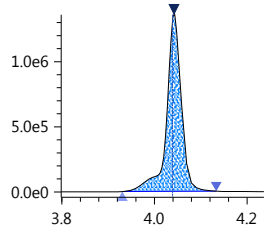
ISTD 570.00>525.00 (-) 2.64e6



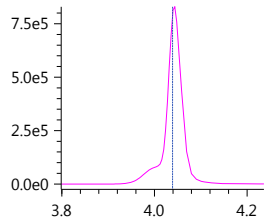
PFBS_1

Conc 7.9705
RT 4.042 Area 2984371
R#1 59.82 (0.00)

Q 299.00>80.00 (-) 1.36e6



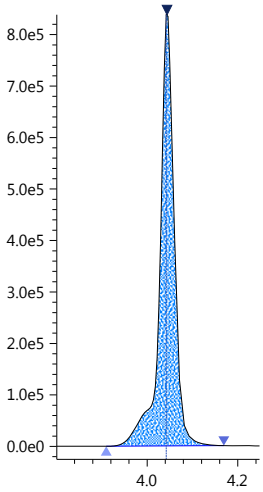
R1 298.80>99.00 (-) 8.29e5



PFBS-13C

Conc 4.9332
RT 4.044 Area 1858705

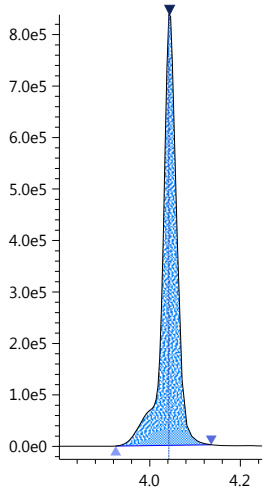
Q 301.80>80.00 (-) 8.39e5



PFBS-13C_IS

Conc 5.0000
RT 4.044 Area 1844722

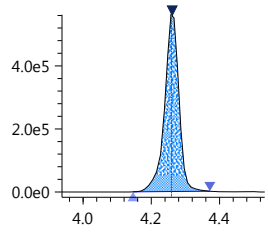
ISTD 301.80>80.00 (-) 8.39e5



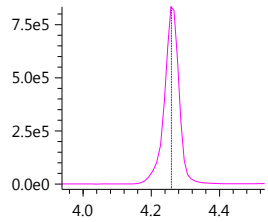
PFPeS

Conc 8.4829
RT 4.261 Area 1643657
R#1 148.30 (0.00)

Q 349.00>99.00 (-) 5.62e5



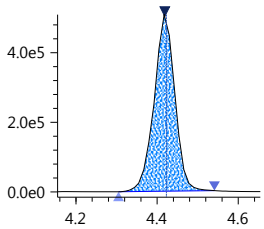
R1 349.00>79.95 (-) 8.34e5



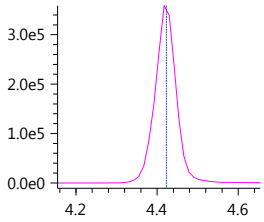
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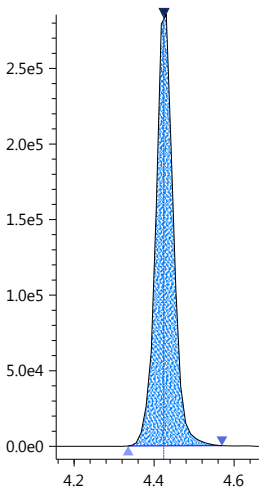
PFHxS_1
Conc 8.6059
RT 4.419 Area 1800503
R#1 69.96 (0.00)
Q 399.00>80.00 (-) 5.09e5



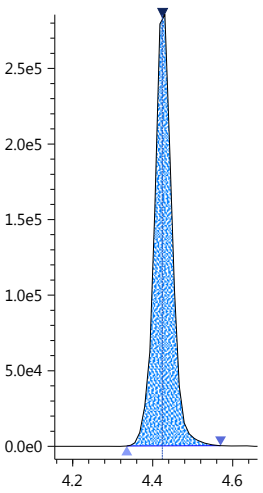
R1 399.00>99.00 (-) 3.59e5



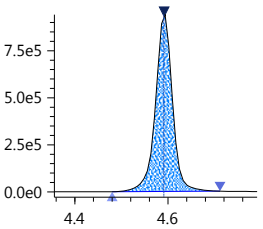
PFHxS-18O
Conc 4.7351
RT 4.425 Area 883030
Q 402.70>84.05 (-) 2.86e5



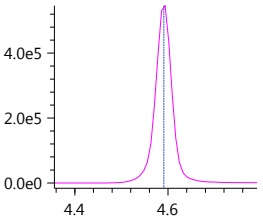
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RT 4.425 Area 883030
ISTD 402.70>84.05 (-) 2.86e5



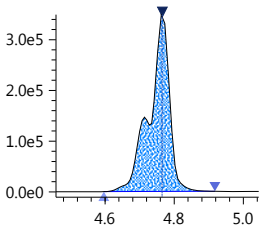
PFHpS_1
Conc 8.7237
RT 4.592 Area 2373384
R#1 59.51 (0.00)
Q 449.00>80.15 (-) 9.42e5



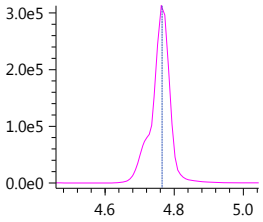
R1 449.00>99.20 (-) 5.46e5



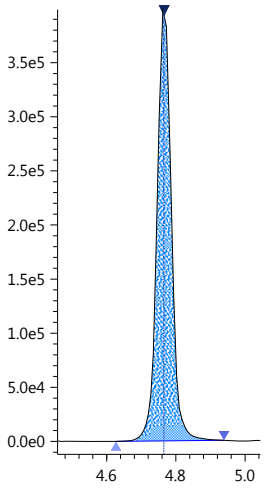
PFOS_1
Conc 8.8973
RT 4.766 Area 1412388
R#1 89.49 (0.00)
Q 499.00>80.00 (-) 3.49e5



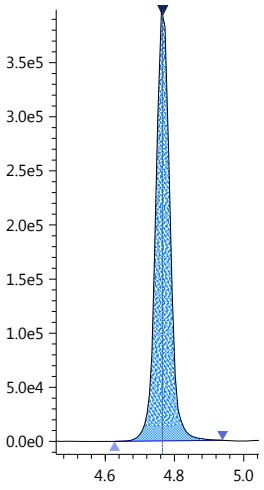
R1 499.00>99.00 (-) 3.13e5



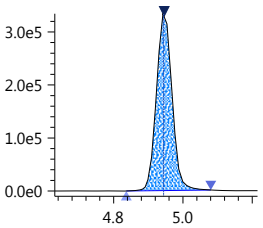
PFOS-13C
Conc 4.2565
RT 4.766 Area 1156908
Q 502.80>80.05 (-) 3.99e5



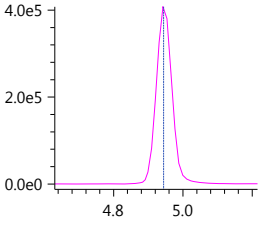
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Conc 5.0000
RT 4.766 Area 1156908
ISTD 502.80>80.05 (-) 3.99e5



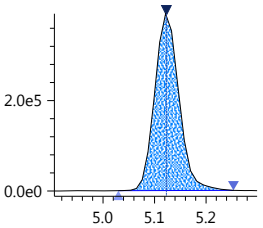
PFNS
Conc 8.5649
RT 4.946 Area 1047894
R#1 121.88 (0.00)
Q 549.00>99.00 (-) 3.34e5



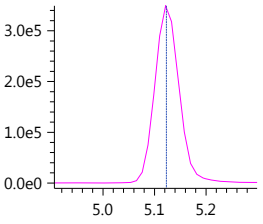
R1 549.00>79.95 (-) 4.08e5



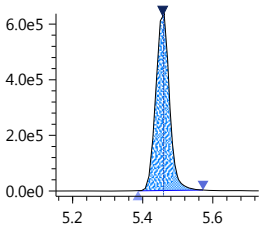
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Conc 8.0483
RT 5.123 Area 1278919
R#1 89.01 (0.00)
Q 599.00>79.90 (-) 3.92e5



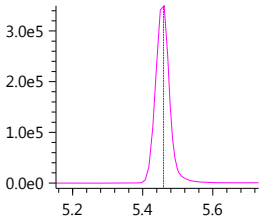
R1 599.00>99.10 (-) 3.49e5



PFDOS
Conc 9.0183
RT 5.457 Area 1746918
R#1 54.91 (0.00)
Q 699.00>79.95 (-) 6.37e5



R1 699.00>99.05 (-) 3.50e5



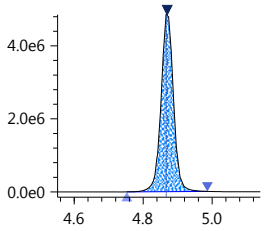
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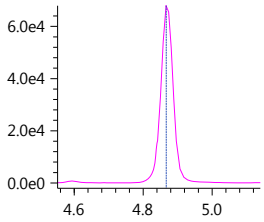
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Conc 10.3955
RT 4.870 Area 12227416
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Q 531.00>351.00 (-) 4.86e6



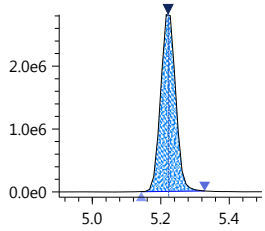
R1 531.00>98.90 (-) 6.79e4



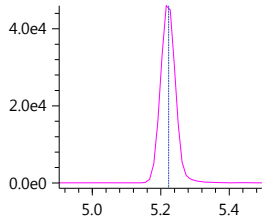
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Conc 10.6842
RT 5.222 Area 8624467
R#1 1.64 (0.00)

Q 631.00>451.05 (-) 2.82e6



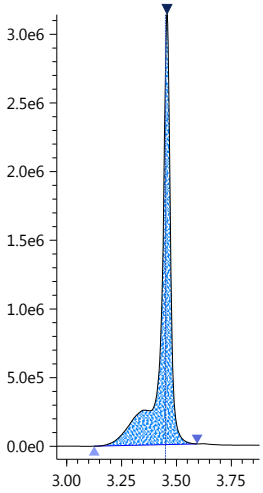
R1 631.00>98.90 (-) 4.60e4



PFBA

Conc 9.7291
RT 3.457 Area 9573023

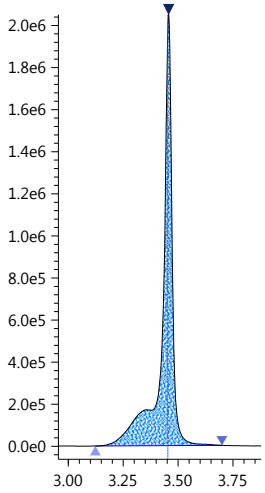
Q 213.00>169.10 (-) 3.14e6



PFBA-13C

Conc 4.3305
RT 3.457 Area 6369120

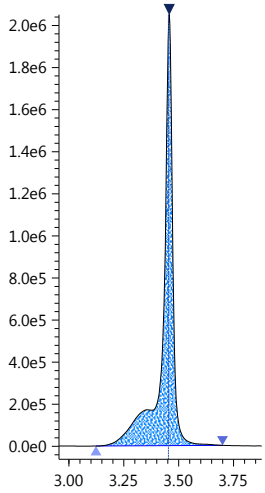
Q 216.90>172.15 (-) 2.05e6



PFBA-13C_IS

Conc 5.0000
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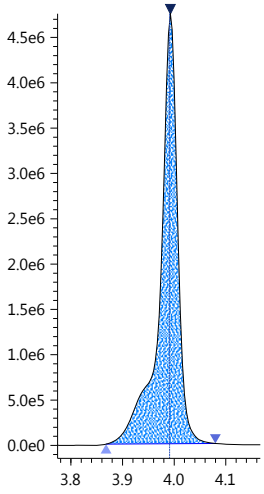
ISTD 216.90>172.15 (-) 2.05e6



PFPeA

Conc 9.9624
RT 3.993 Area 11248031

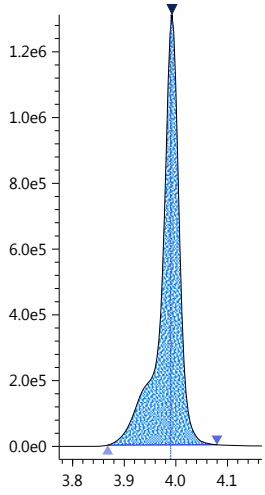
Q 263.05>219.10 (-) 4.76e6



PFPeA-13C

Conc 4.2392
RT 3.992 Area 3167519

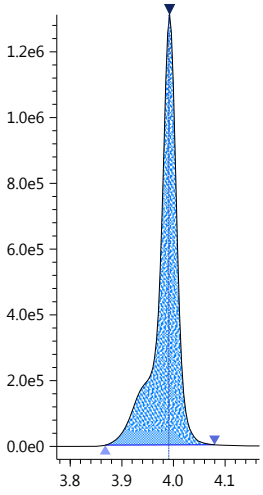
Q 267.90>223.00 (-) 1.31e6



PFPeA-13C_IS

Conc 5.0000
RT 3.992 Area 3167519

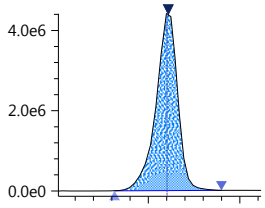
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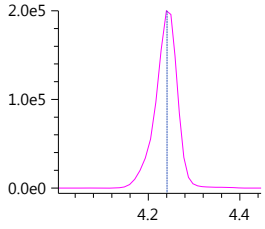
PFHxA

Conc 9.9467
RT 4.244 Area 14519992
R#1 4.53 (0.00)

Q 313.00>269.00 (-) 4.42e6



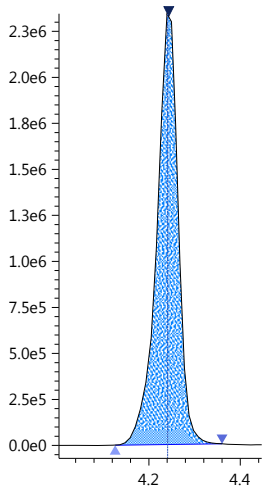
R1 313.00>119.10 (-) 2.00e5



PFHxA-13C

Conc 4.2329
RT 4.244 Area 7623649

Q 314.90>270.10 (-) 2.35e6



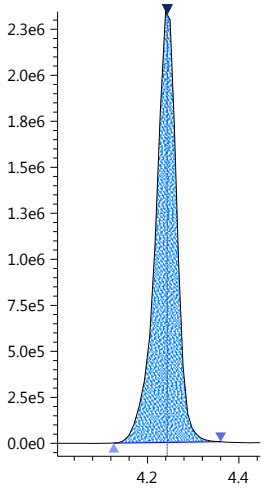
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Conc 5.0000
RT 4.244 Area 7623649

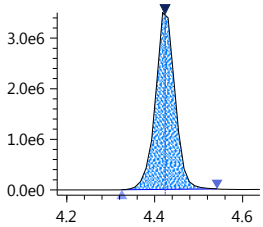
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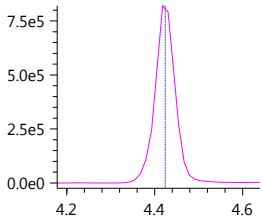
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Conc 10.2371
RT 4.423 Area 10933957
R#1 23.30 (0.00)

Q 362.90>319.00 (-) 3.50e6



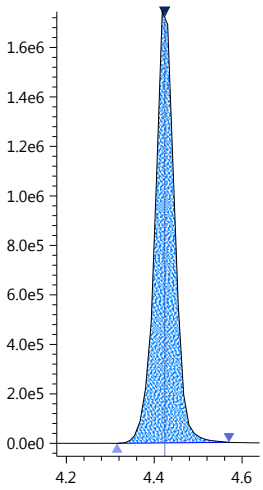
R1 362.90>169.00 (-) 8.21e5



PFHpA-13C

Conc 4.4956
RT 4.424 Area 5476245

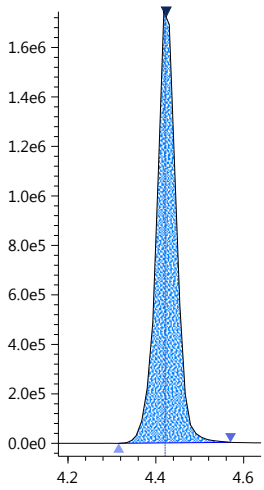
Q 366.90>322.10 (-) 1.74e6



PFHpA-13C_IS

Conc 5.0000
RT 4.424 Area 5476245

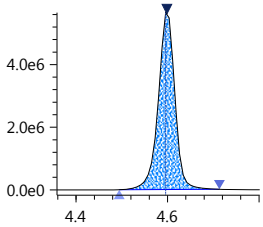
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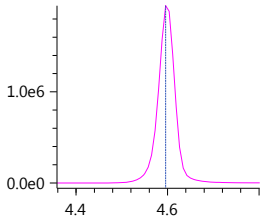
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Conc 10.2504
RT 4.599 Area 14259892
R#1 34.38 (0.00)

Q 413.00>369.00 (-) 5.66e6



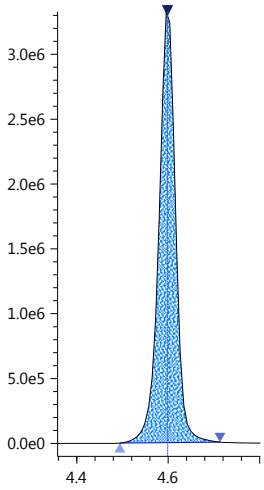
R1 413.00>169.10 (-) 1.95e6



PFOA-13C

Conc 4.3094
RT 4.599 Area 8457022

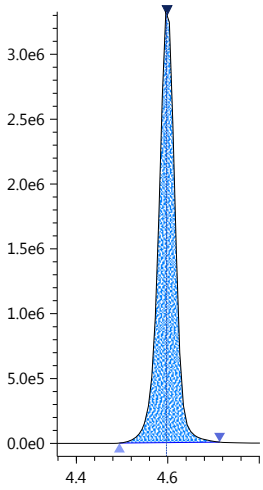
Q 416.80>372.05 (-) 3.33e6



PFOA-13C_IS

Conc 5.0000
RT 4.599 Area 8457022

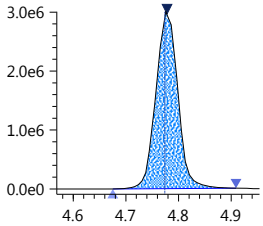
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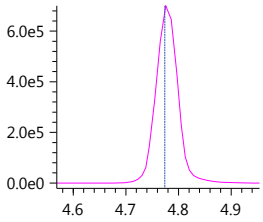
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Conc 9.7134
RT 4.778 Area 8663746
R#1 23.30 (0.00)

Q 463.00>418.90 (-) 3.01e6



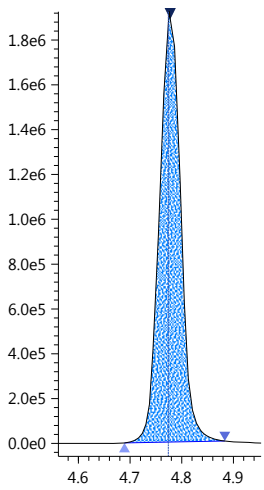
R1 463.00>219.00 (-) 7.00e5



PFNA-13C

Conc 3.9667
RT 4.778 Area 5482235

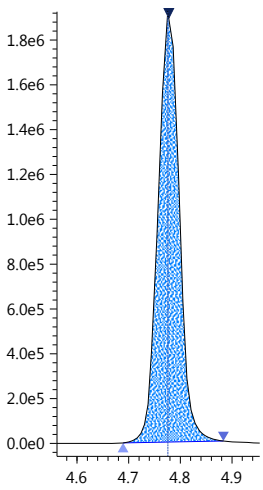
Q 467.80>423.00 (-) 1.93e6



PFNA-13C_IS

Conc 5.0000
RT 4.778 Area 5482235

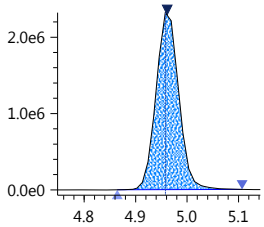
ISTD 467.80>423.00 (-) 1.93e6



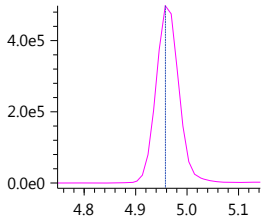
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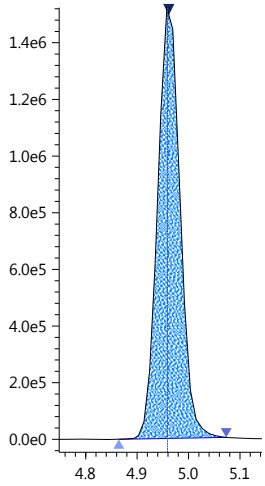
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Conc 9.8830
RT 4.961 Area 7141390
R#1 21.42 (0.00)
Q 513.00>468.80 (-) 2.32e6



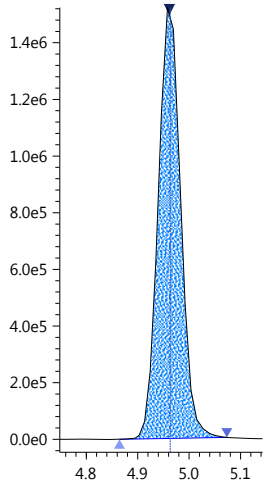
R1 513.00>219.10 (-) 4.98e5



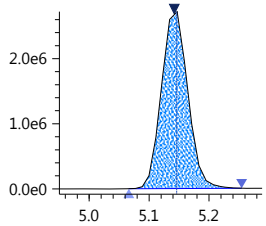
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Conc 4.0527
RT 4.962 Area 4633218
Q 514.80>469.95 (-) 1.52e6



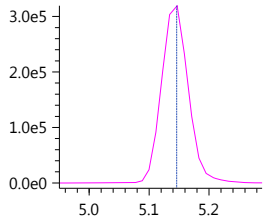
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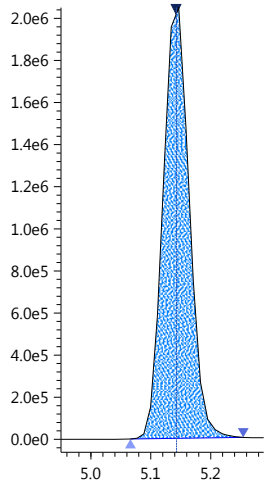
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Conc 10.2085
RT 5.142 Area 8345220
R#1 11.73 (0.00)
Q 563.00>518.90 (-) 2.72e6



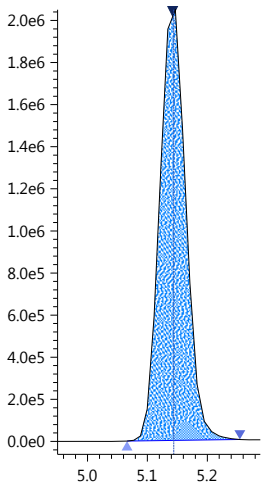
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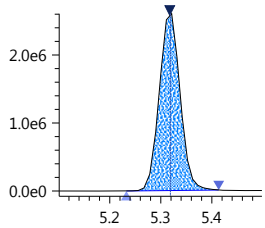
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Conc 4.8824
RT 5.142 Area 6273575
Q 564.80>519.95 (-) 2.05e6



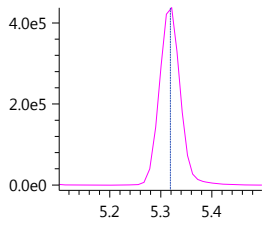
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ISTD 564.80>519.95 (-) 2.05e6



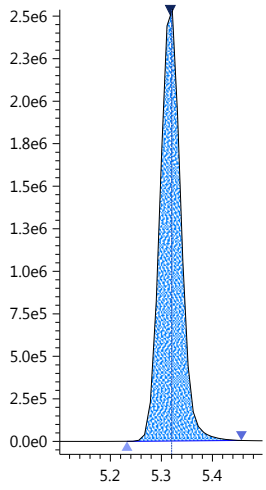
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Conc 9.8726
RT 5.318 Area 7370033
R#1 16.72 (0.00)
Q 613.05>569.00 (-) 2.61e6



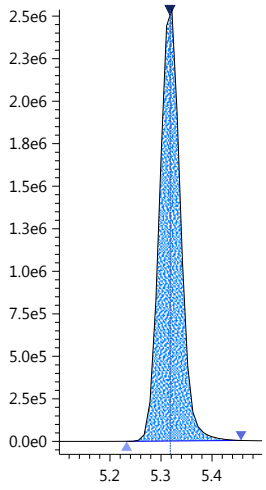
R1 613.05>169.00 (-) 4.37e5



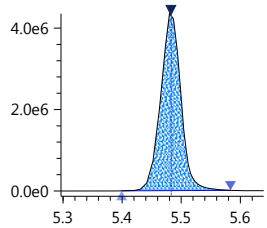
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Conc 4.6406
RT 5.317 Area 7236416
Q 614.80>569.95 (-) 2.54e6



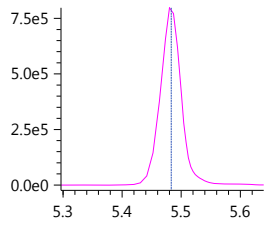
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ISTD 614.80>569.95 (-) 2.54e6



PFTrDA
Conc 10.0924
RT 5.483 Area 10372377
R#1 18.21 (0.00)
Q 663.00>618.90 (-) 4.35e6



R1 662.90>169.00 (-) 7.98e5



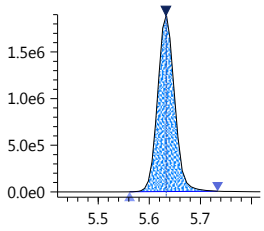
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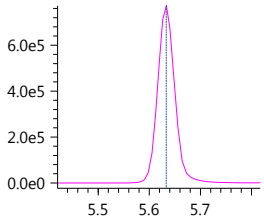
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Conc 10.1040
RT 5.632 Area 4354738
R#1 40.64 (0.00)

Q 713.40>669.00 (-) 1.90e6



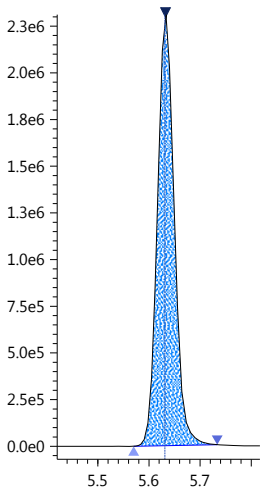
R1 713.40>169.10 (-) 7.72e5



PFTeDA-13C

Conc 4.2781
RT 5.633 Area 5295342

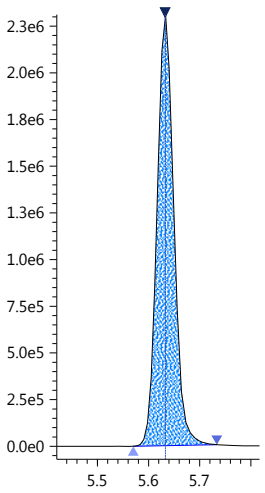
Q 714.70>669.90 (-) 2.31e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.633 Area 5295342

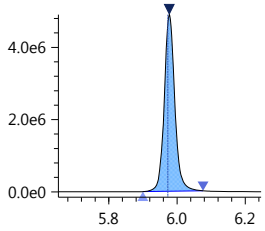
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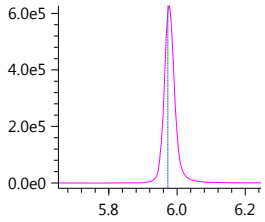
PFHxDA

Conc 9.9269
RT 5.977 Area 10473301
R#1 12.82 (0.00)

Q 813.00>769.05 (-) 4.91e6



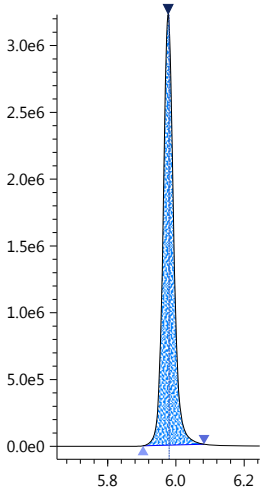
R1 813.00>218.95 (-) 6.27e5



13C-PFHxDA

Conc 4.3791
RT 5.977 Area 6927291

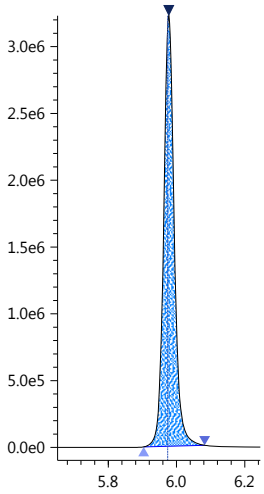
Q 815.00>770.05 (-) 3.23e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.977 Area 6927291

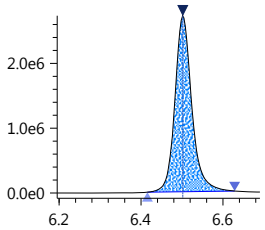
ISTD 815.00>770.05 (-) 3.23e6



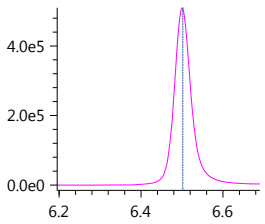
PFODA

Conc 9.6356
RT 6.502 Area 7768021
R#1 18.59 (0.00)

Q 913.00>868.85 (-) 2.74e6



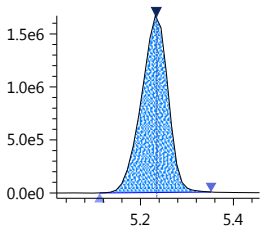
R1 913.00>169.00 (-) 5.10e5



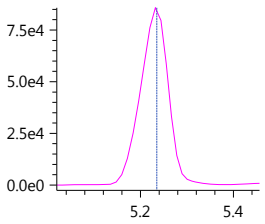
FOSA

Conc 9.5524
RT 5.234 Area 6673400
R#1 5.14 (0.00)

Q 498.20>78.00 (-) 1.67e6



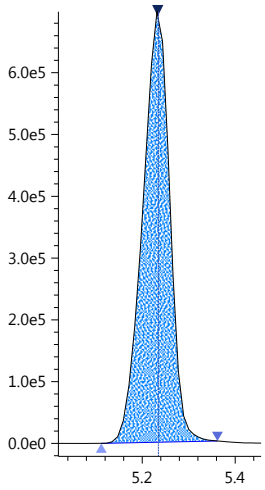
R1 498.20>64.10 (-) 8.58e4



FOSA-13C

Conc 4.1862
RT 5.233 Area 2827127

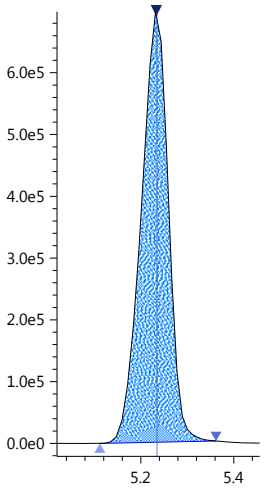
Q 506.00>78.05 (-) 6.99e5



FOSA-13C_IS

Conc 5.0000
RT 5.233 Area 2827127

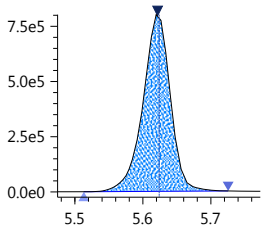
ISTD 506.00>78.05 (-) 6.99e5



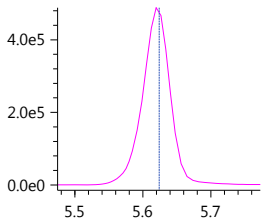
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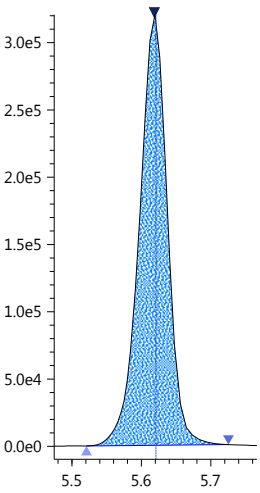
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Conc 8.7780
RT 5.622 Area 2237616
R#1 60.87 (0.00)
Q 512.00>169.10 (-) 8.03e5



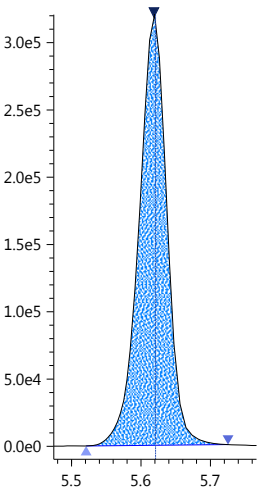
R1 512.00>219.00 (-) 4.88e5



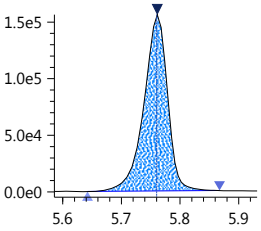
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Conc 4.3418
RT 5.619 Area 895665
Q 514.90>168.90 (-) 3.21e5



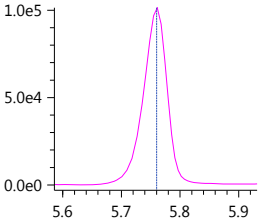
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.619 Area 895665
ISTD 514.90>168.90 (-) 3.21e5



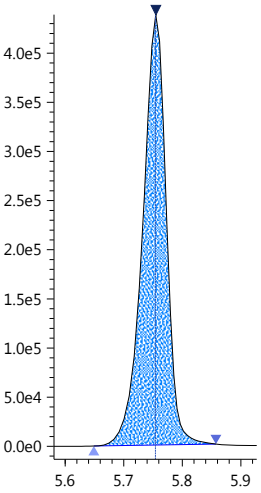
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Conc 9.3027
RT 5.761 Area 434910
R#1 64.88 (0.00)
Q 526.90>169.10 (-) 1.57e5



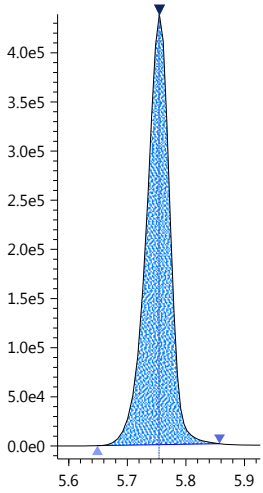
R1 526.90>219.00 (-) 1.01e5



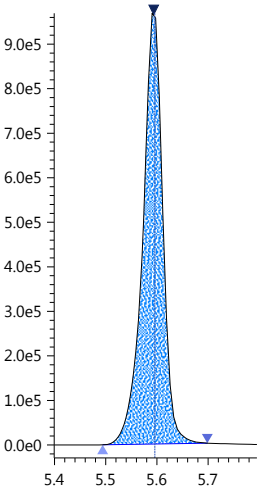
N-EtFOSA-d9
Conc 4.3555
RT 5.755 Area 1227884
Q 530.90>169.15 (-) 4.39e5



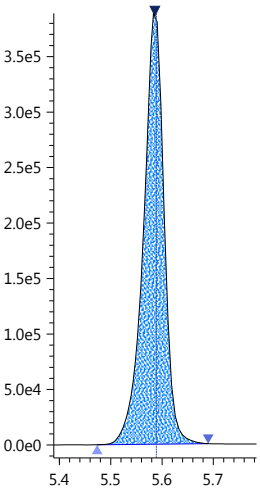
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Conc 5.0000
RT 5.755 Area 1227884
ISTD 530.90>169.15 (-) 4.39e5



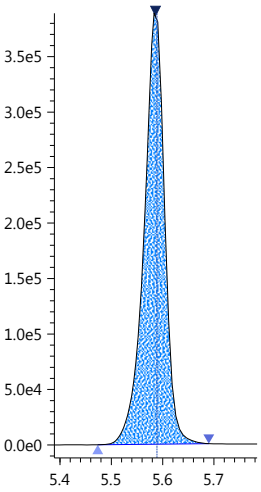
N-MeFOSE
Conc 9.4790
RT 5.594 Area 2636374
Q 616.00>59.00 (-) 9.69e5



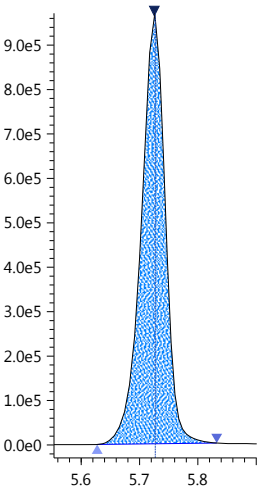
N-MeFOSE-d7
Conc 4.3558
RT 5.586 Area 1089512
Q 622.70>59.10 (-) 3.89e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.586 Area 1089512
ISTD 622.70>59.10 (-) 3.89e5



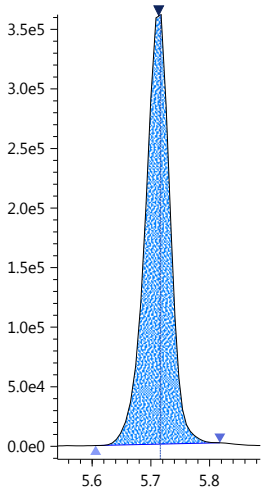
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Conc 9.8036
RT 5.725 Area 2765259
Q 630.00>58.90 (-) 9.72e5



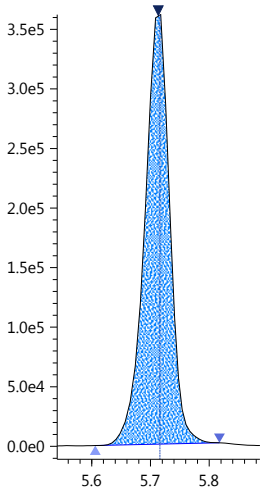
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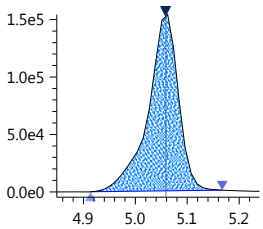
N-EtFOSE-d9
Conc 4.2200
RT 5.713 Area 1076097
Q 638.70>59.10 (-) 3.62e5



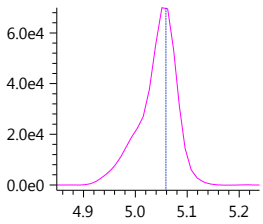
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.713 Area 1076097
ISTD 638.70>59.10 (-) 3.62e5



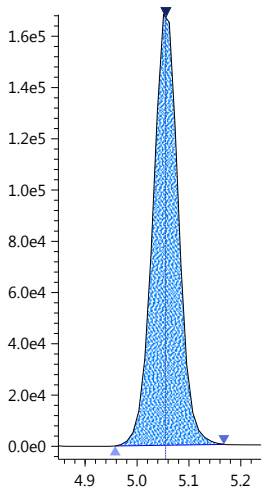
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Conc 8.1455
RT 5.058 Area 620448
R#1 45.14 (0.00)
Q 570.20>419.00 (-) 1.54e5



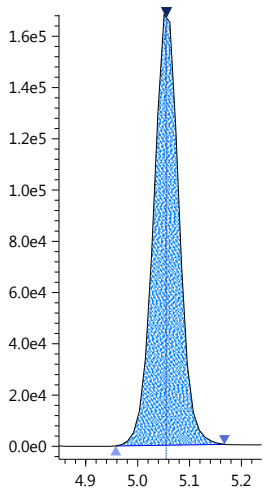
R1 570.20>512.00 (-) 7.00e4



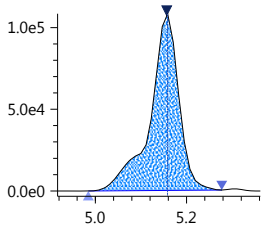
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Conc 4.6008
RT 5.056 Area 580474
Q 572.80>419.05 (-) 1.68e5



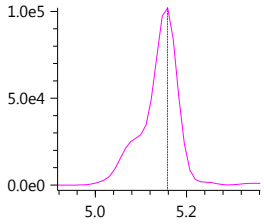
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.056 Area 580474
ISTD 572.80>419.05 (-) 1.68e5



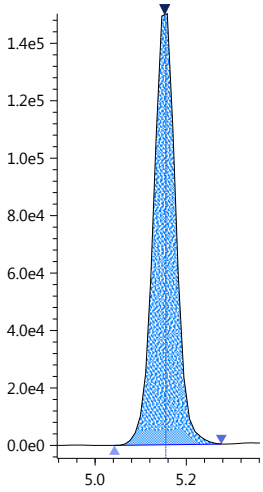
N-EtFOSAA
Conc 9.7220
RT 5.156 Area 472497
R#1 94.54 (0.00)
Q 584.20>418.95 (-) 1.08e5



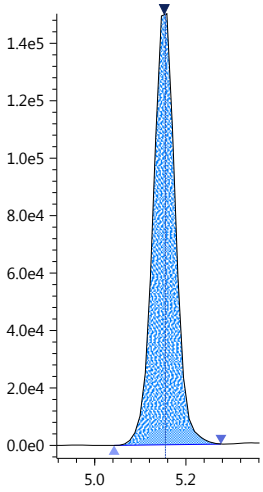
R1 584.20>526.10 (-) 1.02e5



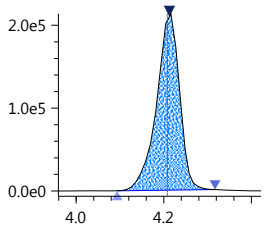
N-EtFOSAA-d5
Conc 4.4982
RT 5.153 Area 518206
Q 588.80>419.00 (-) 1.50e5



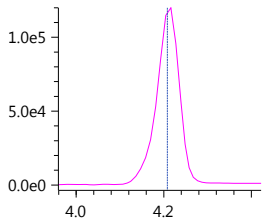
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.153 Area 518206
ISTD 588.80>419.00 (-) 1.50e5



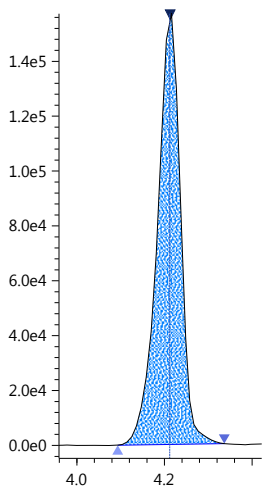
4_2-FTS_1
Conc 7.7081
RT 4.213 Area 774680
R#1 56.54 (0.00)
Q 327.00>307.05 (-) 2.14e5



R1 327.00>81.10 (-) 1.20e5



4_2-FTS-13C
Conc 4.0457
RT 4.213 Area 578281
Q 328.80>309.05 (-) 1.57e5

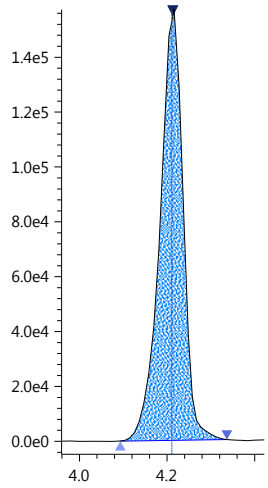


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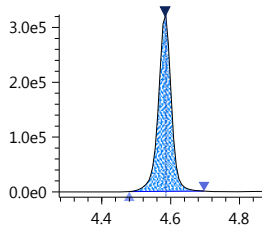
4_2-FTS-13C_IS
Conc 5.0000
RT 4.213 Area 578281

ISTD 328.80>309.05 (-) 1.57e5

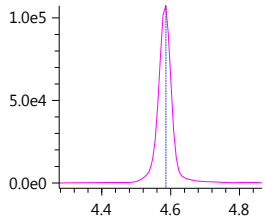


6_2-FTS_1
Conc 8.5769
RT 4.584 Area 842877
R#1 33.07 (0.00)

Q 427.00>407.00 (-) 3.24e5

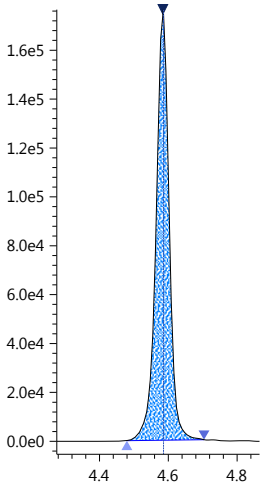


R1 427.00>80.90 (-) 1.07e5



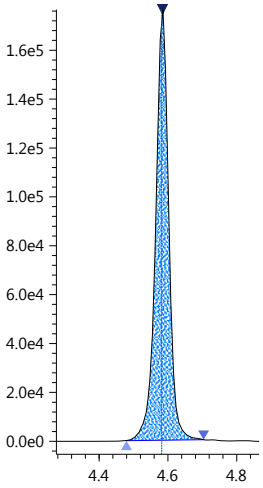
6_2-FTS-13C
Conc 3.8611
RT 4.584 Area 465950

Q 428.90>409.00 (-) 1.77e5



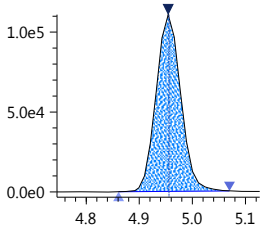
6_2-FTS-13C_IS
Conc 5.0000
RT 4.584 Area 465950

ISTD 428.90>409.00 (-) 1.77e5

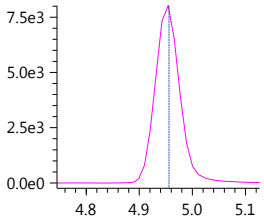


8_2-FTS_1
Conc 7.2586
RT 4.954 Area 357159
R#1 7.18 (0.00)

Q 527.10>506.90 (-) 1.11e5

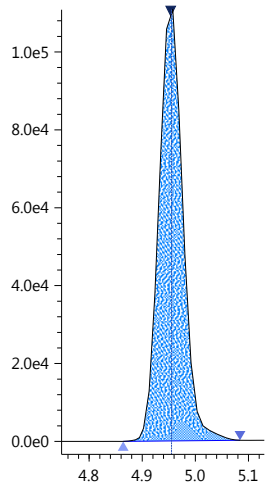


R1 527.20>487.00 (-) 8.02e3



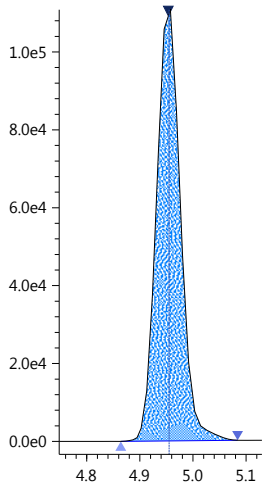
8_2-FTS-13C
Conc 4.4310
RT 4.953 Area 349334

Q 528.80>509.00 (-) 1.11e5



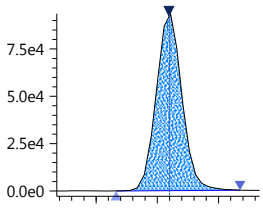
8_2-FTS-13C_IS
Conc 5.0000
RT 4.953 Area 349334

ISTD 528.80>509.00 (-) 1.11e5

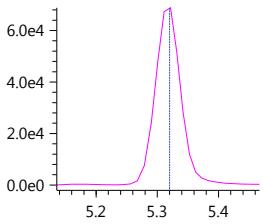


10_2-FtS_1
Conc 9.0114
RT 5.319 Area 272459
R#1 73.12 (0.00)

Q 627.00>606.95 (-) 9.36e4

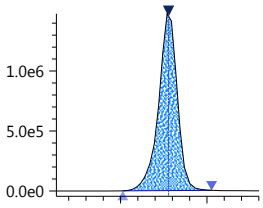


R1 627.00>81.25 (-) 6.88e4

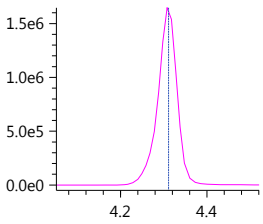


HPFO_DA
Conc 10.7698
RT 4.311 Area 4449328
R#1 111.54 (0.00)

Q 329.00>169.00 (-) 1.48e6

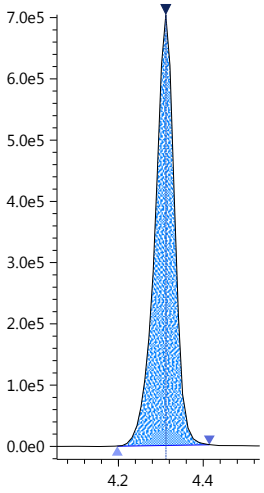


R1 329.00>285.10 (-) 1.65e6



HFPO_DA-13C
Conc 4.3953
RT 4.312 Area 2289566

Q 332.00>286.80 (-) 7.05e5



Insight Report

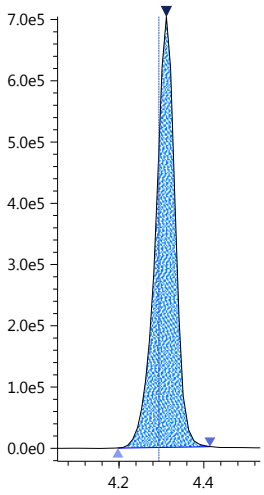
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HFPO_DA-13C_IS

Conc 5.0000

RT 4.312 Area 2289566

ISTD 332.00>286.80 (-) 7.05e5



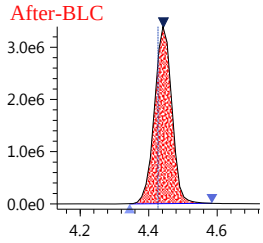
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Conc 9.4179

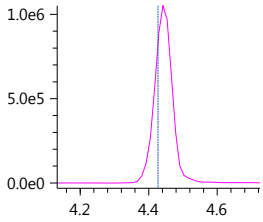
RT 4.443 Area 11982042

R#1 30.88 (0.00)

Q 377.00>251.00 (-) 3.39e6



R1 377.00>84.95 (-) 1.05e6



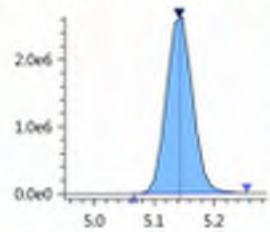
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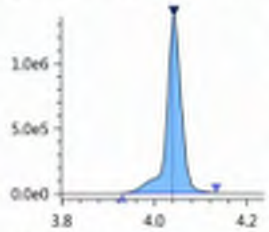
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Sample ID: 10.0 PPB ICAL
Date acquired: 9/17/2019 4:44:44 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_011.lcd
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

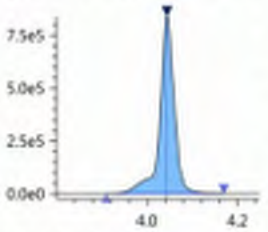
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Conc 5.0000
RT 5.142 Area 8106361
ISTD 570.00>525.00 (-) 2.64e6



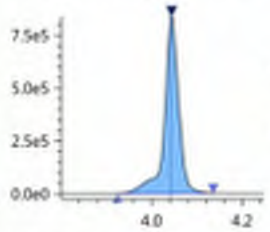
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Conc 7.9705
RT 4.042 Area 2984371
Q 299.00>80.00 (-) 1.36e6



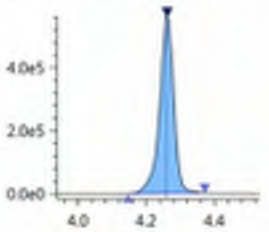
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Conc 4.9332
RT 4.044 Area 1858705
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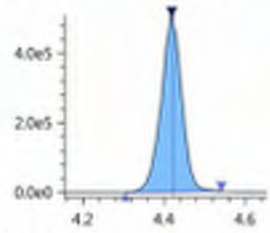
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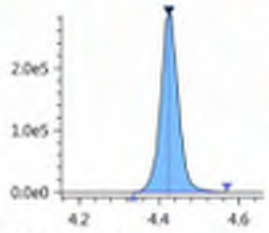
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Conc 7.9832
RT 4.261 Area 1643657
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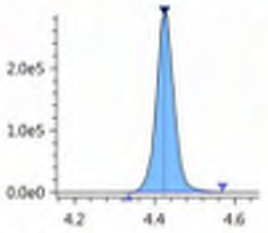
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RT 4.419 Area 1800503
Q 399.00>80.00 (-) 5.09e5



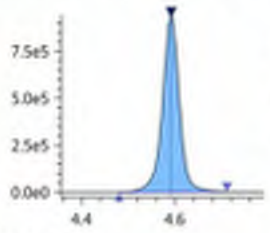
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RT 4.425 Area 883030
Q 402.70>84.05 (-) 2.86e5



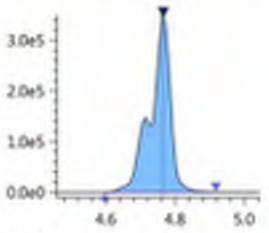
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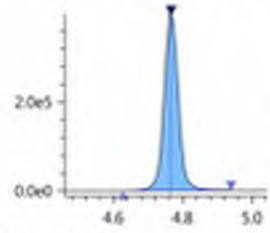
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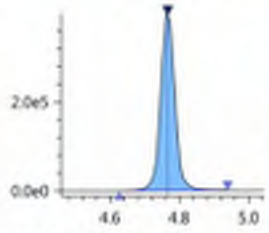
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Q 499.00>80.00 (-) 3.49e5



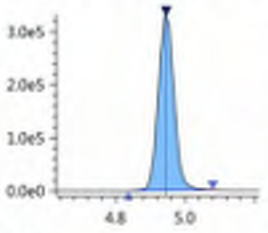
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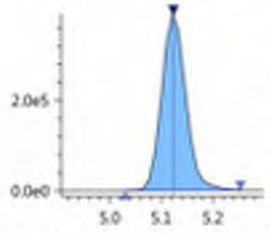
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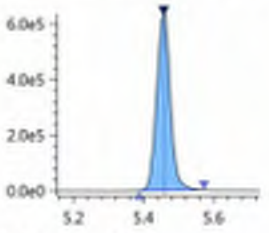
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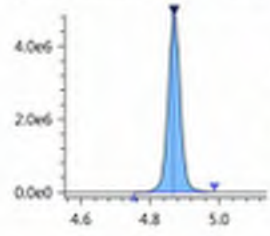
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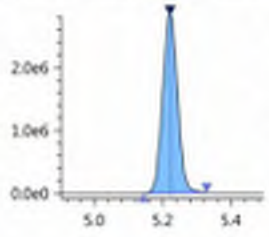
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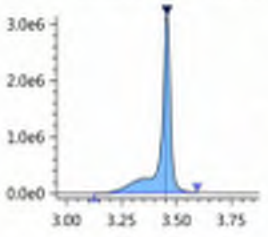
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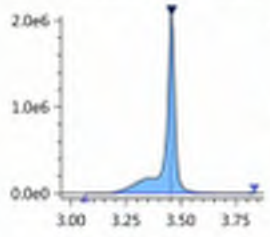
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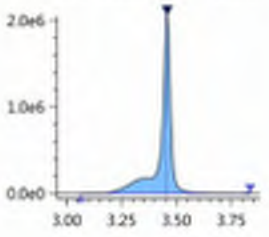
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Conc 9.9072
RT 3.457 Area 9573023
Q 213.00>169.10 (-) 3.14e6



PFBA-13C
Conc 4.3289
RT 3.457 Area 6426260
Q 216.90>172.15 (-) 2.05e6



PFBA-13C_IS
Conc 5.0000
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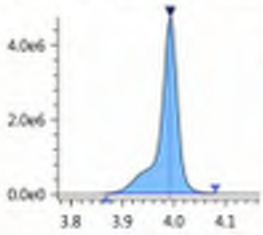
Manual Integration - Before

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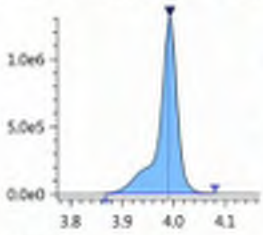
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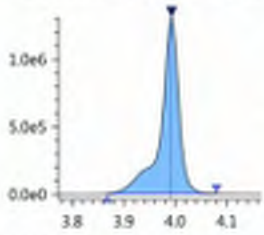
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Q 263.05>219.10 (-) 4.76e6



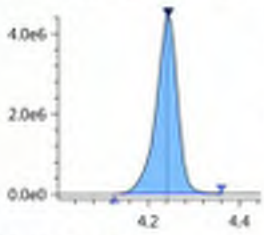
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Q 267.90>223.00 (-) 1.31e6



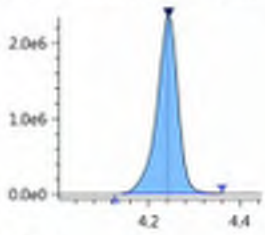
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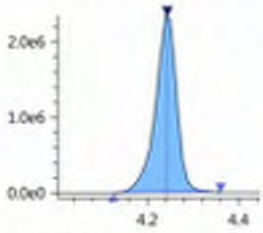
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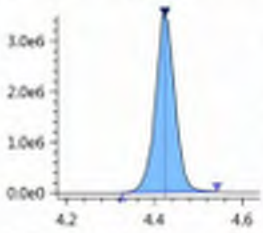
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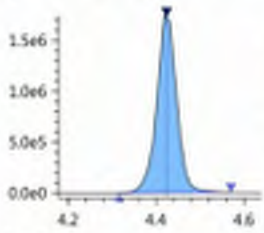
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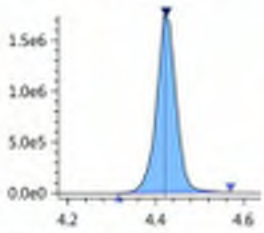
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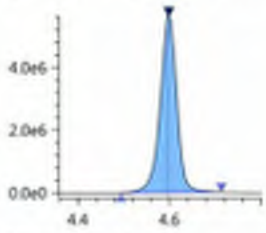
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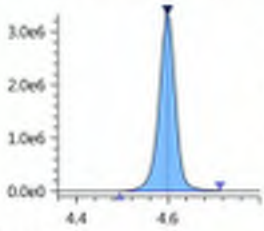
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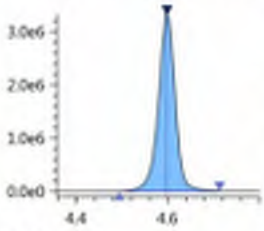
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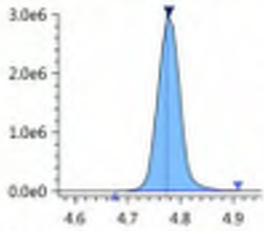
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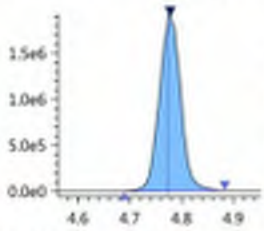
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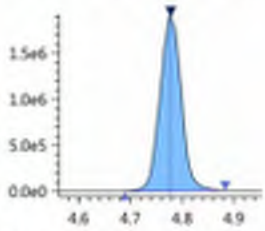
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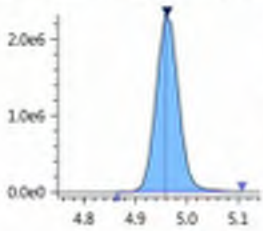
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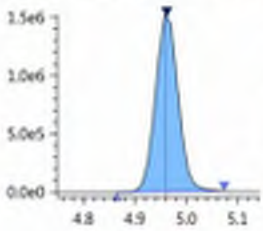
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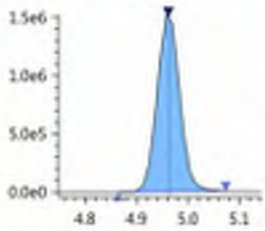
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Q 513.00>468.80 (-) 2.32e6



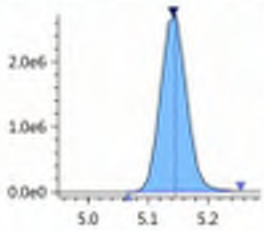
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Q 514.80>469.95 (-) 1.52e6



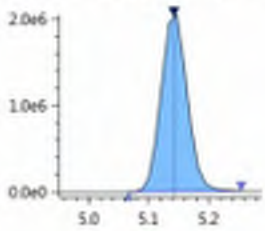
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ISTD 514.80>469.95 (-) 1.52e6



PFUnA
Conc 9.3039
RT 5.142 Area 8345220
Q 563.00>518.90 (-) 2.72e6



PFUnA-13C
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Q 564.80>519.95 (-) 2.05e6

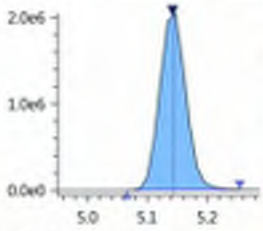


Manual Integration - Before

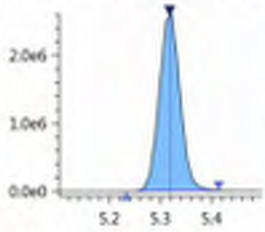
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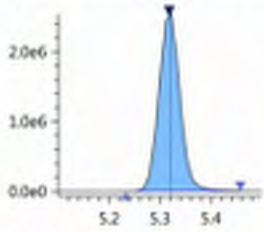
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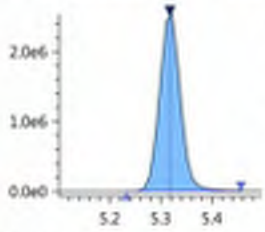
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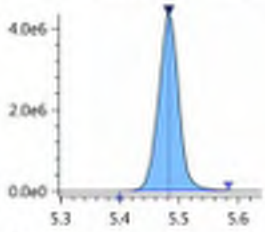
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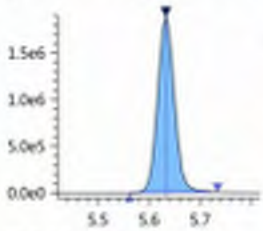
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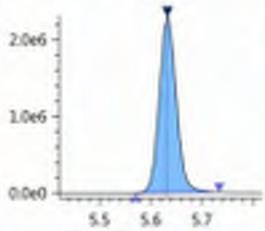
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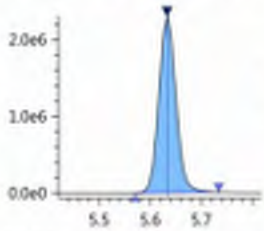
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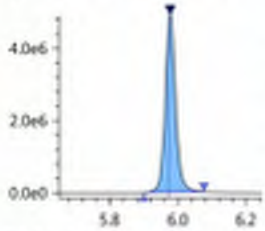
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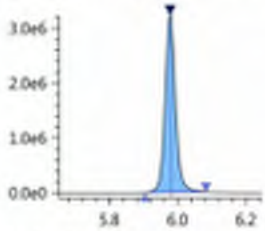
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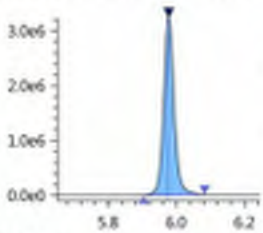
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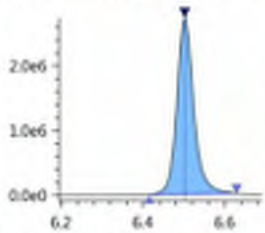
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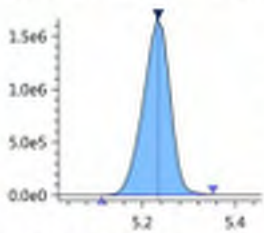
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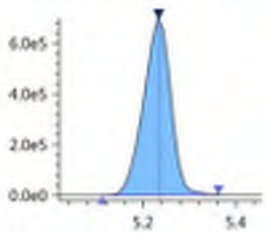
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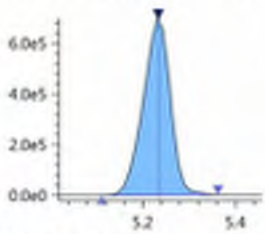
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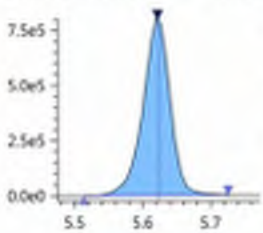
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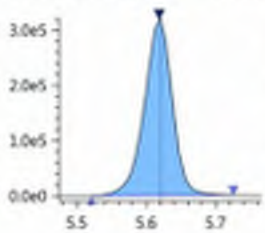
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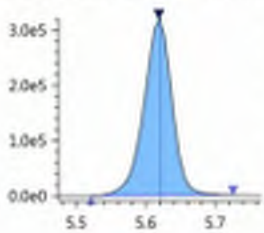
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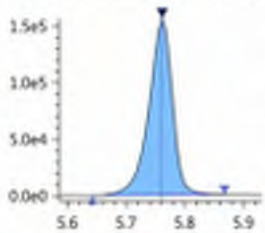
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Q 514.90>168.90 (-) 3.21e5



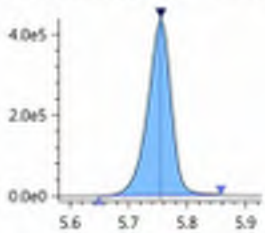
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Q 526.90>169.10 (-) 1.57e5



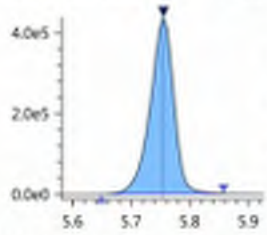
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Q 530.90>169.15 (-) 4.39e5



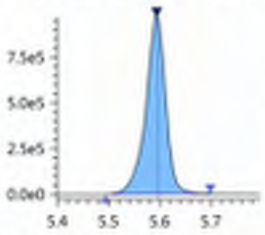
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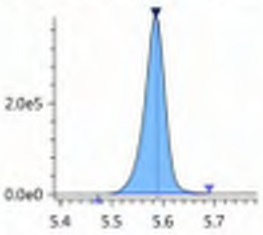
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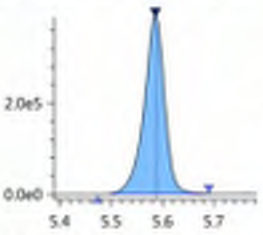
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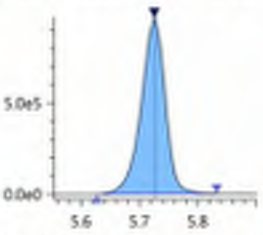
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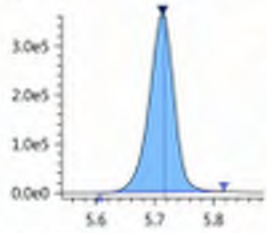
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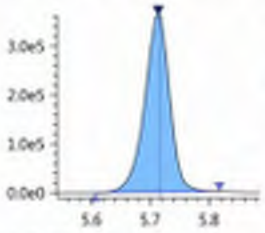
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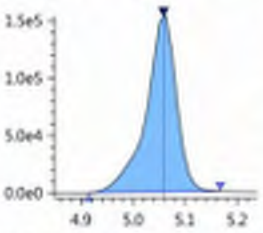
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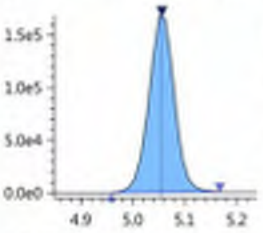
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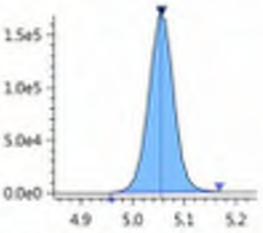
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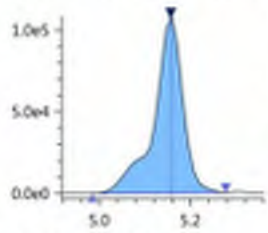
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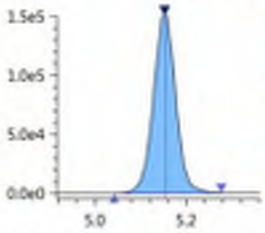
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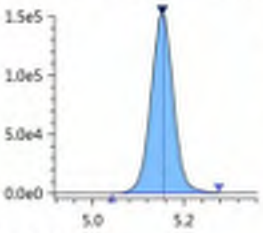
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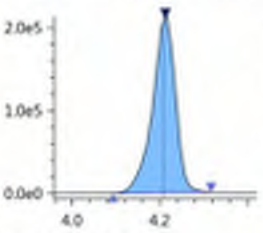
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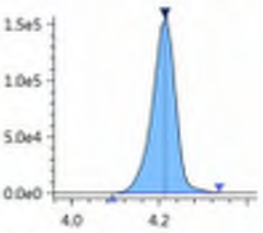
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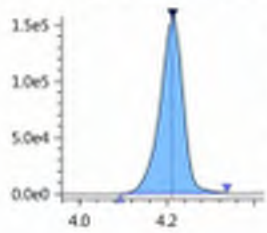
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Q 327.00>307.05 (-) 2.14e5



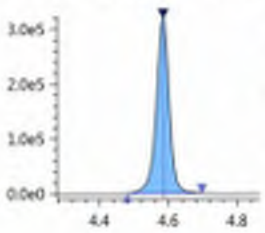
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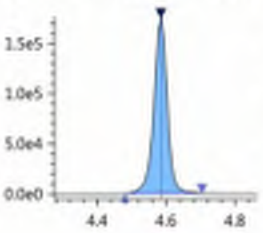
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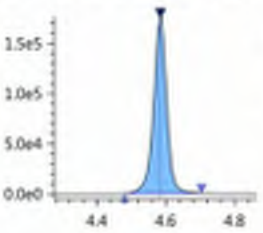
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Conc 8.5820
RT 4.584 Area 842877
Q 427.00>407.00 (-) 3.24e5



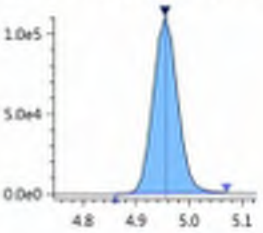
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Conc 3.8611
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Q 428.90>409.00 (-) 1.77e5



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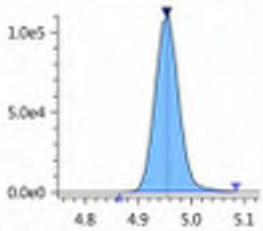
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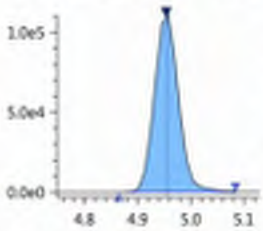
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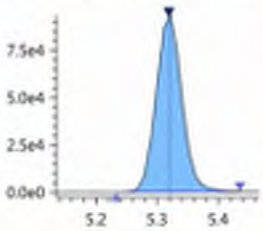
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Conc 4.4310
RT 4.953 Area 349334
Q 528.80>509.00 (-) 1.11e5



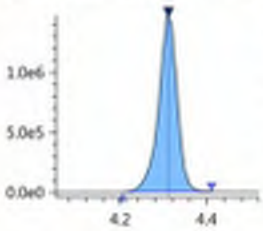
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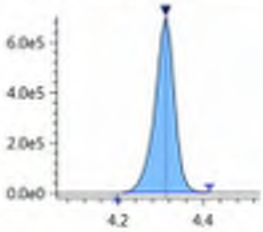
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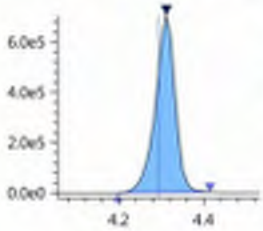
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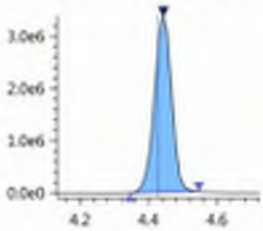
HFPO_DA-13C
Conc 3.8875
RT 4.312 Area 2289566
Q 332.00>286.80 (-) 7.05e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.312 Area 2289566
ISTD 332.00>286.80 (-) 7.05e5



ADONA
Conc 9.3923
RT 4.443 Area 11860982
Q 377.00>251.00 (-) 3.39e6



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190917_012

Sample ID: 15.0 PPB ICAL
Date acquired: 9/17/2019 4:55:23 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_012.lcd
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.150	6013308	6013308	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.046	3408588	1374058	2	12.2217	ng/mL	13.3106
PFBS-13C	Auto	4.047	1376802	6013308	1	4.9261	ng/mL	5.0000
PFBS-13C_IS	Auto	4.047	1374058	1374058	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.265	1952165	1374058	2	13.5263	ng/mL	14.1138
PFHxS_1	Auto	4.421	2261761	673677	3	14.1932	ng/mL	13.6961
PFHxS-18O	Auto	4.429	673677	6013308	1	4.8699	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.429	673677	673677	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.597	3619000	673677	3	17.4360	ng/mL	14.3016
PFOS_1	Auto	4.769	2027323	1075941	4	13.7321	ng/mL	13.9384
PFOS-13C	Auto	4.770	1075941	6013308	1	5.3364	ng/mL	5.0000
PFOS-13C_IS	Auto	4.770	1075941	1075941	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.950	1566990	1075941	4	13.7715	ng/mL	14.4237
PFDS_1	Auto	5.129	2444945	1075941	4	16.5441	ng/mL	14.4700
PFDOS	Auto	5.464	2619338	1075941	4	14.5397	ng/mL	14.5434
9Cl-PF3ONS	Auto	4.877	18150417	2723703	26	12.9716	ng/mL	13.9986
11Cl-PF3OUdS	Auto	5.230	9231519	2723703	26	9.6134	ng/mL	14.1479
PFBA	Auto	3.460	14430935	6225258	5	15.0051	ng/mL	15.0000
PFBA-13C	Auto	3.459	6225258	6013308	1	5.7059	ng/mL	5.0000
PFBA-13C_IS	Auto	3.459	6225258	6225258	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.997	16745842	3140732	6	15.0163	ng/mL	15.0000
PFPeA-13C	Auto	3.997	3140732	6013308	1	5.6664	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.997	3140732	3140732	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.249	21016092	7065764	7	15.5452	ng/mL	15.0000
PFHxA-13C	Auto	4.249	7065764	6013308	1	5.2886	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.249	7065764	7065764	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.426	12545588	4308618	8	14.9377	ng/mL	15.0000
PFHpA-13C	Auto	4.426	4308618	6013308	1	4.7682	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.426	4308618	4308618	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.604	18430239	7279196	9	15.4040	ng/mL	15.0000
PFOA-13C	Auto	4.604	7279196	6013308	1	5.0003	ng/mL	5.0000
PFOA-13C_IS	Auto	4.604	7279196	7279196	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.782	14098959	5572764	10	15.5654	ng/mL	15.0000
PFNA-13C	Auto	4.782	5572764	6013308	1	5.4357	ng/mL	5.0000
PFNA-13C_IS	Auto	4.782	5572764	5572764	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.967	9473214	4210516	11	14.4319	ng/mL	15.0000
PFDA-13C	Auto	4.967	4210516	6013308	1	4.9649	ng/mL	5.0000
PFDA-13C_IS	Auto	4.967	4210516	4210516	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.150	9975347	5052229	12	15.1632	ng/mL	15.0000
PFUnA-13C	Auto	5.151	5052229	6013308	1	5.3004	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.151	5052229	5052229	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.324	10132722	6580874	13	14.9130	ng/mL	15.0000
PFDoA-13C	Auto	5.325	6580874	6013308	1	5.6892	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.325	6580874	6580874	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.491	15370833	5142734	14	15.4021	ng/mL	15.0000
PFTeDA	Auto	5.638	6234554	5142734	14	14.9652	ng/mL	15.0000
PFTeDA-13C	Auto	5.638	5142734	6013308	1	5.6010	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.638	5142734	5142734	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.981	15670730	6860201	15	15.0337	ng/mL	15.0000
13C-PFHxDA	Auto	5.981	6860201	6013308	1	5.8461	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.981	6860201	6860201	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.506	11675418	6860201	15	14.6241	ng/mL	15.0000
FOSA	Auto	5.244	11026814	3135152	16	14.2332	ng/mL	15.0000
FOSA-13C	Auto	5.244	3135152	6013308	1	6.2581	ng/mL	5.0000
FOSA-13C_IS	Auto	5.244	3135152	3135152	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.629	3389070	881616	17	13.5069	ng/mL	15.0000
N-MeFOSA-d3	Auto	5.626	881616	6013308	1	5.7612	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.626	881616	881616	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.768	665804	1219660	18	14.3375	ng/mL	15.0000
N-EtFOSA-d9	Auto	5.762	1219660	6013308	1	5.8322	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.762	1219660	1219660	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.600	4048947	1133530	19	13.9926	ng/mL	15.0000
N-MeFOSE-d7	Auto	5.593	1133530	6013308	1	6.1092	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.593	1133530	1133530	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.732	4221799	1146413	20	14.0493	ng/mL	15.0000
N-EtFOSE-d9	Auto	5.720	1146413	6013308	1	6.0606	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.720	1146413	1146413	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.066	1061170	562409	21	14.3790	ng/mL	15.0000

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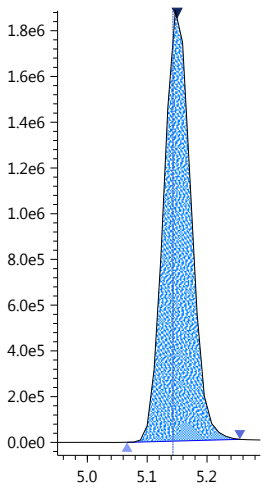
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.064	562409	6013308	1	6.0091	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.064	562409	562409	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.163	838575	499327	22	17.9066	ng/mL	15.0000
N-EtFOSAA-d5	Auto	5.161	499327	6013308	1	5.8430	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.161	499327	499327	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.219	1496264	789858	23	10.8999	ng/mL	14.0583
4_2-FTS-13C	Auto	4.219	789858	6013308	1	7.4493	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.219	789858	789858	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.589	1366513	522996	24	12.3885	ng/mL	14.2676
6_2-FTS-13C	Auto	4.589	522996	6013308	1	5.8422	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.589	522996	522996	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.960	636463	353371	25	12.7872	ng/mL	14.4007
8_2-FTS-13C	Auto	4.962	353371	6013308	1	6.0424	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.962	353371	353371	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.326	451894	353371	25	14.7753	ng/mL	14.4929
HPFO_DA	Auto	4.315	5228594	2723703	26	10.6387	ng/mL	15.0000
HFPO_DA-13C	Auto	4.315	2723703	6013308	1	7.0487	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.315	2723703	2723703	26	5.0000	ng/mL	5.0000
ADONA	M	4.446	21094020	2723703	26	13.9373	ng/mL	14.1758

13C7-PFUnDA_IS

Conc 5.0000
RT 5.150 Area 6013308

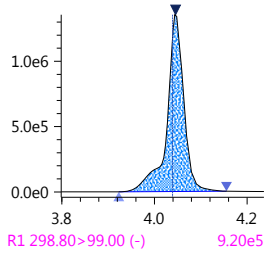
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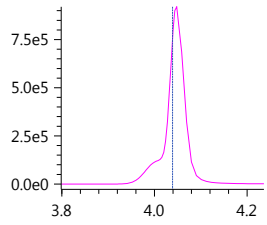
PFBS_1

Conc 12.2217
RT 4.046 Area 3408588
R#1 67.76 (0.00)

Q 299.00>80.00 (-) 1.36e6



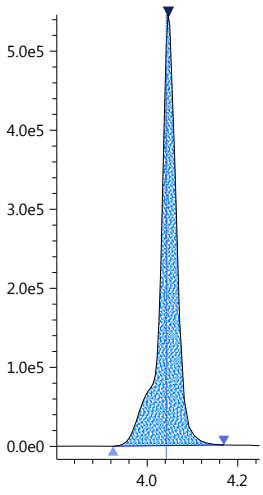
R1 298.80>99.00 (-) 9.20e5



PFBS-13C

Conc 4.9261
RT 4.047 Area 1376802

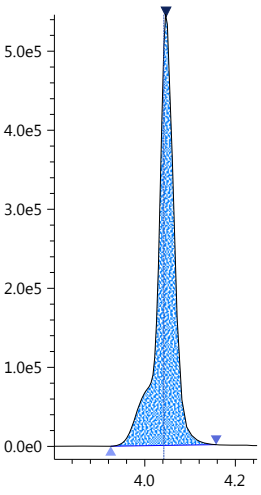
Q 301.80>80.00 (-) 5.46e5



PFBS-13C_IS

Conc 5.0000
RT 4.047 Area 1374058

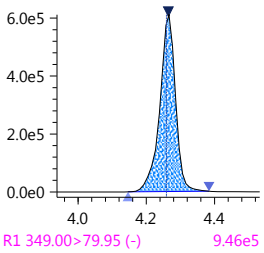
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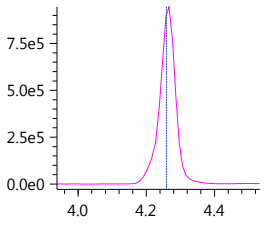
PFPeS

Conc 13.5263
RT 4.265 Area 1952165
R#1 155.23 (0.00)

Q 349.00>99.00 (-) 6.12e5



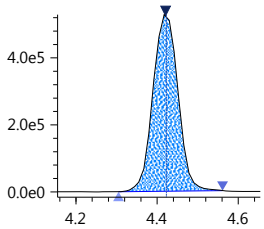
R1 349.00>79.95 (-) 9.46e5



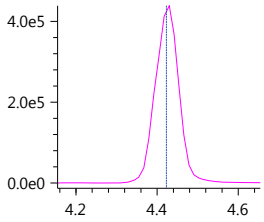
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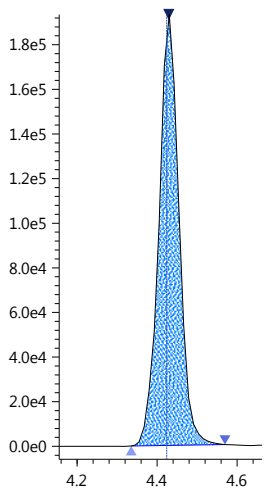
PFHxS_1
Conc 14.1932
RT 4.421 Area 2261761
R#1 77.46 (0.00)
Q 399.00>80.00 (-) 5.29e5



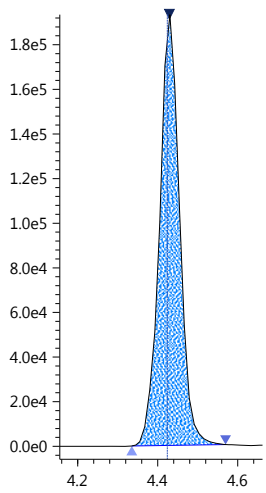
R1 399.00>99.00 (-) 4.39e5



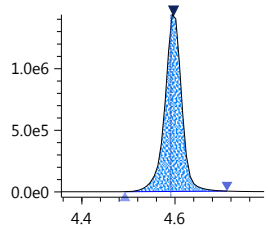
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Conc 4.8699
RT 4.429 Area 673677
Q 402.70>84.05 (-) 1.93e5



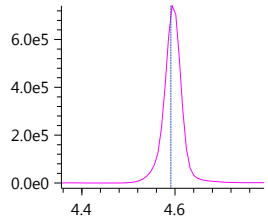
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Conc 5.0000
RT 4.429 Area 673677
ISTD 402.70>84.05 (-) 1.93e5



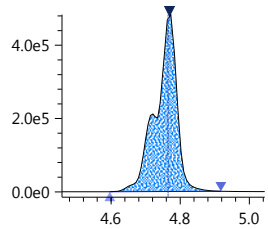
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Conc 17.4360
RT 4.597 Area 3619000
R#1 51.61 (0.00)
Q 449.00>80.15 (-) 1.44e6



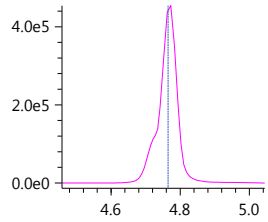
R1 449.00>99.20 (-) 7.41e5



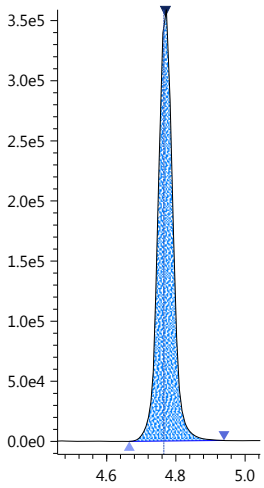
PFOS_1
Conc 13.7321
RT 4.769 Area 2027323
R#1 93.29 (0.00)
Q 499.00>80.00 (-) 4.83e5



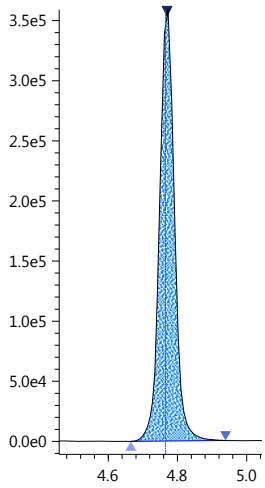
R1 499.00>99.00 (-) 4.54e5



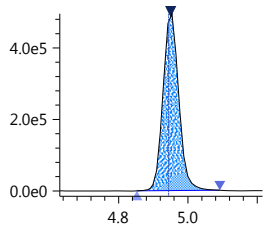
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Conc 5.3364
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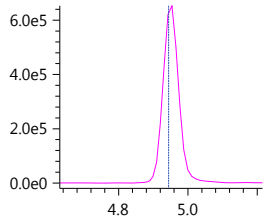
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RT 4.770 Area 1075941
ISTD 502.80>80.05 (-) 3.59e5



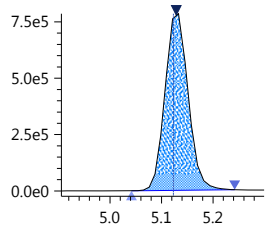
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Conc 13.7715
RT 4.950 Area 1566990
R#1 132.24 (0.00)
Q 549.00>99.00 (-) 4.96e5



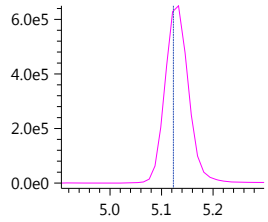
R1 549.00>79.95 (-) 6.53e5



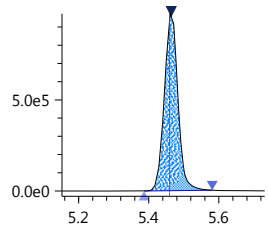
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Conc 16.5441
RT 5.129 Area 2444945
R#1 82.84 (0.00)
Q 599.00>79.90 (-) 7.86e5



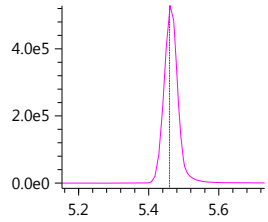
R1 599.00>99.10 (-) 6.50e5



PFDOS
Conc 14.5397
RT 5.464 Area 2619338
R#1 54.45 (0.00)
Q 699.00>79.95 (-) 9.73e5



R1 699.00>99.05 (-) 5.28e5



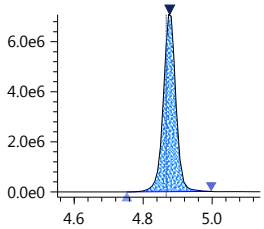
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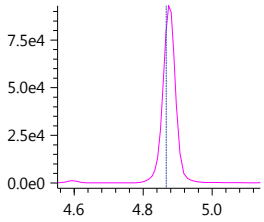
9Cl-PF3ONS

Conc 12.9716
RT 4.877 Area 18150417
R#1 1.32 (0.00)

Q 531.00>351.00 (-) 7.08e6



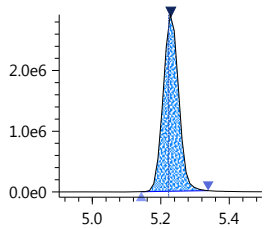
R1 531.00>98.90 (-) 9.30e4



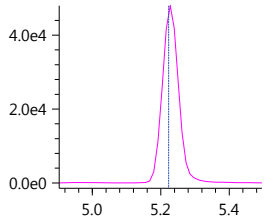
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Conc 9.6134
RT 5.230 Area 9231519
R#1 1.65 (0.00)

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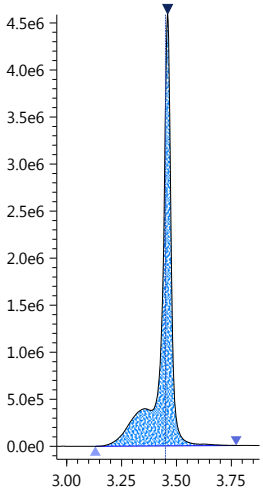
R1 631.00>98.90 (-) 4.80e4



PFBA

Conc 15.0051
RT 3.460 Area 14430935

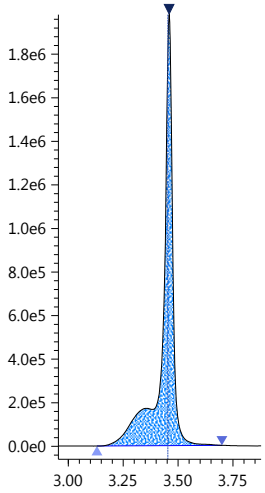
Q 213.00>169.10 (-) 4.59e6



PFBA-13C

Conc 5.7059
RT 3.459 Area 6225258

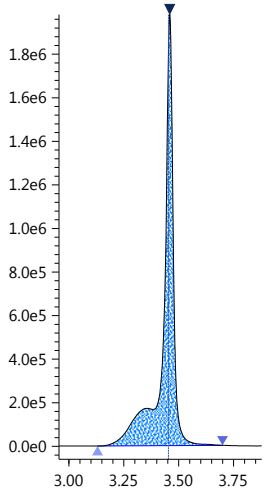
Q 216.90>172.15 (-) 1.98e6



PFBA-13C_IS

Conc 5.0000
RT 3.459 Area 6225258

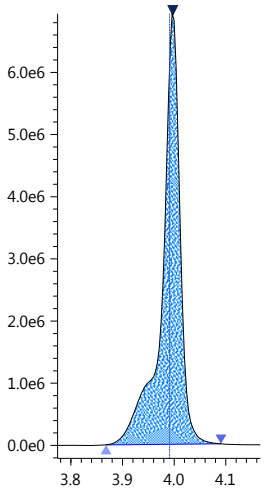
ISTD 216.90>172.15 (-) 1.98e6



PFPeA

Conc 15.0163
RT 3.997 Area 16745842

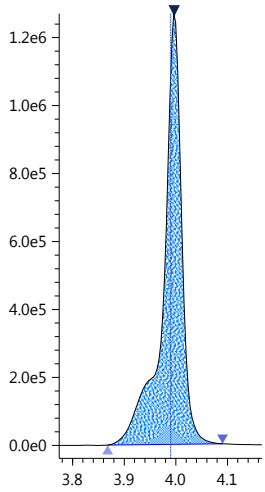
Q 263.05>219.10 (-) 6.94e6



PFPeA-13C

Conc 5.6664
RT 3.997 Area 3140732

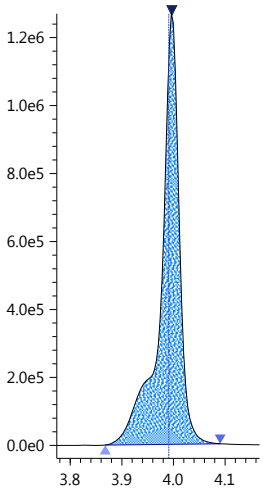
Q 267.90>223.00 (-) 1.27e6



PFPeA-13C_IS

Conc 5.0000
RT 3.997 Area 3140732

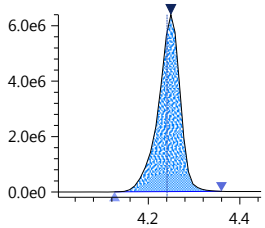
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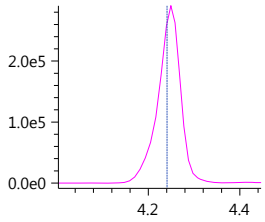
PFHxA

Conc 15.5452
RT 4.249 Area 21016092
R#1 4.55 (0.00)

Q 313.00>269.00 (-) 6.40e6



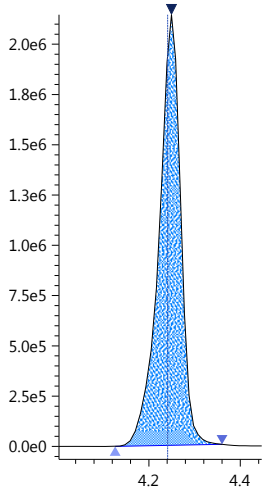
R1 313.00>119.10 (-) 2.91e5



PFHxA-13C

Conc 5.2886
RT 4.249 Area 7065764

Q 314.90>270.10 (-) 2.15e6



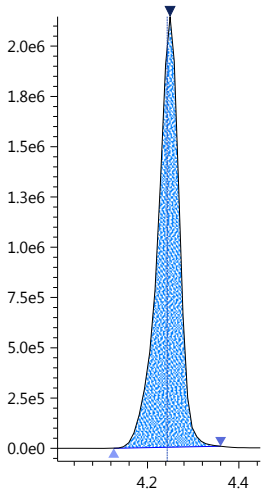
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PFHxA-13C_IS

Conc 5.0000
RT 4.249 Area 7065764

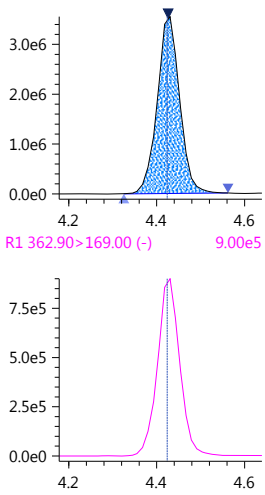
ISTD 314.90>270.10 (-) 2.15e6



PFHpA

Conc 14.9377
RT 4.426 Area 12545588
R#1 25.27 (0.00)

Q 362.90>319.00 (-) 3.56e6

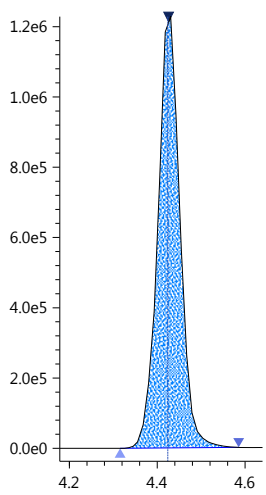


R1 362.90>169.00 (-) 9.00e5

PFHpA-13C

Conc 4.7682
RT 4.426 Area 4308618

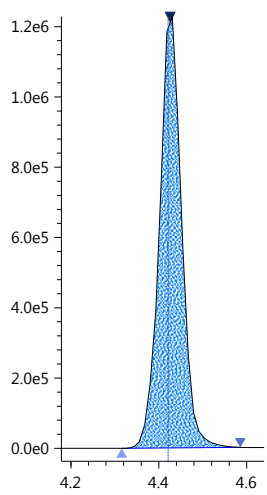
Q 366.90>322.10 (-) 1.23e6



PFHpA-13C_IS

Conc 5.0000
RT 4.426 Area 4308618

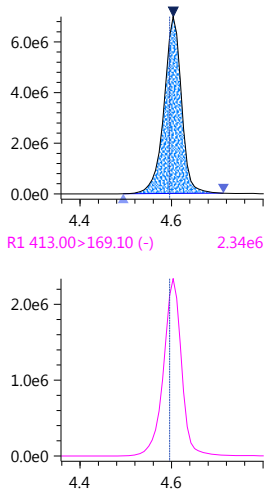
ISTD 366.90>322.10 (-) 1.23e6



PFOA

Conc 15.4040
RT 4.604 Area 18430239
R#1 33.43 (0.00)

Q 413.00>369.00 (-) 7.00e6

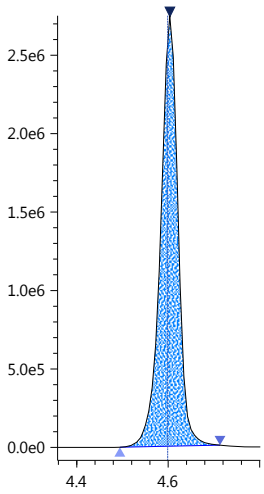


R1 413.00>169.10 (-) 2.34e6

PFOA-13C

Conc 5.0003
RT 4.604 Area 7279196

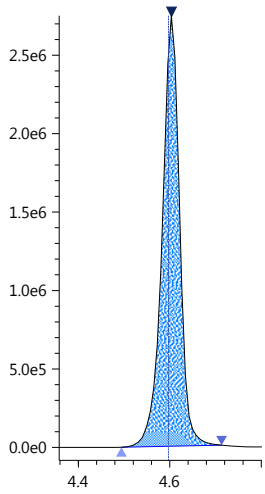
Q 416.80>372.05 (-) 2.75e6



PFOA-13C_IS

Conc 5.0000
RT 4.604 Area 7279196

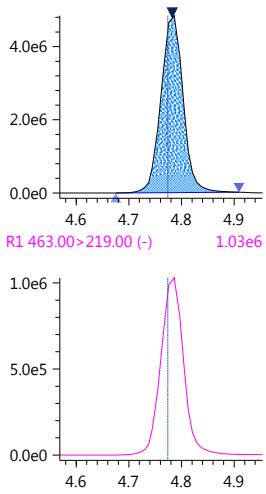
ISTD 416.80>372.05 (-) 2.75e6



PFNA

Conc 15.5654
RT 4.782 Area 14098959
R#1 21.30 (0.00)

Q 463.00>418.90 (-) 4.84e6

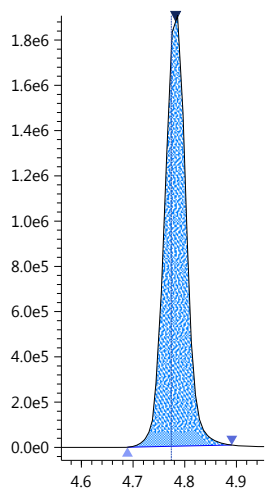


R1 463.00>219.00 (-) 1.03e6

PFNA-13C

Conc 5.4357
RT 4.782 Area 5572764

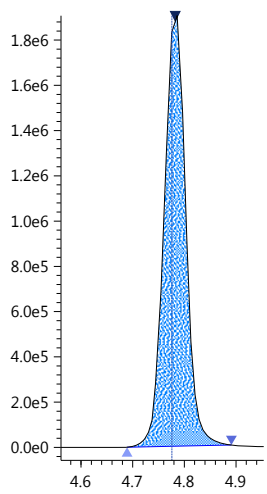
Q 467.80>423.00 (-) 1.91e6



PFNA-13C_IS

Conc 5.0000
RT 4.782 Area 5572764

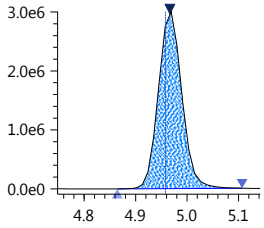
ISTD 467.80>423.00 (-) 1.91e6



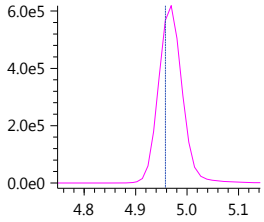
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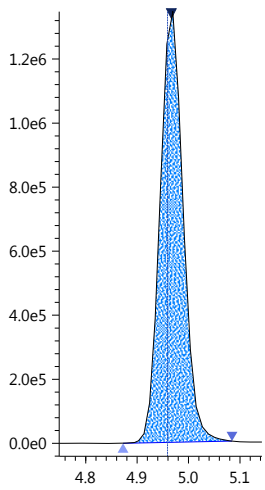
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Conc 14.4319
RT 4.967 Area 9473214
R#1 20.59 (0.00)
Q 513.00>468.80 (-) 3.01e6



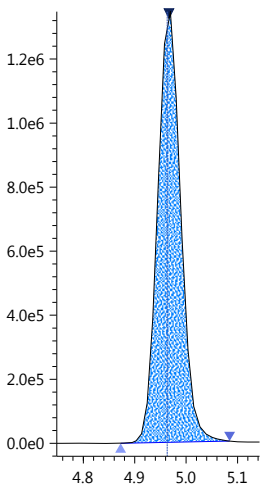
R1 513.00>219.10 (-) 6.19e5



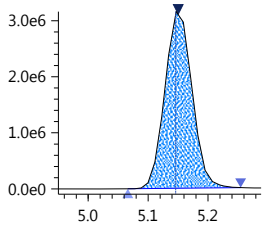
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Conc 4.9649
RT 4.967 Area 4210516
Q 514.80>469.95 (-) 1.35e6



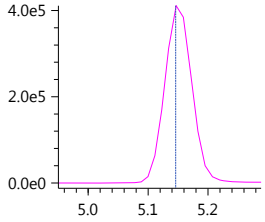
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Conc 5.0000
RT 4.967 Area 4210516
ISTD 514.80>469.95 (-) 1.35e6



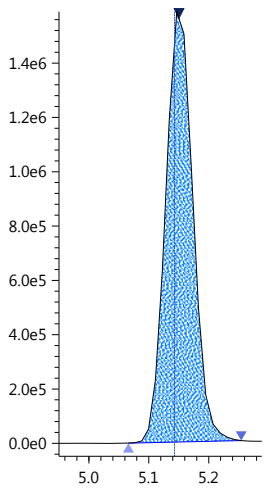
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Conc 15.1632
RT 5.150 Area 9975347
R#1 13.01 (0.00)
Q 563.00>518.90 (-) 3.16e6



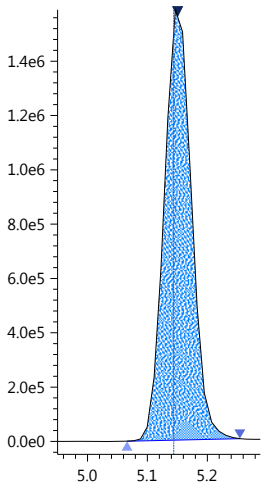
R1 563.00>219.00 (-) 4.11e5



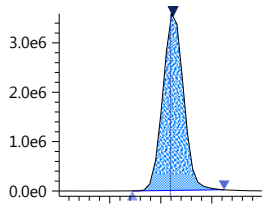
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Conc 5.3004
RT 5.151 Area 5052229
Q 564.80>519.95 (-) 1.59e6



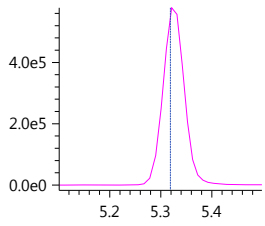
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Conc 5.0000
RT 5.151 Area 5052229
ISTD 564.80>519.95 (-) 1.59e6



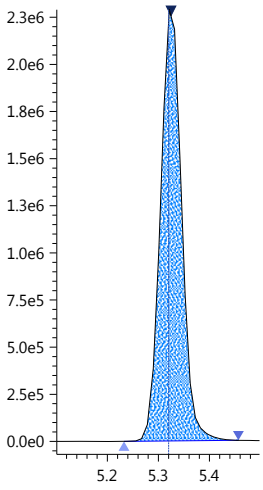
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Conc 14.9130
RT 5.324 Area 10132722
R#1 16.12 (0.00)
Q 613.05>569.00 (-) 3.59e6



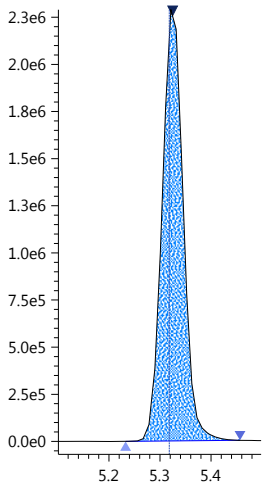
R1 613.05>169.00 (-) 5.78e5



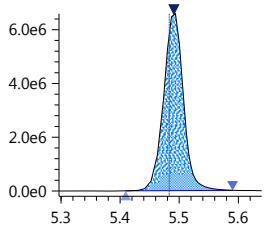
PFDoA-13C
Conc 5.6892
RT 5.325 Area 6580874
Q 614.80>569.95 (-) 2.29e6



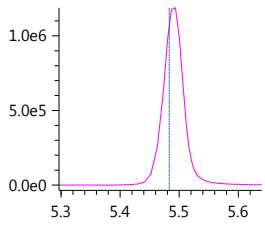
PFDoA-13C_IS
Conc 5.0000
RT 5.325 Area 6580874
ISTD 614.80>569.95 (-) 2.29e6



PFTrDA
Conc 15.4021
RT 5.491 Area 15370833
R#1 17.97 (0.00)
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R1 662.90>169.00 (-) 1.19e6



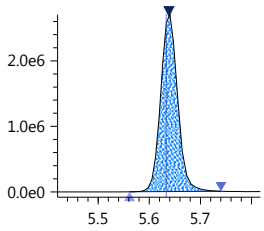
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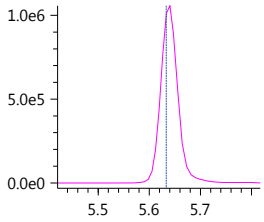
PFTeDA

Conc 14.9652
RT 5.638 Area 6234554
R#1 39.13 (0.00)

Q 713.40>669.00 (-) 2.71e6



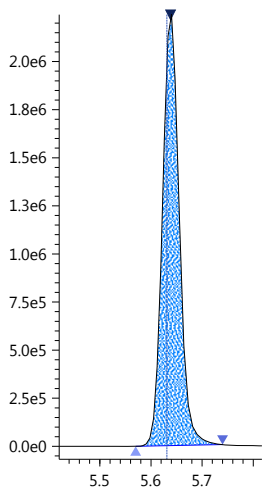
R1 713.40>169.10 (-) 1.06e6



PFTeDA-13C

Conc 5.6010
RT 5.638 Area 5142734

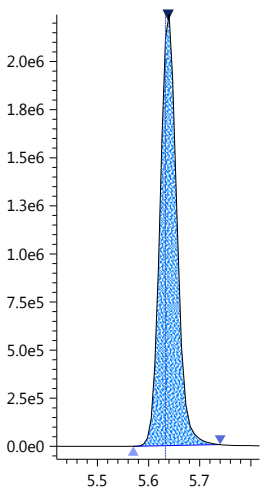
Q 714.70>669.90 (-) 2.24e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.638 Area 5142734

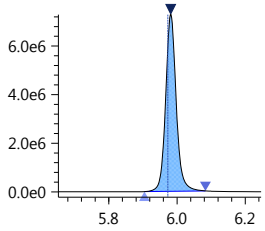
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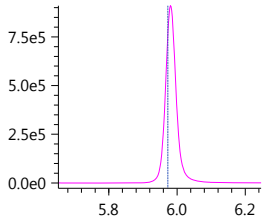
PFHxDA

Conc 15.0337
RT 5.981 Area 15670730
R#1 12.34 (0.00)

Q 813.00>769.05 (-) 7.29e6



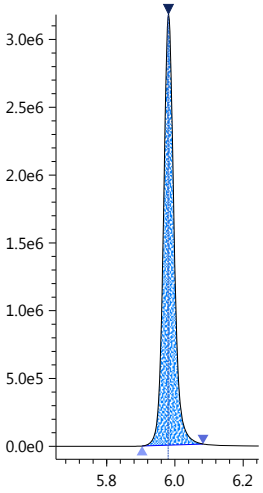
R1 813.00>218.95 (-) 9.10e5



13C-PFHxDA

Conc 5.8461
RT 5.981 Area 6860201

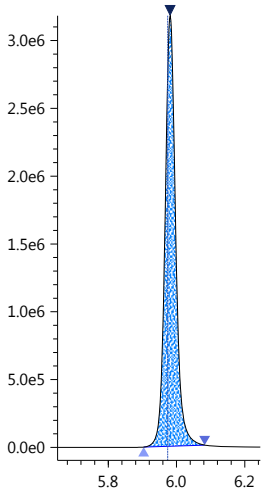
Q 815.00>770.05 (-) 3.18e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.981 Area 6860201

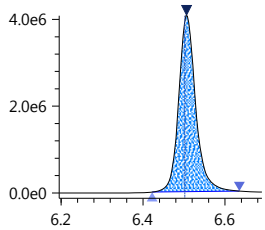
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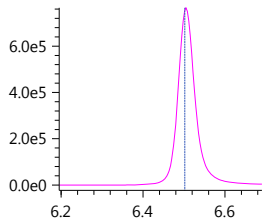
PFODA

Conc 14.6241
RT 6.506 Area 11675418
R#1 18.73 (0.00)

Q 913.00>868.85 (-) 4.08e6



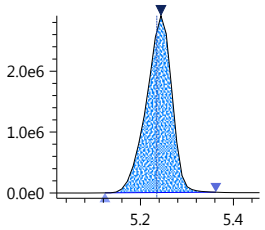
R1 913.00>169.00 (-) 7.66e5



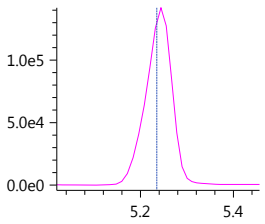
FOSA

Conc 14.2332
RT 5.244 Area 11026814
R#1 4.88 (0.00)

Q 498.20>78.00 (-) 2.91e6



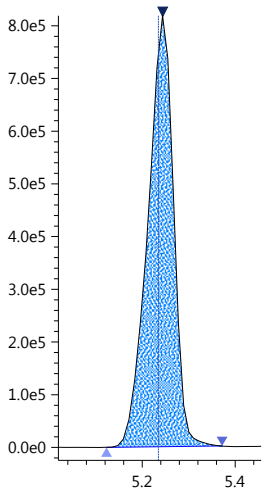
R1 498.20>64.10 (-) 1.42e5



FOSA-13C

Conc 6.2581
RT 5.244 Area 3135152

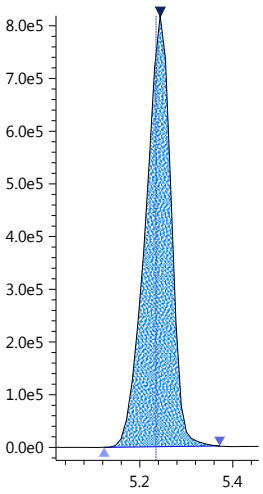
Q 506.00>78.05 (-) 8.19e5



FOSA-13C_IS

Conc 5.0000
RT 5.244 Area 3135152

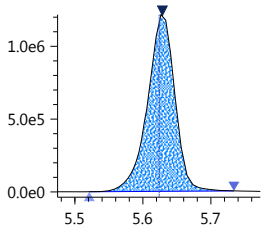
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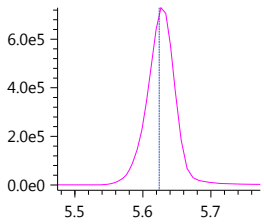
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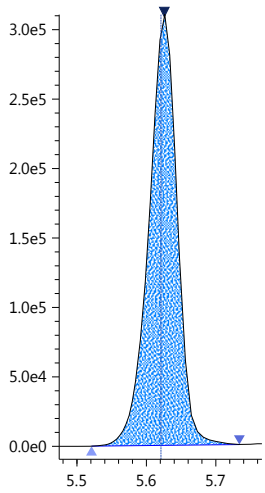
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Conc 13.5069
RT 5.629 Area 3389070
R#1 59.91 (0.00)
Q 512.00>169.10 (-) 1.22e6



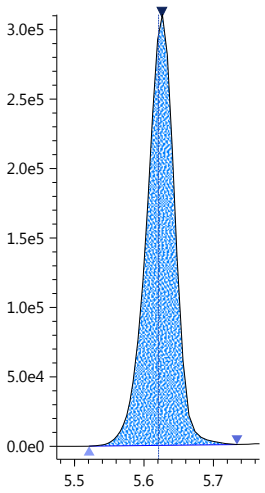
R1 512.00>219.00 (-) 7.30e5



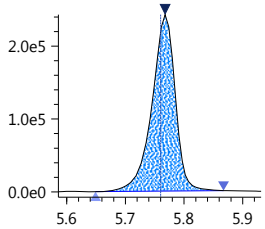
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Conc 5.7612
RT 5.626 Area 881616
Q 514.90>168.90 (-) 3.11e5



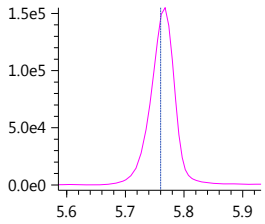
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Conc 5.0000
RT 5.626 Area 881616
ISTD 514.90>168.90 (-) 3.11e5



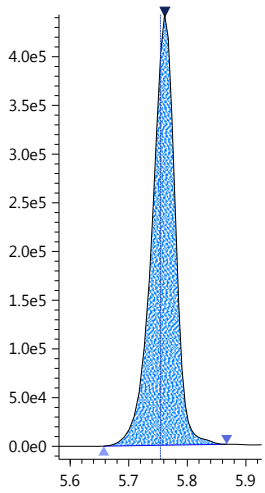
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Conc 14.3375
RT 5.768 Area 665804
R#1 63.85 (0.00)
Q 526.90>169.10 (-) 2.43e5



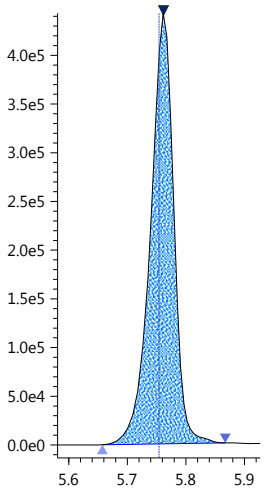
R1 526.90>219.00 (-) 1.55e5



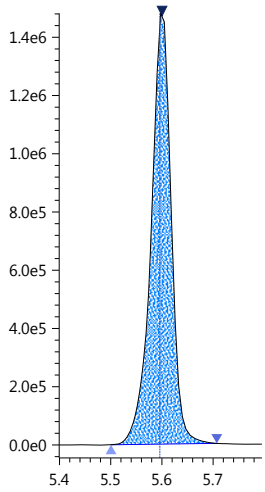
N-EtFOSA-d9
Conc 5.8322
RT 5.762 Area 1219660
Q 530.90>169.15 (-) 4.43e5



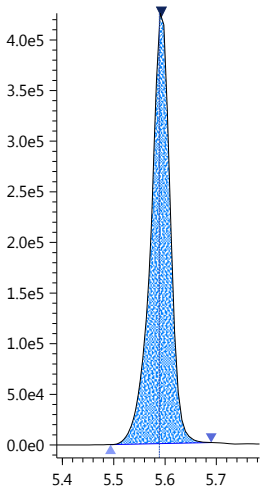
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Conc 5.0000
RT 5.762 Area 1219660
ISTD 530.90>169.15 (-) 4.43e5



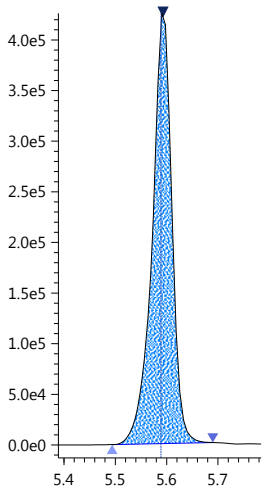
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RT 5.600 Area 4048947
Q 616.00>59.00 (-) 1.48e6



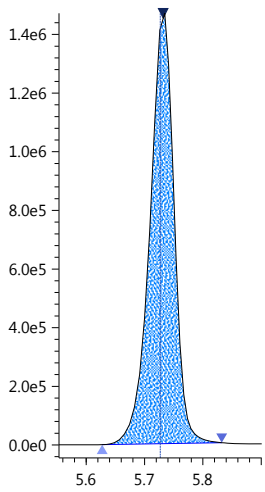
N-MeFOSE-d7
Conc 6.1092
RT 5.593 Area 1133530
Q 622.70>59.10 (-) 4.26e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.593 Area 1133530
ISTD 622.70>59.10 (-) 4.26e5



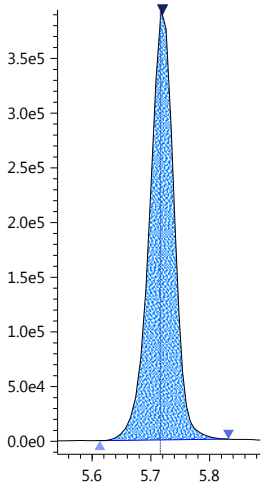
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Conc 14.0493
RT 5.732 Area 4221799
Q 630.00>58.90 (-) 1.47e6



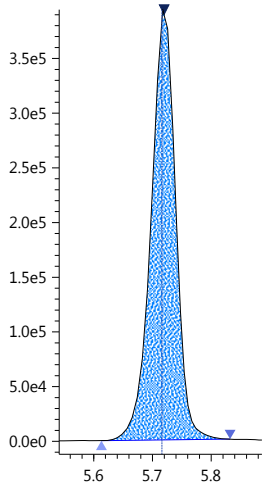
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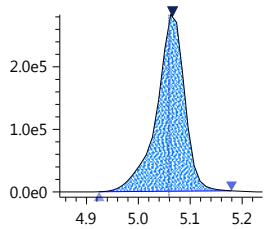
N-EtFOSE-d9
Conc 6.0606
RT 5.720 Area 1146413
Q 638.70>59.10 (-) 3.95e5



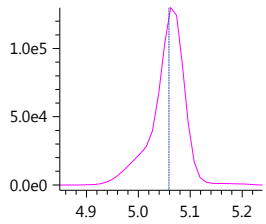
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Conc 5.0000
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ISTD 638.70>59.10 (-) 3.95e5



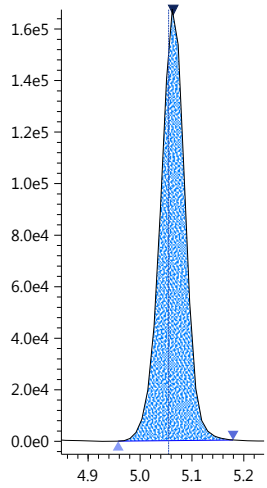
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Conc 14.3790
RT 5.066 Area 1061170
R#1 45.63 (0.00)
Q 570.20>419.00 (-) 2.84e5



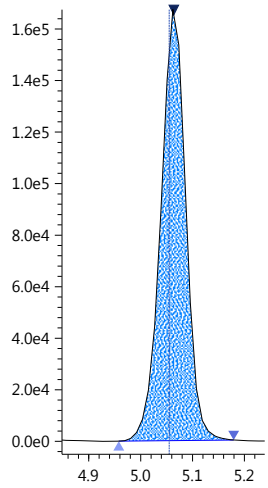
R1 570.20>512.00 (-) 1.30e5



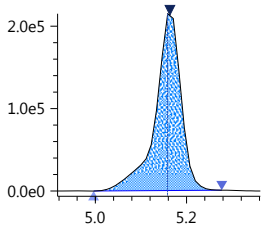
N-MeFOSAA-d3
Conc 6.0091
RT 5.064 Area 562409
Q 572.80>419.05 (-) 1.68e5



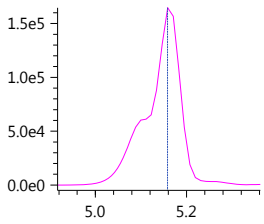
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.064 Area 562409
ISTD 572.80>419.05 (-) 1.68e5



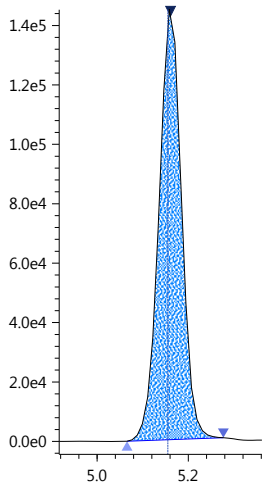
N-EtFOSAA
Conc 17.9066
RT 5.163 Area 838575
R#1 75.96 (0.00)
Q 584.20>418.95 (-) 2.15e5



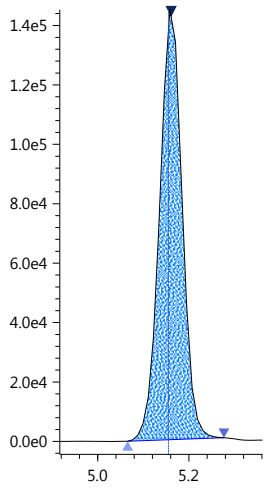
R1 584.20>526.10 (-) 1.65e5



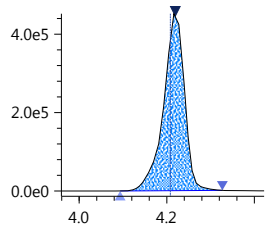
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Conc 5.8430
RT 5.161 Area 499327
Q 588.80>419.00 (-) 1.45e5



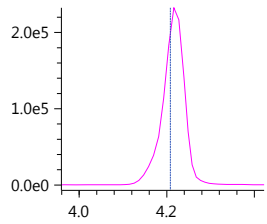
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Conc 5.0000
RT 5.161 Area 499327
ISTD 588.80>419.00 (-) 1.45e5



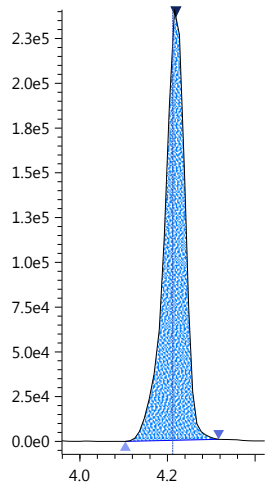
4_2-FTS_1
Conc 10.8999
RT 4.219 Area 1496264
R#1 51.35 (0.00)
Q 327.00>307.05 (-) 4.52e5



R1 327.00>81.10 (-) 2.32e5



4_2-FTS-13C
Conc 7.4493
RT 4.219 Area 789858
Q 328.80>309.05 (-) 2.41e5

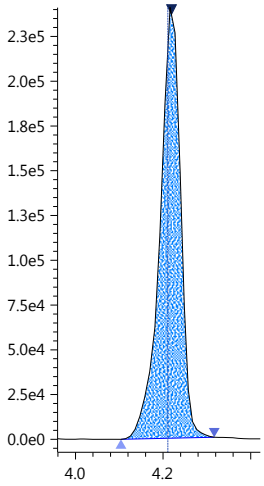


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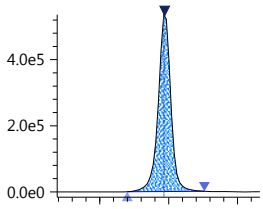
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Conc 5.0000
RT 4.219 Area 789858

ISTD 328.80>309.05 (-) 2.41e5

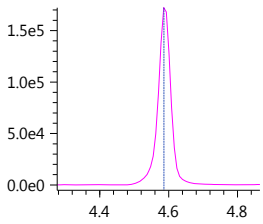


6_2-FTS_1
Conc 12.3885
RT 4.589 Area 1366513
R#1 32.10 (0.00)

Q 427.00>407.00 (-) 5.36e5

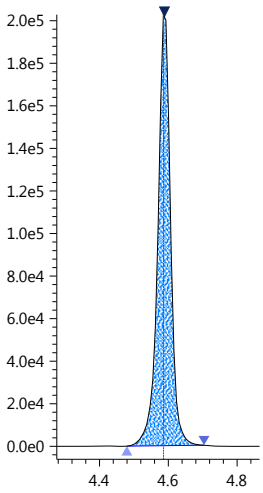


R1 427.00>80.90 (-) 1.72e5



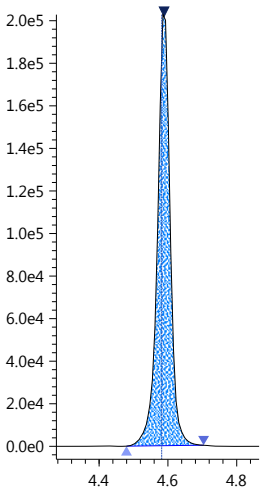
6_2-FTS-13C
Conc 5.8422
RT 4.589 Area 522996

Q 428.90>409.00 (-) 2.03e5



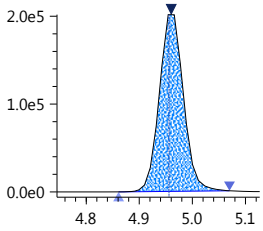
6_2-FTS-13C_IS
Conc 5.0000
RT 4.589 Area 522996

ISTD 428.90>409.00 (-) 2.03e5

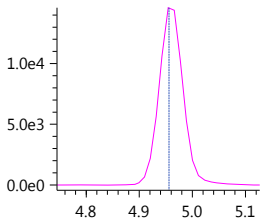


8_2-FTS_1
Conc 12.7872
RT 4.960 Area 636463
R#1 7.24 (0.00)

Q 527.10>506.90 (-) 2.02e5

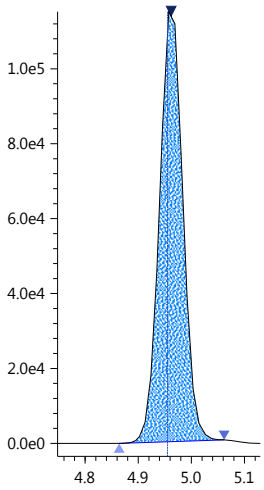


R1 527.20>487.00 (-) 1.46e4



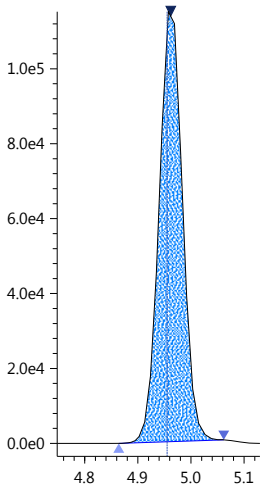
8_2-FTS-13C
Conc 6.0424
RT 4.962 Area 353371

Q 528.80>509.00 (-) 1.15e5



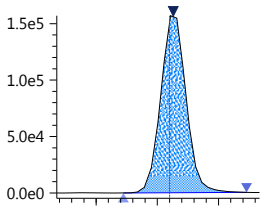
8_2-FTS-13C_IS
Conc 5.0000
RT 4.962 Area 353371

ISTD 528.80>509.00 (-) 1.15e5

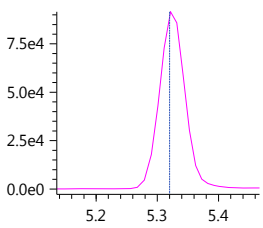


10_2-FtS_1
Conc 14.7753
RT 5.326 Area 451894
R#1 58.39 (0.00)

Q 627.00>606.95 (-) 1.57e5

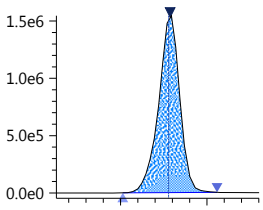


R1 627.00>81.25 (-) 9.16e4

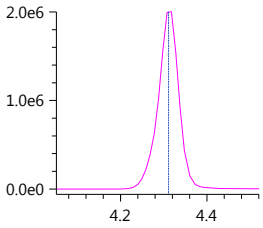


HPFO_DA
Conc 10.6387
RT 4.315 Area 5228594
R#1 134.30 (0.00)

Q 329.00>169.00 (-) 1.55e6

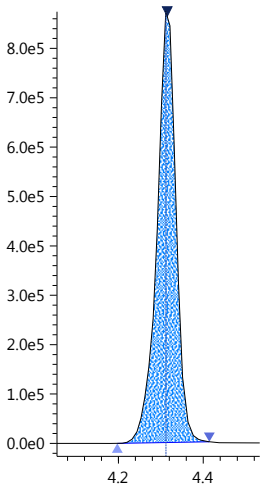


R1 329.00>285.10 (-) 2.00e6



HFPO_DA-13C
Conc 7.0487
RT 4.315 Area 2723703

Q 332.00>286.80 (-) 8.74e5



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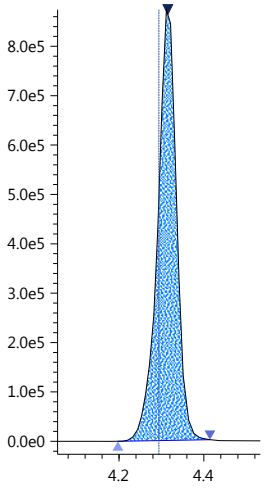
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HFPO_DA-13C_IS

Conc 5.0000

RT 4.315 Area 2723703

ISTD 332.00>286.80 (-) 8.74e5



ADONA

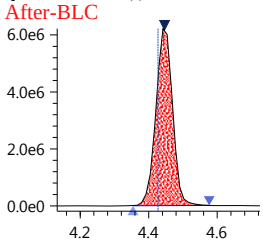
Conc 13.9373

RT 4.446 Area 21094020

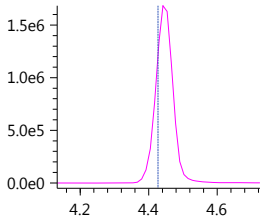
R#1 27.09 (0.00)

Q 377.00>251.00 (-) 6.22e6

After-BLC



R1 377.00>84.95 (-) 1.68e6



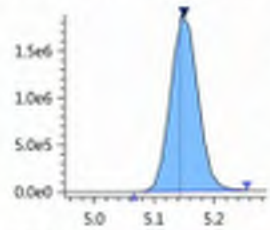
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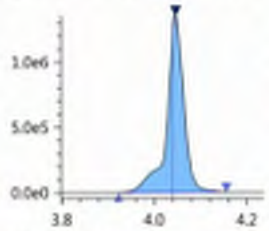
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Date acquired: 9/17/2019 4:55:23 PM
Acquired by: System Administrator
Data File: J:\LCMS09\Data\190917_curve\190917_012.lcd
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

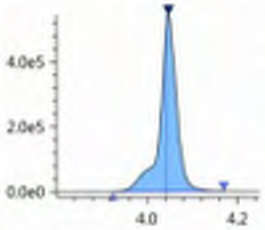
13C7-PFUnDA_IS
Conc 5.0000
RT 5.150 Area 6013308
ISTD 570.00>525.00 (-) 1.89e6



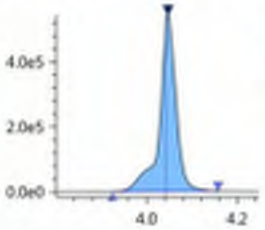
PFBS_1
Conc 12.2217
RT 4.046 Area 3408588
Q 299.00>80.00 (-) 1.36e6



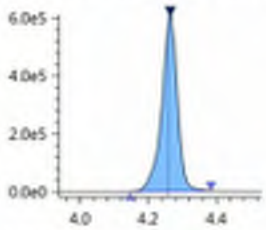
PFBS-13C
Conc 4.9261
RT 4.047 Area 1376802
Q 301.80>80.00 (-) 5.46e5



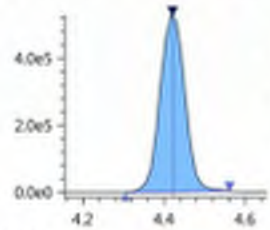
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Conc 5.0000
RT 4.047 Area 1374058
ISTD 301.80>80.00 (-) 5.46e5



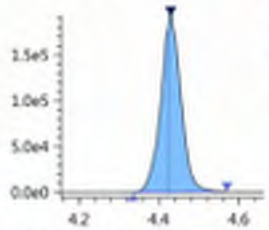
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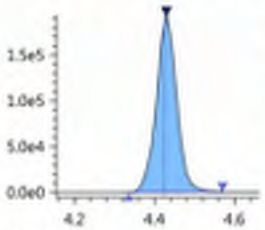
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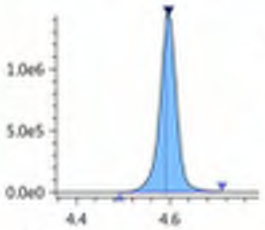
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Q 402.70>84.05 (-) 1.93e5



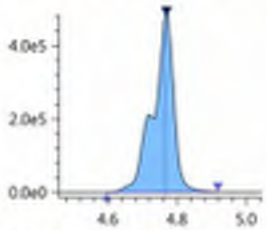
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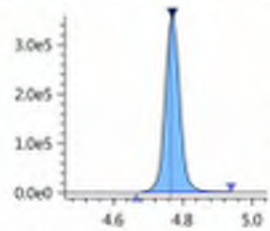
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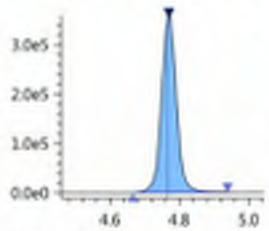
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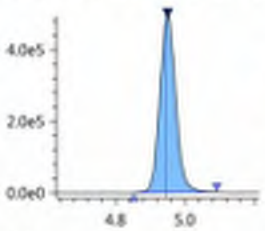
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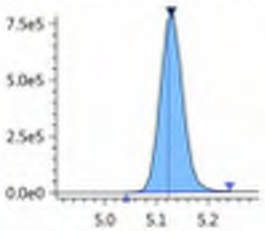
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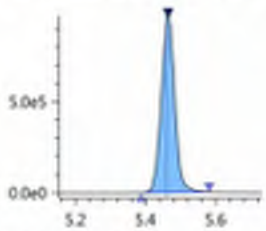
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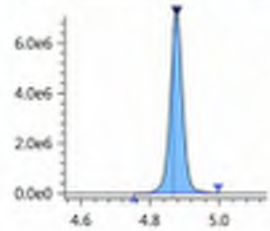
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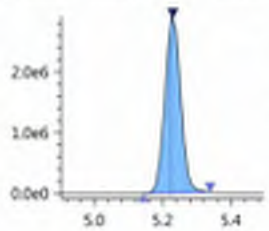
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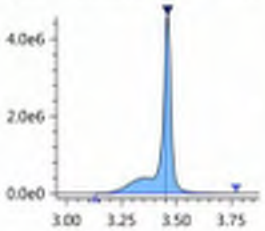
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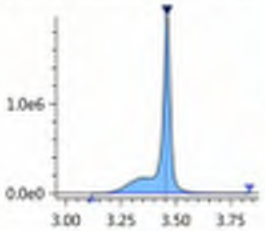
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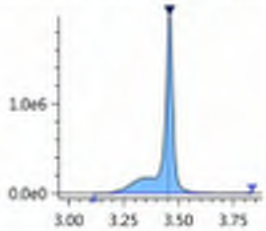
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Conc 15.2726
RT 3.460 Area 14430935
Q 213.00>169.10 (-) 4.59e6



PFBA-13C
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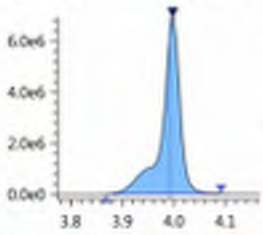


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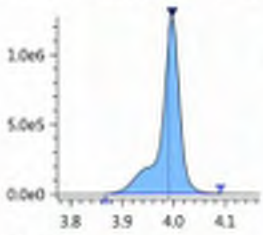
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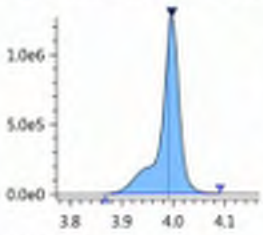
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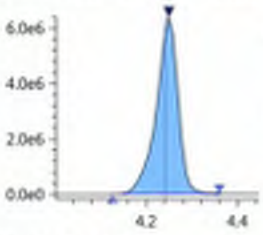
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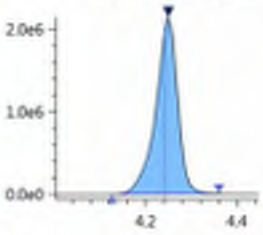
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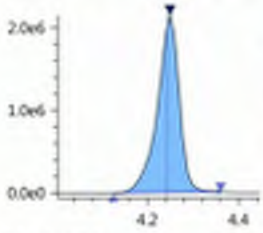
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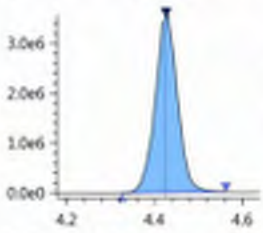
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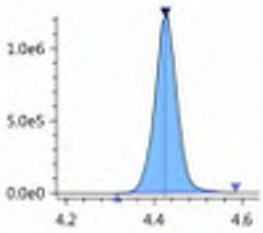
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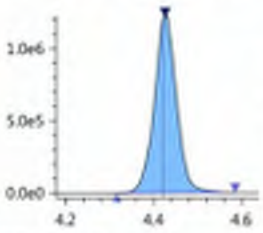
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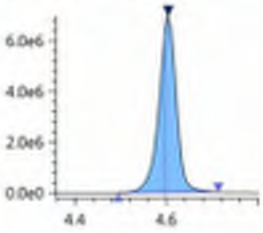
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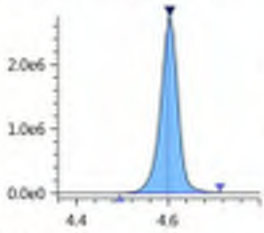
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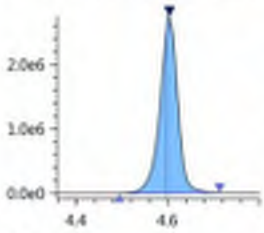
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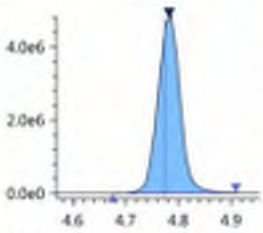
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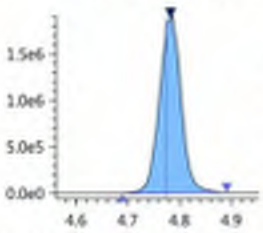
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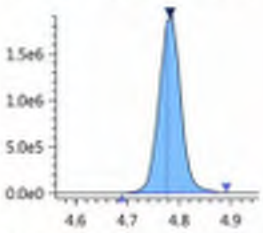
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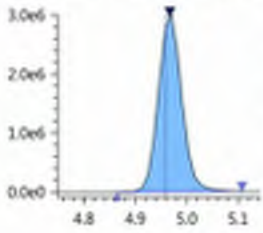
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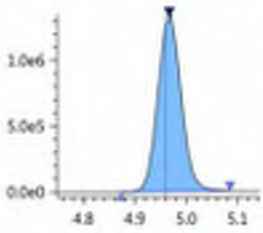
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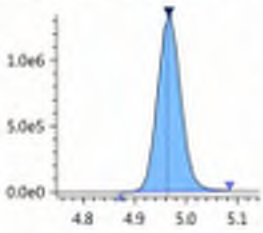
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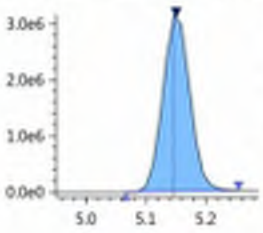
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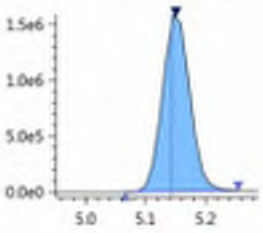
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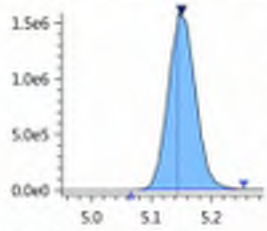


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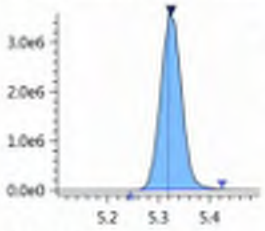
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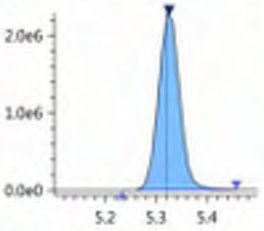
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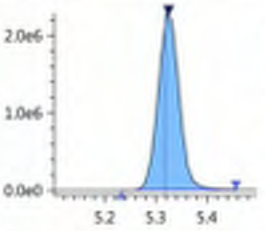
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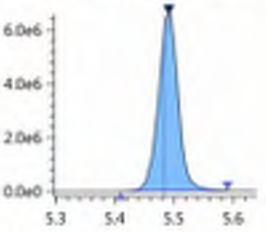
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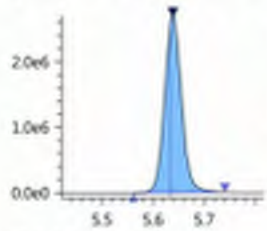
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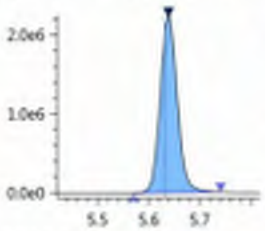
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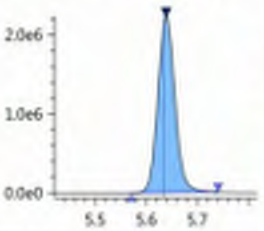
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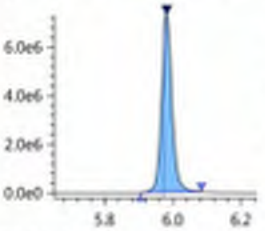
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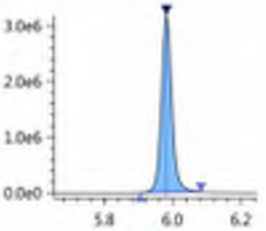
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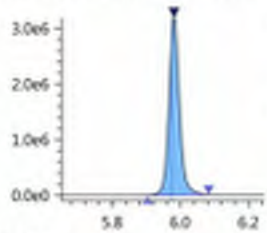
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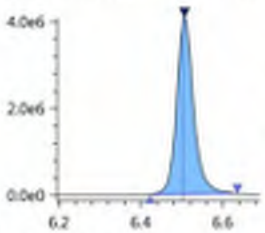
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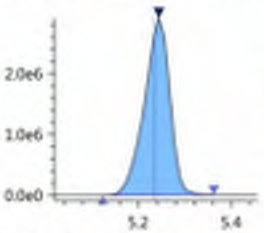
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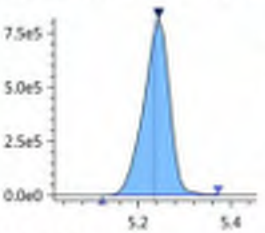
PFODA
Conc 14.6241
RT 6.506 Area 11675418
Q 913.00>868.85 (-) 4.08e6



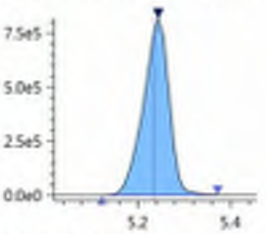
FOSA
Conc 14.2332
RT 5.244 Area 11026814
Q 498.20>78.00 (-) 2.91e6



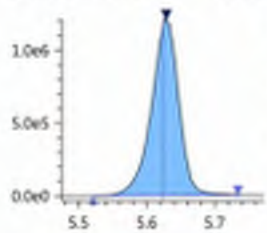
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RT 5.244 Area 3135152
Q 506.00>78.05 (-) 8.19e5



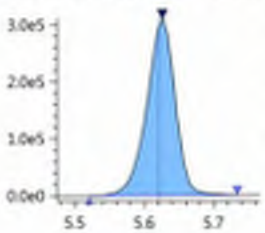
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RT 5.244 Area 3135152
ISTD 506.00>78.05 (-) 8.19e5



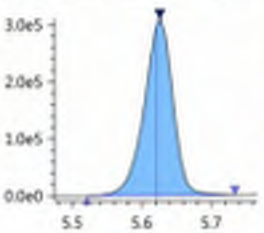
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Conc 13.7481
RT 5.629 Area 3389070
Q 512.00>169.10 (-) 1.22e6



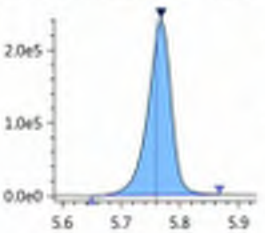
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Conc 5.7612
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Q 514.90>168.90 (-) 3.11e5



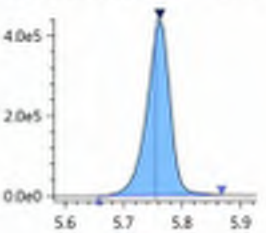
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Conc 5.0000
RT 5.626 Area 881616
ISTD 514.90>168.90 (-) 3.11e5



N-EtFOSA
Conc 14.5507
RT 5.768 Area 665804
Q 526.90>169.10 (-) 2.43e5



N-EtFOSA-d9
Conc 5.8322
RT 5.762 Area 1219660
Q 530.90>169.15 (-) 4.43e5

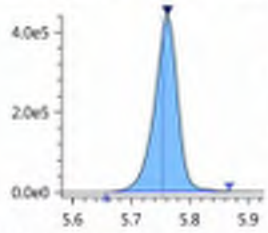


Manual Integration - Before

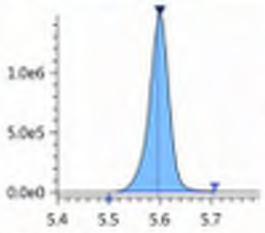
Insight Report

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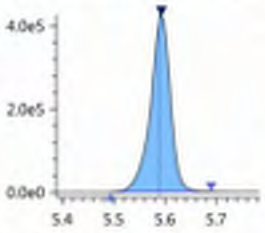
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ISTD 530.90>169.15 (-) 4.43e5



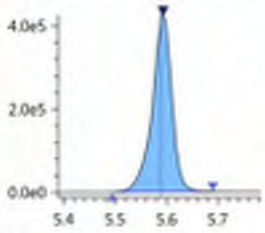
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Conc 14.1082
RT 5.600 Area 4048947
Q 616.00>59.00 (-) 1.48e6



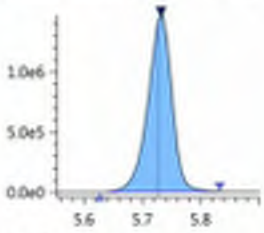
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Conc 6.1092
RT 5.593 Area 1133530
Q 622.70>59.10 (-) 4.26e5



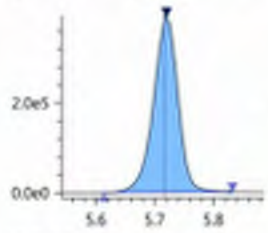
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.593 Area 1133530
ISTD 622.70>59.10 (-) 4.26e5



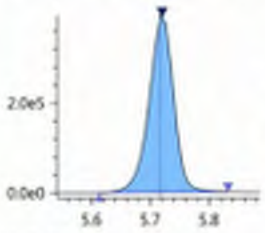
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RT 5.732 Area 4221799
Q 630.00>58.90 (-) 1.47e6



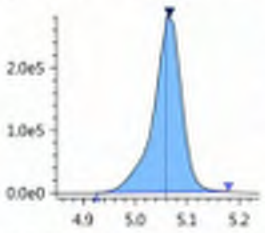
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Conc 6.0606
RT 5.720 Area 1146413
Q 638.70>59.10 (-) 3.95e5



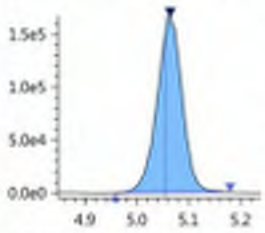
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.720 Area 1146413
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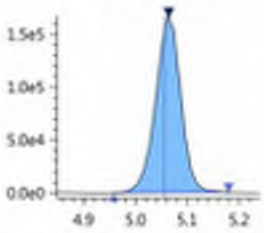
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Conc 13.3787
RT 5.066 Area 1061170
Q 570.20>419.00 (-) 2.84e5



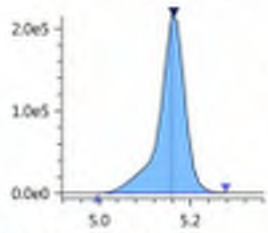
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Conc 6.0091
RT 5.064 Area 562409
Q 572.80>419.05 (-) 1.68e5



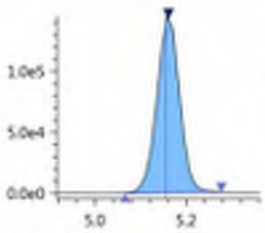
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.064 Area 562409
ISTD 572.80>419.05 (-) 1.68e5



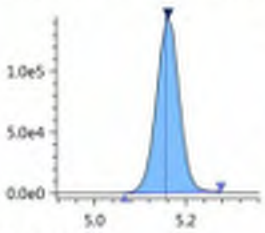
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Conc 17.9066
RT 5.163 Area 838575
Q 584.20>418.95 (-) 2.15e5



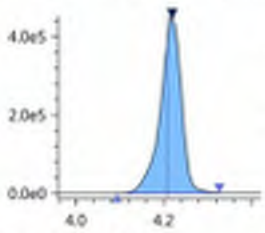
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Conc 5.8430
RT 5.161 Area 499327
Q 588.80>419.00 (-) 1.45e5



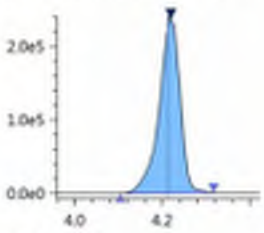
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Conc 5.0000
RT 5.161 Area 499327
ISTD 588.80>419.00 (-) 1.45e5



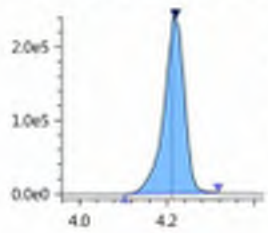
4_2-FTS_1
Conc 11.7449
RT 4.219 Area 1496264
Q 327.00>307.05 (-) 4.52e5



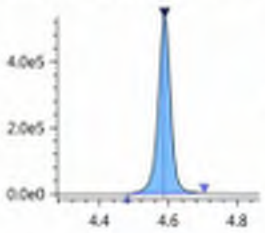
4_2-FTS-13C
Conc 6.9621
RT 4.219 Area 789858
Q 328.80>309.05 (-) 2.41e5



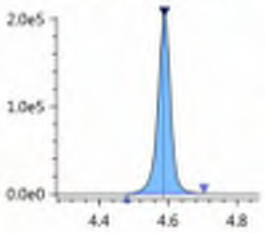
4_2-FTS-13C_IS
Conc 5.0000
RT 4.219 Area 789858
ISTD 328.80>309.05 (-) 2.41e5



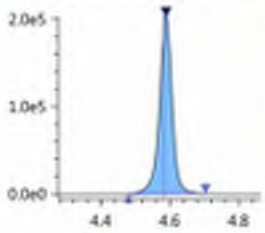
6_2-FTS_1
Conc 12.3960
RT 4.589 Area 1366513
Q 427.00>407.00 (-) 5.36e5



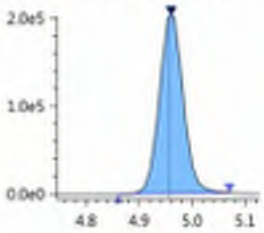
6_2-FTS-13C
Conc 5.8422
RT 4.589 Area 522996
Q 428.90>409.00 (-) 2.03e5



6_2-FTS-13C_IS
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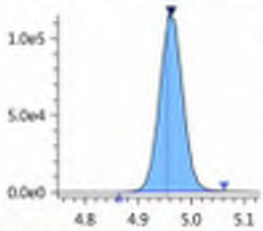
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Conc 12.9795
RT 4.960 Area 636463
Q 527.10>506.90 (-) 2.02e5



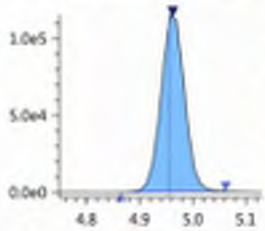
Insight Report

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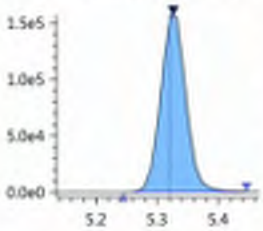
8_2-FTS-13C
Conc 6.0424
RT 4.962 Area 353371
Q 528.80>509.00 (-) 1.15e5



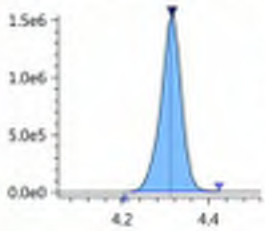
8_2-FTS-13C_IS
Conc 5.0000
RT 4.962 Area 353371
ISTD 528.80>509.00 (-) 1.15e5



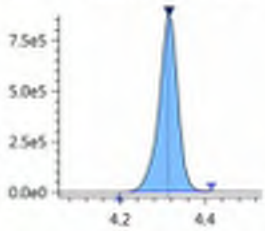
10_2-FtS_1
Conc 14.9320
RT 5.326 Area 451894
Q 627.00>606.95 (-) 1.57e5



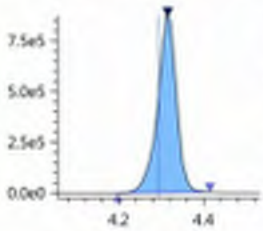
HPFO_DA
Conc 11.5559
RT 4.315 Area 5228594
Q 329.00>169.00 (-) 1.55e6



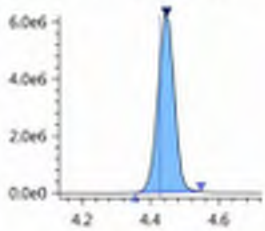
HFPO_DA-13C
Conc 6.2344
RT 4.315 Area 2723703
Q 332.00>286.80 (-) 8.74e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.315 Area 2723703
ISTD 332.00>286.80 (-) 8.74e5



ADONA
Conc 13.9196
RT 4.446 Area 20911288
Q 377.00>251.00 (-) 6.22e6



Manual Integration - Before

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Printed at 9/18/2019 9:25:42 AM

190917_013

Sample ID: IB
Date acquired: 9/17/2019 5:06:12 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_013.lcd
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.141	7980964	7980964	1	5.0000	ng/mL	----
PFBS_1	ND(W/B)	----	----	1795762	2	----	ng/mL	----
PFBS-13C	Auto	4.042	1818985	7980964	1	4.9036	ng/mL	----
PFBS-13C_IS	Auto	4.042	1795762	1795762	2	5.0000	ng/mL	----
PFPeS	M	4.262	474	1795762	2	0.0025	ng/mL	----
PFHxS_1	M	4.420	5462	1101680	3	-0.0149	ng/mL	----
PFHxS-18O	Auto	4.424	1101680	7980964	1	6.0004	ng/mL	----
PFHxS-18O_IS	Auto	4.424	1101680	1101680	3	5.0000	ng/mL	----
PFHpS_1	ND(W/B)	----	----	1101680	3	----	ng/mL	----
PFOS_1	M	4.766	1242	954617	4	0.0095	ng/mL	----
PFOS-13C	Auto	4.763	954617	7980964	1	3.5674	ng/mL	----
PFOS-13C_IS	Auto	4.763	954617	954617	4	5.0000	ng/mL	----
PFNS	ND(W/B)	----	----	954617	4	----	ng/mL	----
PFDS_1	ND(W/B)	----	----	954617	4	----	ng/mL	----
PFDOS	ND(W/B)	----	----	954617	4	----	ng/mL	----
9Cl-PF3ONS	M	4.853	872	2256673	26	0.0008	ng/mL	----
11Cl-PF3OUdS	M	5.214	821	2256673	26	0.0010	ng/mL	----
PFBA	M	3.455	2723	6217785	5	0.0028	ng/mL	----
PFBA-13C	Auto	3.454	6217785	7980964	1	4.2940	ng/mL	----
PFBA-13C_IS	Auto	3.454	6217785	6217785	5	5.0000	ng/mL	----
PFPeA	Auto	3.990	131042	3157081	6	0.0023	ng/mL	----
PFPeA-13C	Auto	3.990	3157081	7980964	1	4.2916	ng/mL	----
PFPeA-13C_IS	Auto	3.990	3157081	3157081	6	5.0000	ng/mL	----
PFHxA	M	4.243	20984	8384142	7	-0.0079	ng/mL	----
PFHxA-13C	Auto	4.242	8384142	7980964	1	4.7283	ng/mL	----
PFHxA-13C_IS	Auto	4.242	8384142	8384142	7	5.0000	ng/mL	----
PFHpA	M	4.418	20045	6116204	8	-0.0017	ng/mL	----
PFHpA-13C	Auto	4.423	6116204	7980964	1	5.0999	ng/mL	----
PFHpA-13C_IS	Auto	4.423	6116204	6116204	8	5.0000	ng/mL	----
PFOA	M	4.593	23215	8250239	9	-0.0071	ng/mL	----
PFOA-13C	Auto	4.596	8250239	7980964	1	4.2701	ng/mL	----
PFOA-13C_IS	Auto	4.596	8250239	8250239	9	5.0000	ng/mL	----
PFNA	M	4.757	1483	5458220	10	-0.0235	ng/mL	----
PFNA-13C	Auto	4.773	5458220	7980964	1	4.0114	ng/mL	----
PFNA-13C_IS	Auto	4.773	5458220	5458220	10	5.0000	ng/mL	----
PFDA	M	4.951	10552	4467757	11	0.0028	ng/mL	----
PFDA-13C	Auto	4.959	4467757	7980964	1	3.9694	ng/mL	----
PFDA-13C_IS	Auto	4.959	4467757	4467757	11	5.0000	ng/mL	----
PFUnA	M	5.141	16033	6679863	12	-0.0036	ng/mL	----
PFUnA-13C	Auto	5.141	6679863	7980964	1	5.2802	ng/mL	----
PFUnA-13C_IS	Auto	5.141	6679863	6679863	12	5.0000	ng/mL	----
PFDoA	Auto	5.316	3797	7257904	13	0.0295	ng/mL	----
PFDoA-13C	Auto	5.316	7257904	7980964	1	4.7275	ng/mL	----
PFDoA-13C_IS	Auto	5.316	7257904	7257904	13	5.0000	ng/mL	----
PFTrDA	M	5.479	9101	5476249	14	0.0043	ng/mL	----
PFTeDA	Auto	5.629	63423	5476249	14	-0.0039	ng/mL	----
PFTeDA-13C	Auto	5.629	5476249	7980964	1	4.4938	ng/mL	----
PFTeDA-13C_IS	Auto	5.629	5476249	5476249	14	5.0000	ng/mL	----
PFHxDA	Auto	5.973	69348	6742438	15	-0.0011	ng/mL	----
13C-PFHxDA	Auto	5.972	6742438	7980964	1	4.3292	ng/mL	----
13C-PFHxDA_IS	Auto	5.972	6742438	6742438	15	5.0000	ng/mL	----
PFODA	M	6.502	7157	6742438	15	0.0091	ng/mL	----
FOSA	M	5.226	4137	2956816	16	0.0057	ng/mL	----
FOSA-13C	Auto	5.233	2956816	7980964	1	4.4470	ng/mL	----
FOSA-13C_IS	Auto	5.233	2956816	2956816	16	5.0000	ng/mL	----
N-MeFOSA	M	5.619	1505	839977	17	0.0063	ng/mL	----
N-MeFOSA-d3	Auto	5.616	839977	7980964	1	4.1358	ng/mL	----
N-MeFOSA-d3_IS	Auto	5.616	839977	839977	17	5.0000	ng/mL	----
N-EtFOSA	ND(W/B)	----	----	1088294	18	----	ng/mL	----
N-EtFOSA-d9	Auto	5.751	1088294	7980964	1	3.9210	ng/mL	----
N-EtFOSA-d9_IS	Auto	5.751	1088294	1088294	18	5.0000	ng/mL	----
N-MeFOSE	M	5.589	646	1013952	19	0.0025	ng/mL	----
N-MeFOSE-d7	Auto	5.585	1013952	7980964	1	4.1174	ng/mL	----
N-MeFOSE-d7_IS	Auto	5.585	1013952	1013952	19	5.0000	ng/mL	----
N-EtFOSE	M	5.706	2781	1043457	20	0.0102	ng/mL	----
N-EtFOSE-d9	Auto	5.710	1043457	7980964	1	4.1563	ng/mL	----
N-EtFOSE-d9_IS	Auto	5.710	1043457	1043457	20	5.0000	ng/mL	----
N-MeFOSAA	Auto	5.056	688	597793	21	0.0088	ng/mL	----

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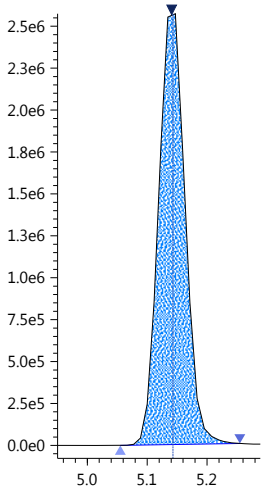
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.054	597793	7980964	1	4.8125	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.054	597793	597793	21	5.0000	ng/mL	----
N-EtFOSAA	Auto	5.147	1784	552953	22	0.0344	ng/mL	----
N-EtFOSAA-d5	Auto	5.151	552953	7980964	1	4.8752	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.151	552953	552953	22	5.0000	ng/mL	----
4_2-FTS_1	M	4.195	375	697364	23	0.0031	ng/mL	----
4_2-FTS-13C	Auto	4.210	697364	7980964	1	4.9555	ng/mL	----
4_2-FTS-13C_IS	Auto	4.210	697364	697364	23	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.581	1573	544810	24	0.0137	ng/mL	----
6_2-FTS-13C	Auto	4.583	544810	7980964	1	4.5855	ng/mL	----
6_2-FTS-13C_IS	Auto	4.583	544810	544810	24	5.0000	ng/mL	----
8_2-FTS_1	ND(W/B)	----	----	398734	25	----	ng/mL	----
8_2-FTS-13C	Auto	4.952	398734	7980964	1	5.1371	ng/mL	----
8_2-FTS-13C_IS	Auto	4.952	398734	398734	25	5.0000	ng/mL	----
10_2-FtS_1	M	5.301	51	398734	25	0.0015	ng/mL	----
HPFO_DA	M	4.311	738	2256673	26	0.0018	ng/mL	----
HFPO_DA-13C	Auto	4.307	2256673	7980964	1	4.4003	ng/mL	----
HFPO_DA-13C_IS	Auto	4.307	2256673	2256673	26	5.0000	ng/mL	----
ADONA	Auto	4.447	1499	2256673	26	0.0012	ng/mL	----

13C7-PFUnDA_IS

Conc 5.0000
RT 5.141 Area 7980964

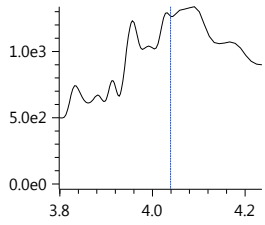
ISTD 570.00>525.00 (-) 2.57e6



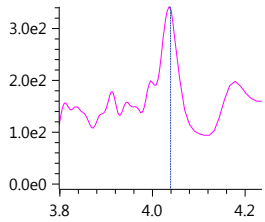
PFBS_1

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 299.00>80.00 (-) 1.34e3



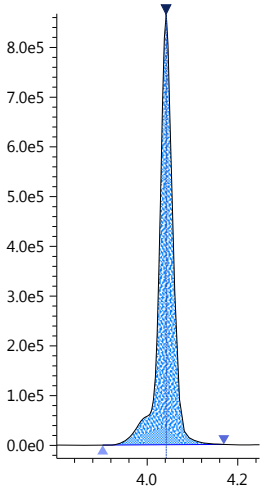
R1 298.80>99.00 (-) 3.42e2



PFBS-13C

Conc 4.9036
RT 4.042 Area 1818985

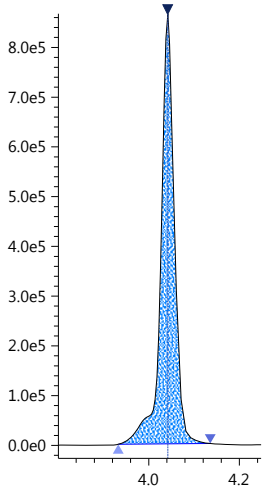
Q 301.80>80.00 (-) 8.68e5



PFBS-13C_IS

Conc 5.0000
RT 4.042 Area 1795762

ISTD 301.80>80.00 (-) 8.68e5

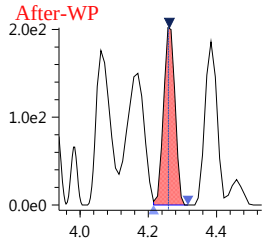


PFPeS

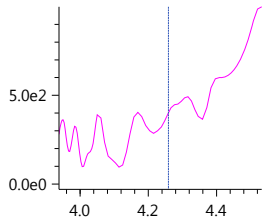
Conc 0.0025
RT 4.262 Area 474
R#1 13.85 (0.00)

Q 349.00>99.00 (-) 2.02e2

After-WP



R1 349.00>79.95 (-) 9.99e2



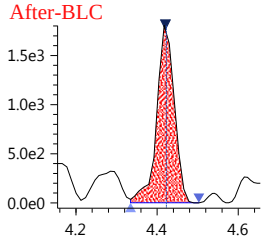
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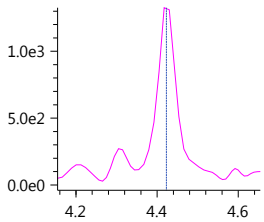
PFHxS_1

Conc -0.0149
RT 4.420 Area 5462
R#1 65.67 (0.00)

Q 399.00>80.00 (-) 1.80e3



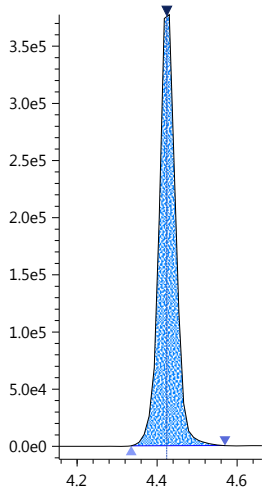
R1 399.00>99.00 (-) 1.33e3



PFHxS-18O

Conc 6.0004
RT 4.424 Area 1101680

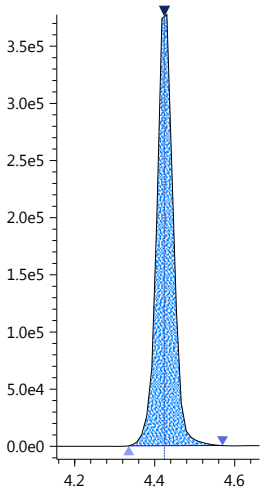
Q 402.70>84.05 (-) 3.78e5



PFHxS-18O_IS

Conc 5.0000
RT 4.424 Area 1101680

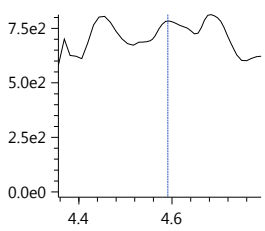
ISTD 402.70>84.05 (-) 3.78e5



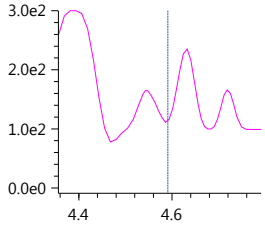
PFHpS_1

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 449.00>80.15 (-) 8.13e2



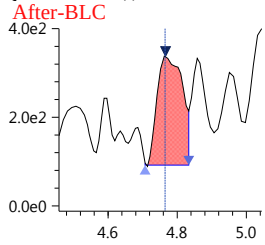
R1 449.00>99.20 (-) 3.00e2



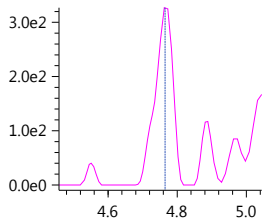
PFOS_1

Conc 0.0095
RT 4.766 Area 1242
R#1 145.27 (0.00)

Q 499.00>80.00 (-) 4.00e2



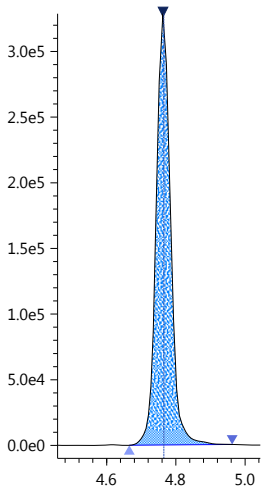
R1 499.00>99.00 (-) 3.27e2



PFOS-13C

Conc 3.5674
RT 4.763 Area 954617

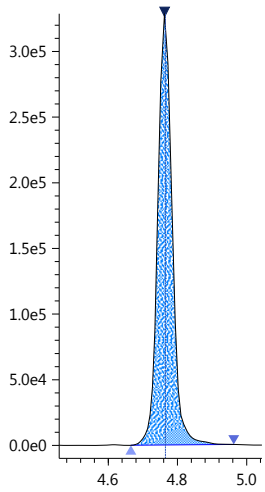
Q 502.80>80.05 (-) 3.29e5



PFOS-13C_IS

Conc 5.0000
RT 4.763 Area 954617

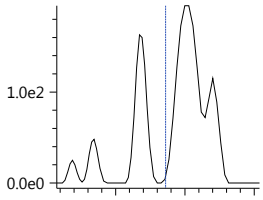
ISTD 502.80>80.05 (-) 3.29e5



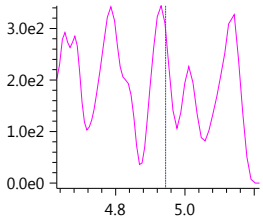
PFNS

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 549.00>99.00 (-) 1.95e2



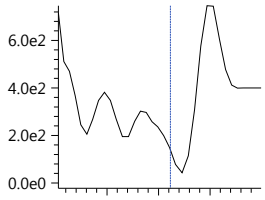
R1 549.00>79.95 (-) 3.44e2



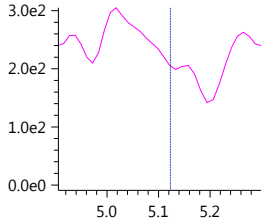
PFDS_1

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 599.00>79.90 (-) 7.46e2



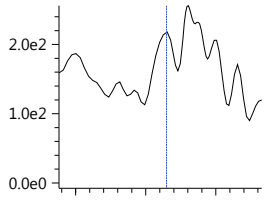
R1 599.00>99.10 (-) 3.05e2



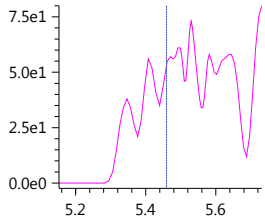
PFDOS

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 699.00>79.95 (-) 2.56e2



R1 699.00>99.05 (-) 8.00e1



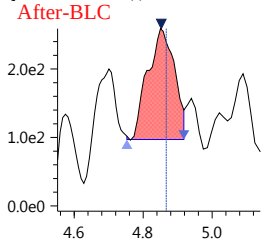
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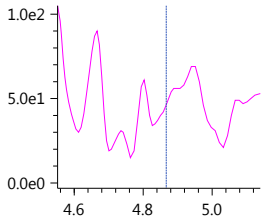
9Cl-PF3ONS

Conc 0.0008
RT 4.853 Area 872
R#1 0.00 (0.00)

Q 531.00>351.00 (-) 2.59e2



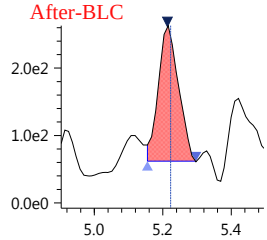
R1 531.00>98.90 (-) 1.05e2



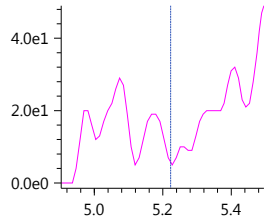
11Cl-PF3OUdS

Conc 0.0010
RT 5.214 Area 821
R#1 0.00 (0.00)

Q 631.00>451.05 (-) 2.63e2



R1 631.00>98.90 (-) 4.90e1

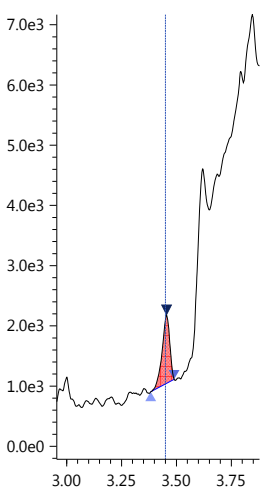


PFBA

Conc 0.0028
RT 3.455 Area 2723

After-MP

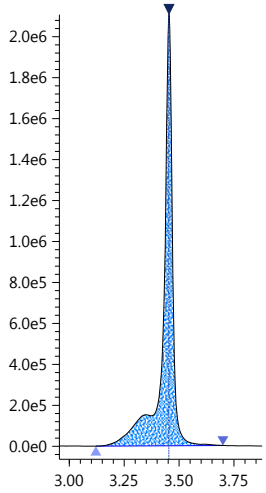
Q 213.00>169.10 (-) 7.17e3



PFBA-13C

Conc 4.2940
RT 3.454 Area 6217785

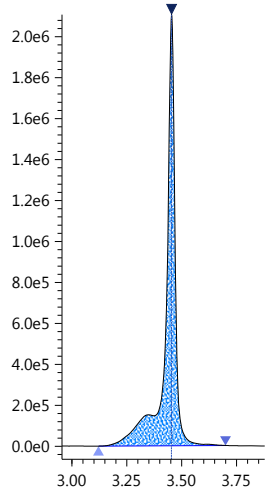
Q 216.90>172.15 (-) 2.11e6



PFBA-13C_IS

Conc 5.0000
RT 3.454 Area 6217785

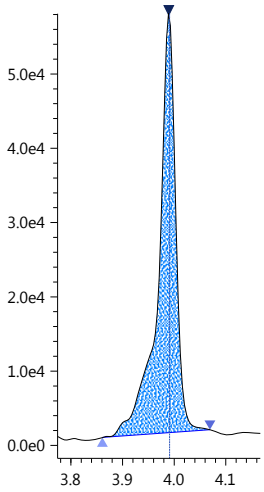
ISTD 216.90>172.15 (-) 2.11e6



PFPeA

Conc 0.0023
RT 3.990 Area 131042

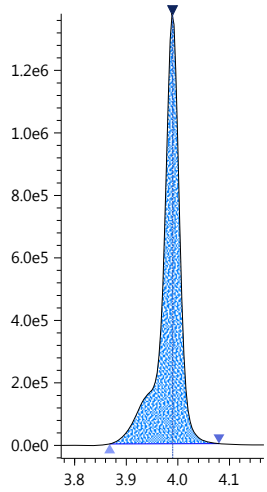
Q 263.05>219.10 (-) 5.81e4



PFPeA-13C

Conc 4.2916
RT 3.990 Area 3157081

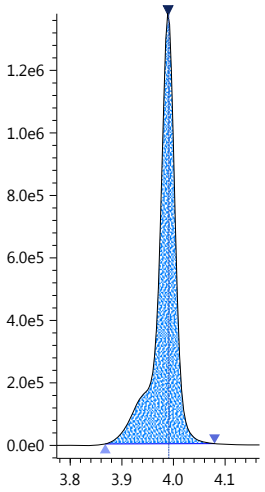
Q 267.90>223.00 (-) 1.38e6



PFPeA-13C_IS

Conc 5.0000
RT 3.990 Area 3157081

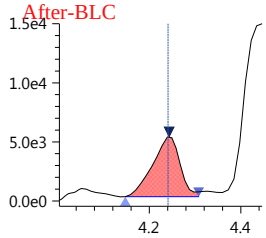
ISTD 267.90>223.00 (-) 1.38e6



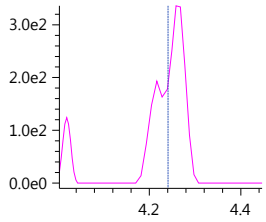
PFHxA

Conc -0.0079
RT 4.243 Area 20984
R#1 3.83 (0.00)

Q 313.00>269.00 (-) 1.50e4



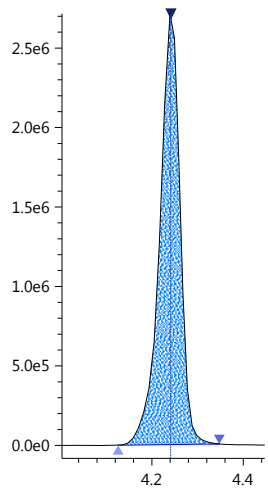
R1 313.00>119.10 (-) 3.36e2



PFHxA-13C

Conc 4.7283
RT 4.242 Area 8384142

Q 314.90>270.10 (-) 2.72e6

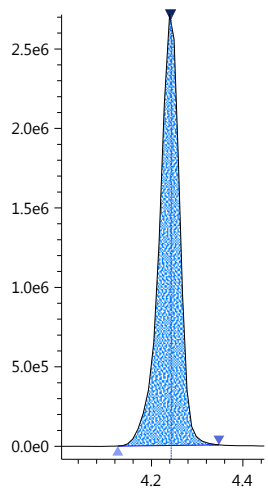


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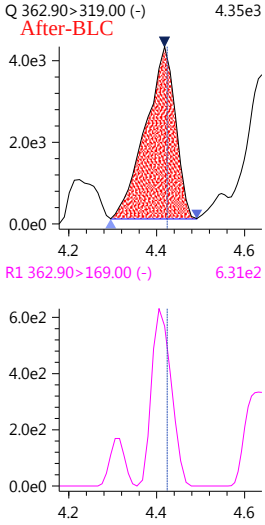
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RT 4.242 Area 8384142



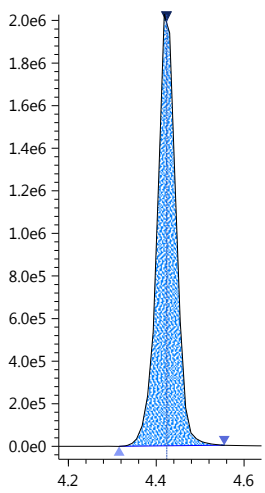
PFHpA

Conc -0.0017
RT 4.418 Area 20045
R#1 12.82 (0.00)



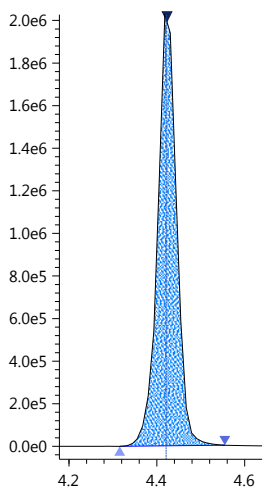
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Conc 5.0999
RT 4.423 Area 6116204



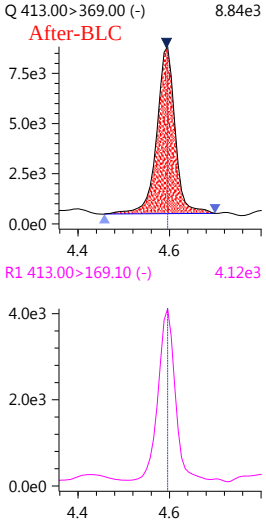
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RT 4.423 Area 6116204



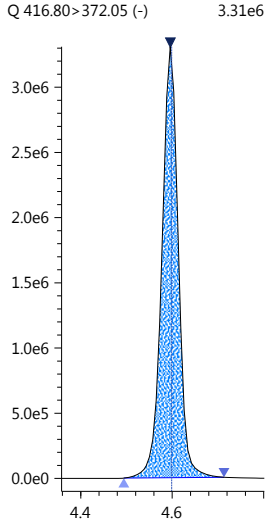
PFOA

Conc -0.0071
RT 4.593 Area 23215
R#1 47.14 (0.00)



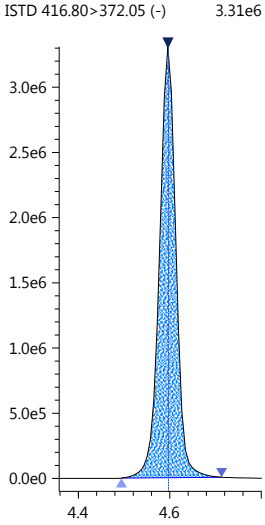
PFOA-13C

Conc 4.2701
RT 4.596 Area 8250239



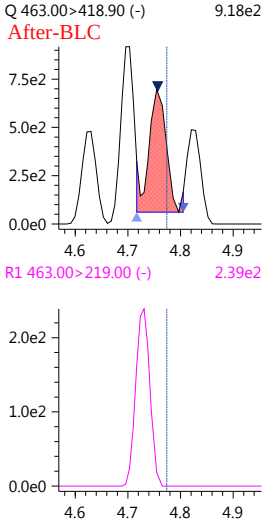
PFOA-13C_IS

Conc 5.0000
RT 4.596 Area 8250239



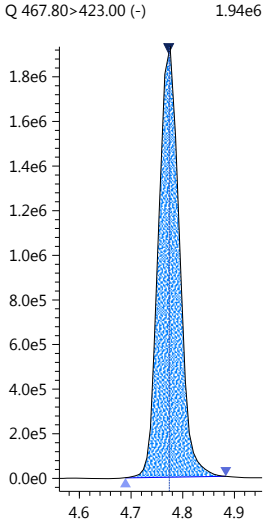
PFNA

Conc -0.0235
RT 4.757 Area 1483
R#1 0.00 (0.00)



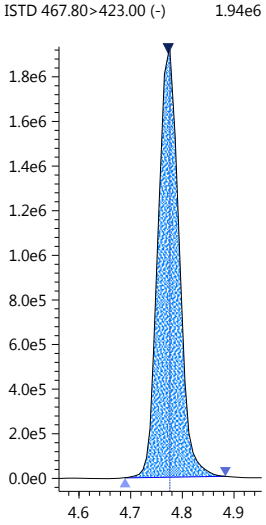
PFNA-13C

Conc 4.0114
RT 4.773 Area 5458220



PFNA-13C_IS

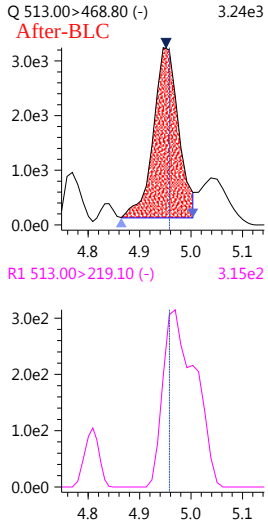
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RT 4.773 Area 5458220



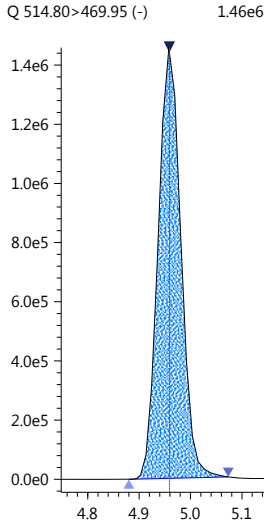
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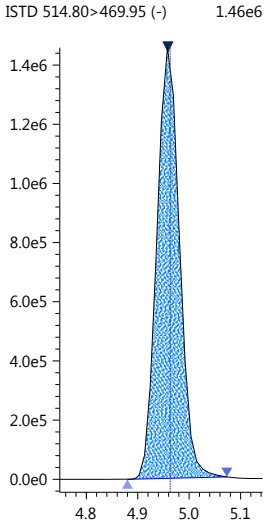
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Conc 0.0028
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R#1 5.23 (0.00)



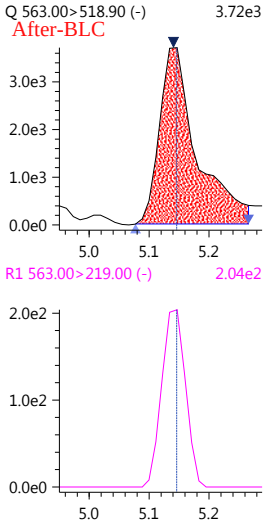
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Conc 3.9694
RT 4.959 Area 4467757



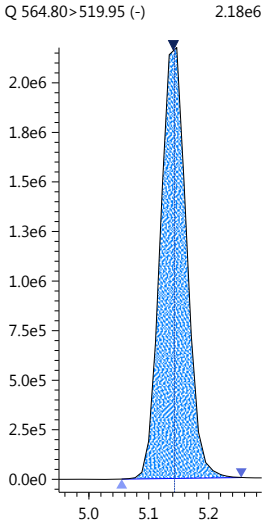
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Conc 5.0000
RT 4.959 Area 4467757



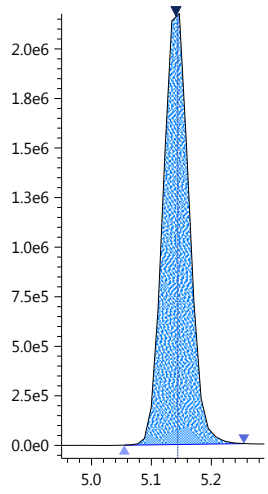
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Conc -0.0036
RT 5.141 Area 16033
R#1 5.63 (0.00)



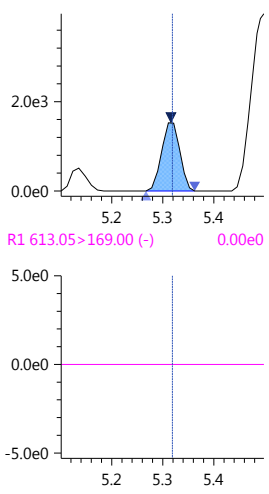
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RT 5.141 Area 6679863



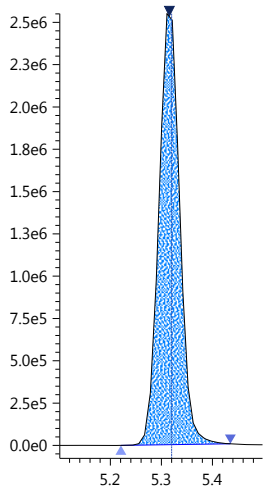
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Conc 5.0000
RT 5.141 Area 6679863



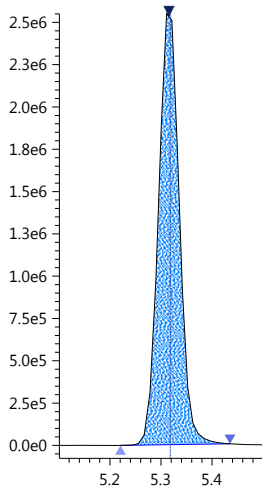
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Conc 0.0295
RT 5.316 Area 3797
R#1 0.00 (0.00)



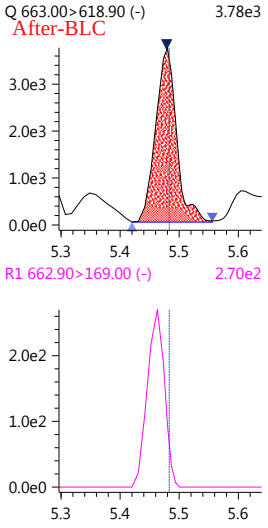
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Conc 4.7275
RT 5.316 Area 7257904



PFDoA-13C_IS
Conc 5.0000
RT 5.316 Area 7257904



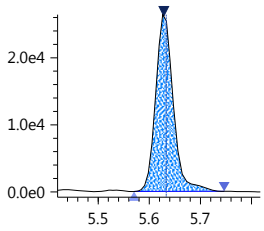
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Conc 0.0043
RT 5.479 Area 9101
R#1 3.11 (0.00)



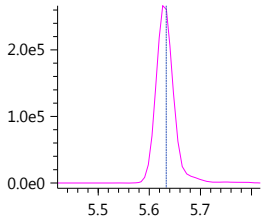
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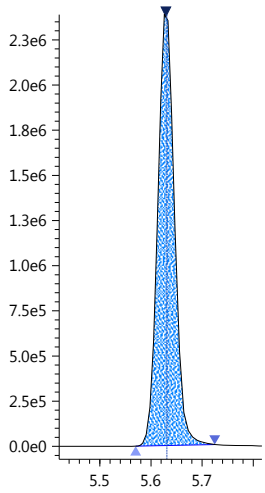
PFTeDA
Conc -0.0039
RT 5.629 Area 63423
R#1 1006.23 (0.00)
Q 713.40>669.00 (-) 2.64e4



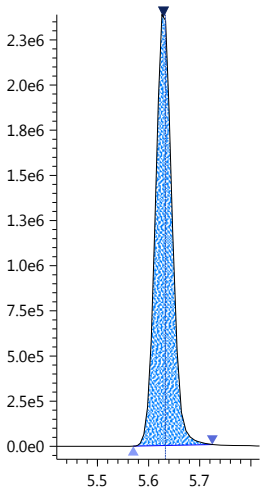
R1 713.40>169.10 (-) 2.66e5



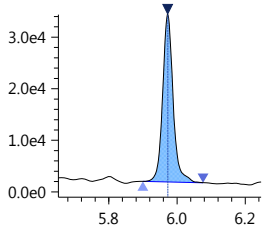
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Conc 4.4938
RT 5.629 Area 5476249
Q 714.70>669.90 (-) 2.39e6



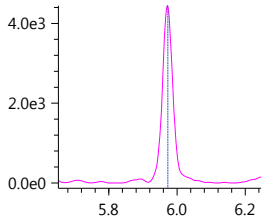
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Conc 5.0000
RT 5.629 Area 5476249
ISTD 714.70>669.90 (-) 2.39e6



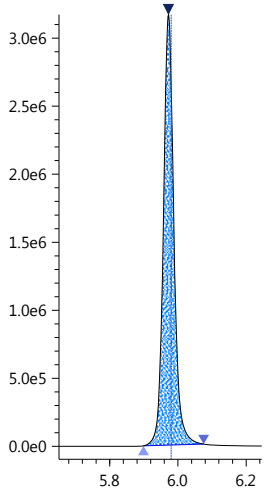
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Conc -0.0011
RT 5.973 Area 69348
R#1 12.58 (0.00)
Q 813.00>769.05 (-) 3.44e4



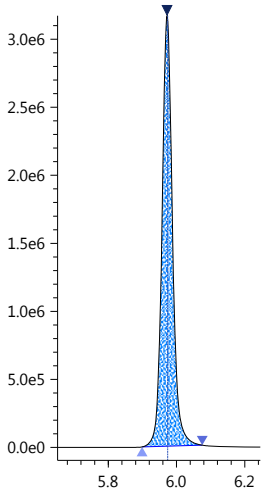
R1 813.00>218.95 (-) 4.44e3



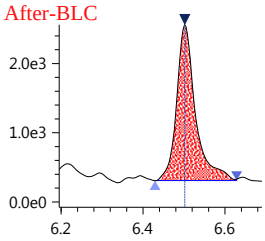
13C-PFHxDA
Conc 4.3292
RT 5.972 Area 6742438
Q 815.00>770.05 (-) 3.17e6



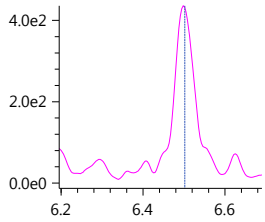
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Conc 5.0000
RT 5.972 Area 6742438
ISTD 815.00>770.05 (-) 3.17e6



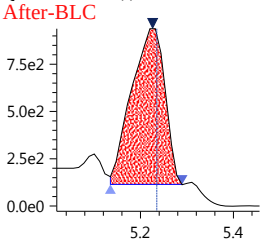
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Conc 0.0091
RT 6.502 Area 7157
R#1 17.40 (0.00)
Q 913.00>868.85 (-) 2.56e3



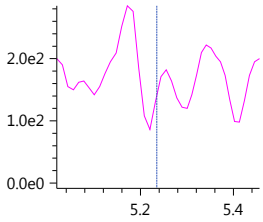
R1 913.00>169.00 (-) 4.36e2



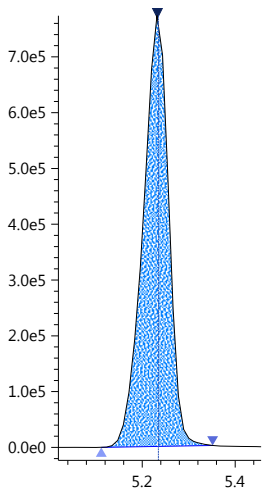
FOSA
Conc 0.0057
RT 5.226 Area 4137
R#1 0.00 (0.00)
Q 498.20>78.00 (-) 9.38e2



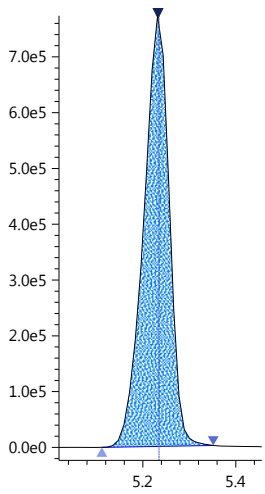
R1 498.20>64.10 (-) 2.85e2



FOSA-13C
Conc 4.4470
RT 5.233 Area 2956816
Q 506.00>78.05 (-) 7.74e5



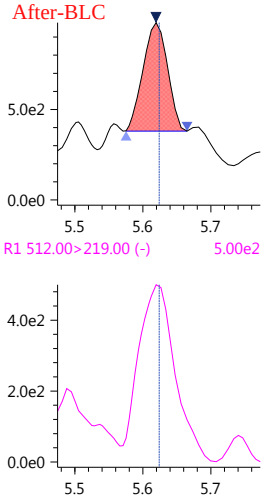
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Conc 5.0000
RT 5.233 Area 2956816
ISTD 506.00>78.05 (-) 7.74e5



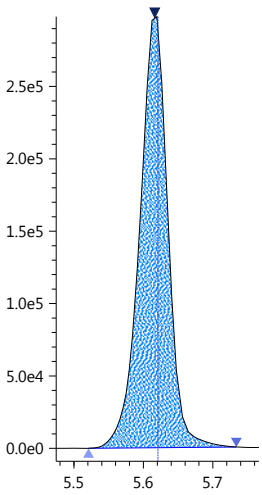
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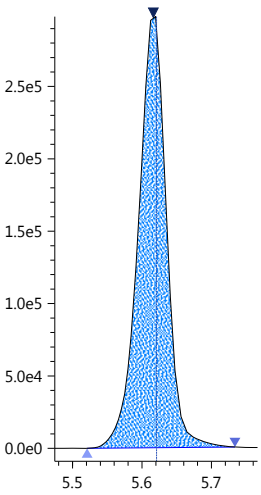
N-MeFOSA
Conc 0.0063
RT 5.619 Area 1505
R#1 68.68 (0.00)
Q 512.00>169.10 (-) 9.80e2
After-BLC
R1 512.00>219.00 (-) 5.00e2



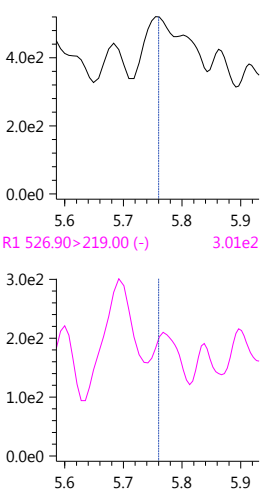
N-MeFOSA-d3
Conc 4.1358
RT 5.616 Area 839977
Q 514.90>168.90 (-) 2.98e5



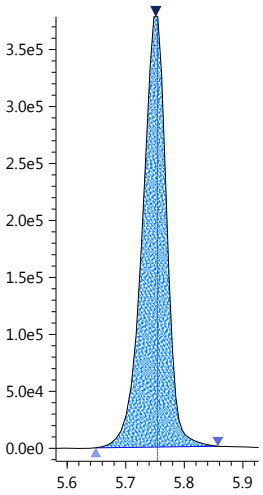
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.616 Area 839977
ISTD 514.90>168.90 (-) 2.98e5



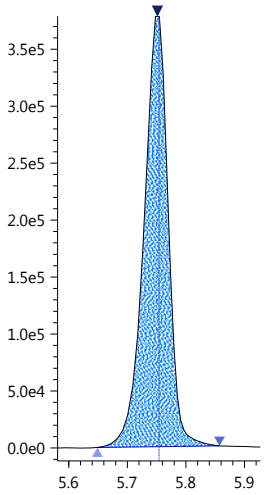
N-EtFOSA
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 526.90>169.10 (-) 5.21e2
R1 526.90>219.00 (-) 3.01e2



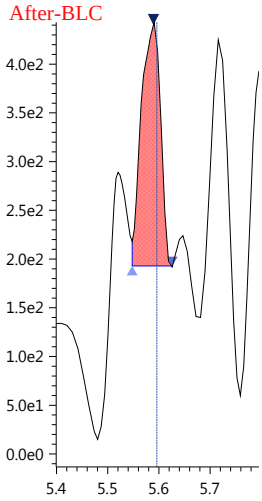
N-EtFOSA-d9
Conc 3.9210
RT 5.751 Area 1088294
Q 530.90>169.15 (-) 3.79e5



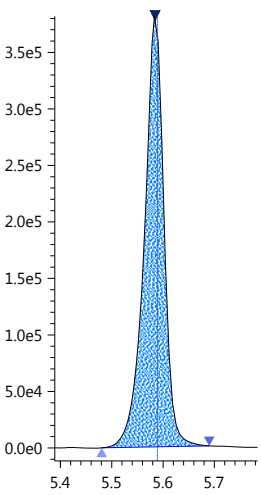
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RT 5.751 Area 1088294
ISTD 530.90>169.15 (-) 3.79e5



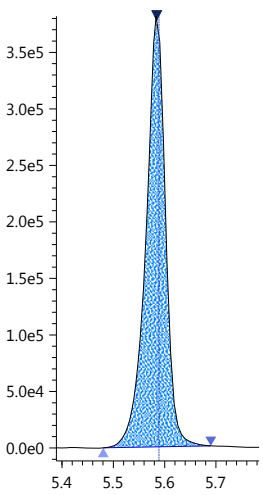
N-MeFOSE
Conc 0.0025
RT 5.589 Area 646
Q 616.00>59.00 (-) 4.43e2
After-BLC



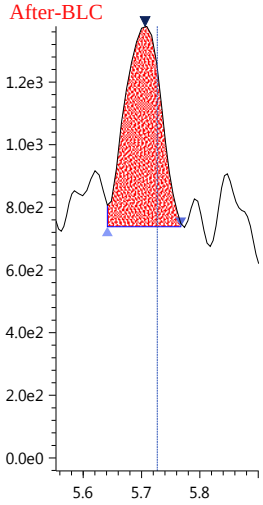
N-MeFOSE-d7
Conc 4.1174
RT 5.585 Area 1013952
Q 622.70>59.10 (-) 3.82e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.585 Area 1013952
ISTD 622.70>59.10 (-) 3.82e5



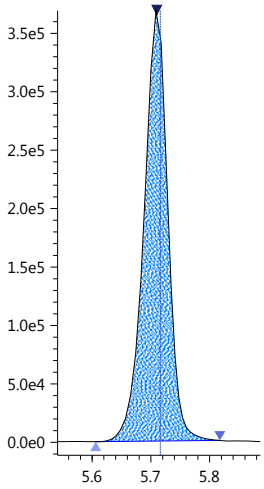
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Conc 0.0102
RT 5.706 Area 2781
Q 630.00>58.90 (-) 1.38e3
After-BLC



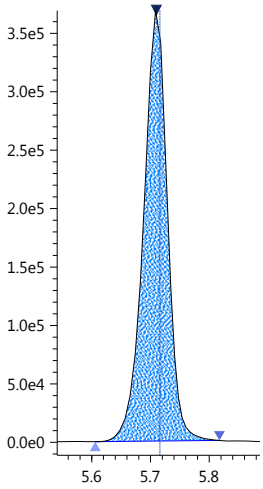
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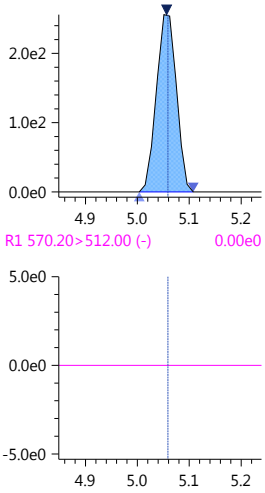
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Conc 4.1563
RT 5.710 Area 1043457
Q 638.70>59.10 (-) 3.69e5



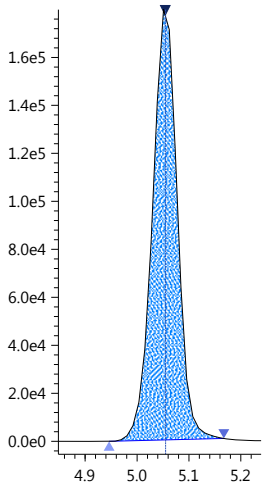
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.710 Area 1043457
ISTD 638.70>59.10 (-) 3.69e5



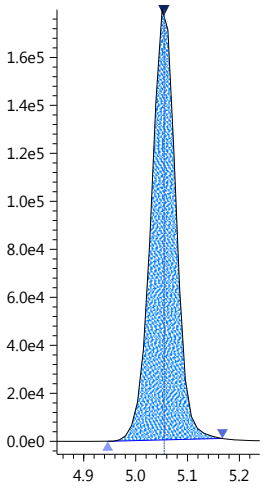
N-MeFOSAA
Conc 0.0088
RT 5.056 Area 688
R#1 0.00 (0.00)
Q 570.20>419.00 (-) 2.56e2



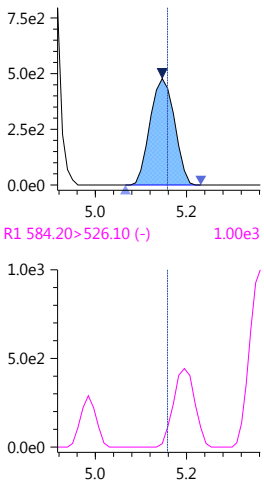
N-MeFOSAA-d3
Conc 4.8125
RT 5.054 Area 597793
Q 572.80>419.05 (-) 1.80e5



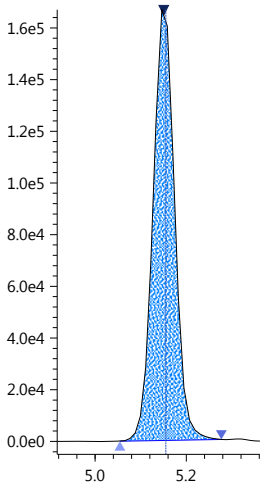
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.054 Area 597793
ISTD 572.80>419.05 (-) 1.80e5



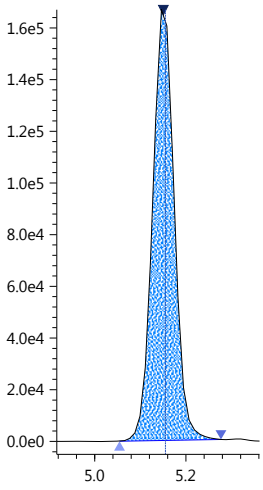
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Conc 0.0344
RT 5.147 Area 1784
R#1 0.00 (0.00)
Q 584.20>418.95 (-) 7.96e2



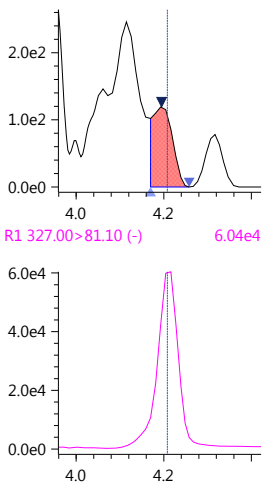
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Conc 4.8752
RT 5.151 Area 552953
Q 588.80>419.00 (-) 1.67e5



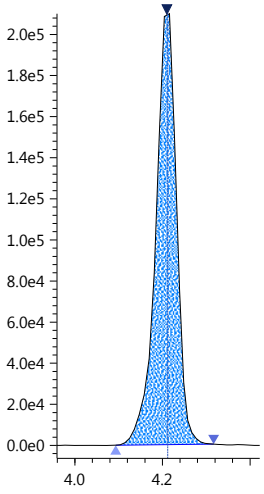
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.151 Area 552953
ISTD 588.80>419.00 (-) 1.67e5



4_2-FTS_1
Conc 0.0031
RT 4.195 Area 375
R#1 80974.41 (0.00)
Q 327.00>307.05 (-) 2.64e2



4_2-FTS-13C
Conc 4.9555
RT 4.210 Area 697364
Q 328.80>309.05 (-) 2.10e5

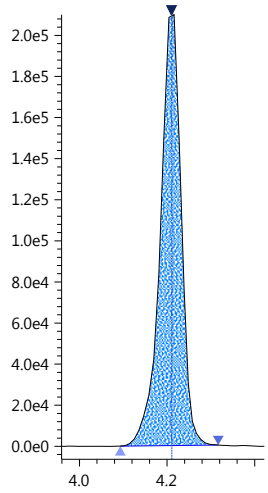


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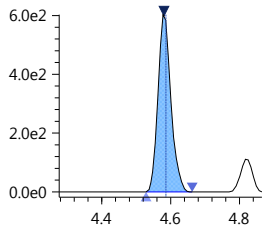
4_2-FTS-13C_IS
Conc 5.0000
RT 4.210 Area 697364

ISTD 328.80>309.05 (-) 2.10e5

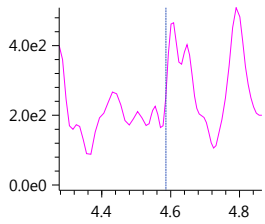


6_2-FTS_1
Conc 0.0137
RT 4.581 Area 1573
R#1 0.00 (0.00)

Q 427.00>407.00 (-) 6.03e2

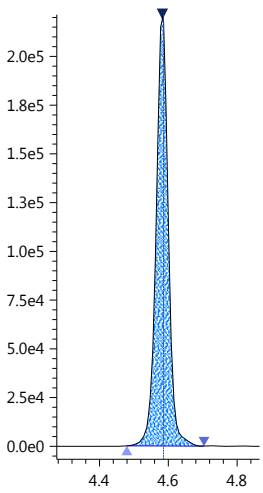


R1 427.00>80.90 (-) 5.09e2



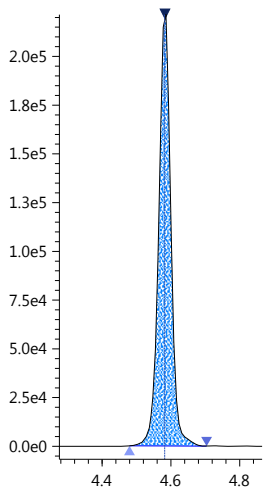
6_2-FTS-13C
Conc 4.5855
RT 4.583 Area 544810

Q 428.90>409.00 (-) 2.21e5



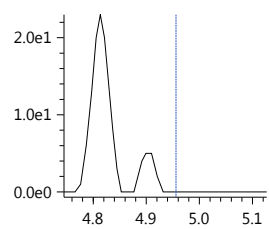
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Conc 5.0000
RT 4.583 Area 544810

ISTD 428.90>409.00 (-) 2.21e5

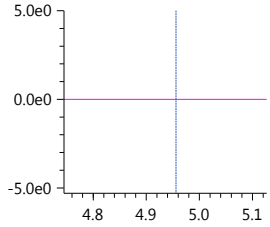


8_2-FTS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 527.10>506.90 (-) 2.30e1

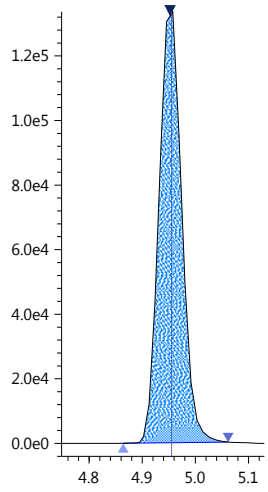


R1 527.20>487.00 (-) 0.00e0



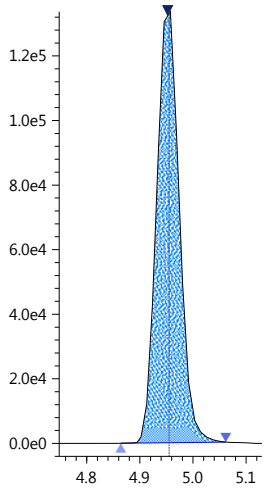
8_2-FTS-13C
Conc 5.1371
RT 4.952 Area 398734

Q 528.80>509.00 (-) 1.34e5



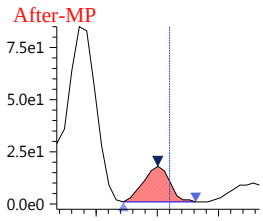
8_2-FTS-13C_IS
Conc 5.0000
RT 4.952 Area 398734

ISTD 528.80>509.00 (-) 1.34e5

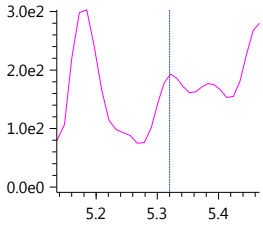


10_2-FtS_1
Conc 0.0015
RT 5.301 Area 51
R#1 76.47 (0.00)

Q 627.00>606.95 (-) 8.50e1

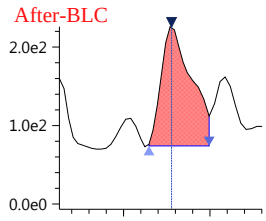


R1 627.00>81.25 (-) 3.03e2

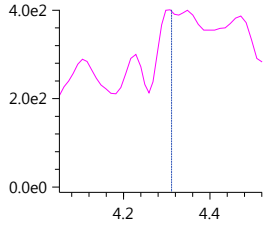


HPFO_DA
Conc 0.0018
RT 4.311 Area 738
R#1 102.13 (0.00)

Q 329.00>169.00 (-) 2.26e2

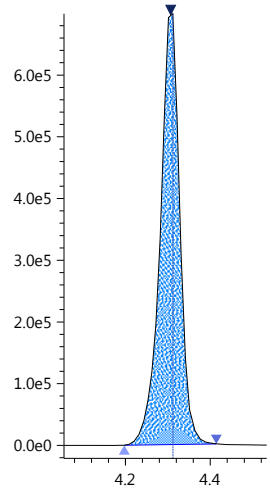


R1 329.00>285.10 (-) 4.01e2



HFPO_DA-13C
Conc 4.4003
RT 4.307 Area 2256673

Q 332.00>286.80 (-) 6.99e5



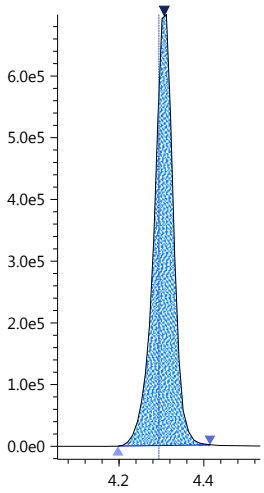
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.307 Area 2256673

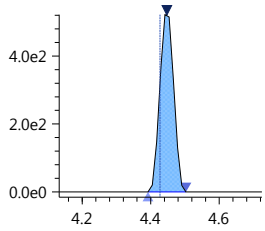
ISTD 332.00>286.80 (-) 6.99e5



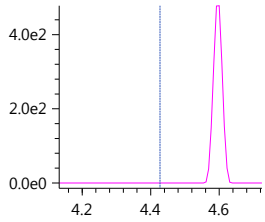
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Conc 0.0012
RT 4.447 Area 1499
R#1 0.00 (0.00)

Q 377.00>251.00 (-) 5.22e2



R1 377.00>84.95 (-) 4.78e2



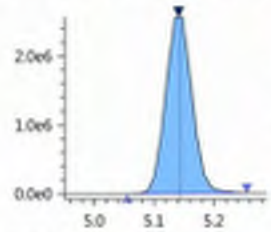
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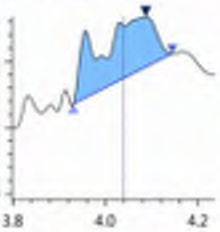
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Date acquired: 9/17/2019 5:06:12 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_013.lcd
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 1

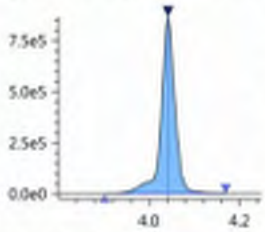
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Conc 5.0000
RT 5.141 Area 7980964
ISTD 570.00>525.00 (-) 2.57e6



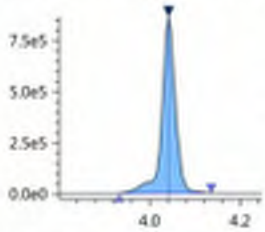
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RT 4.087 Area 3758
Q 299.00>80.00 (-) 1.34e3



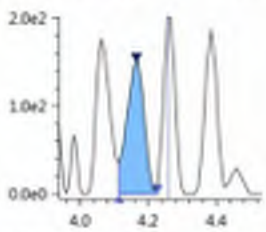
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Conc 4.9036
RT 4.042 Area 1818985
Q 301.80>80.00 (-) 8.68e5



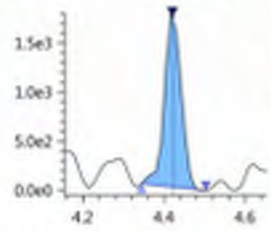
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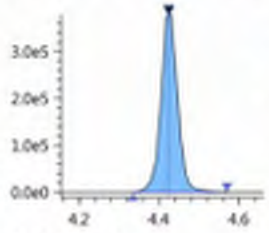
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Conc 0.0027
RT 4.165 Area 535
Q 349.00>99.00 (-) 2.02e2



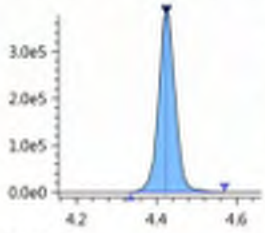
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RT 4.420 Area 5128
Q 399.00>80.00 (-) 1.80e3



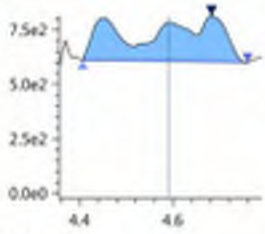
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Conc 6.0004
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Q 402.70>84.05 (-) 3.78e5



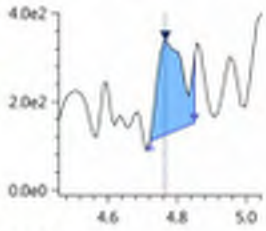
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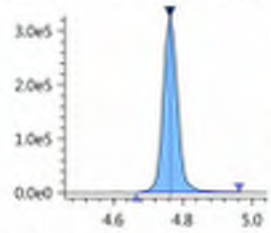
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RT 4.683 Area 2637
Q 449.00>80.15 (-) 8.13e2



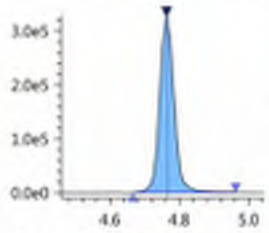
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Q 499.00>80.00 (-) 4.00e2



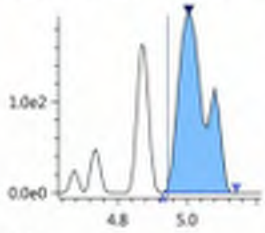
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RT 4.763 Area 954617
Q 502.80>80.05 (-) 3.29e5



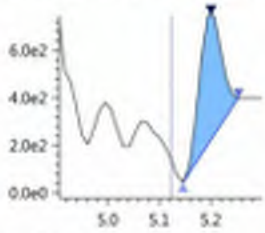
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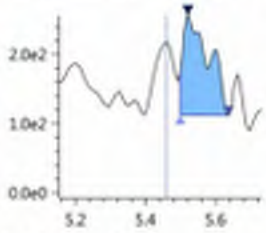
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Q 549.00>99.00 (-) 1.95e2



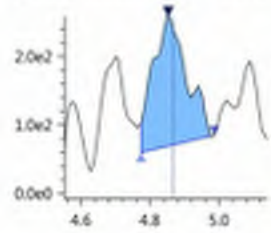
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Q 599.00>79.90 (-) 7.46e2



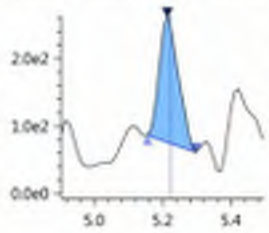
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Conc 0.0046
RT 5.520 Area 731
Q 699.00>79.95 (-) 2.56e2



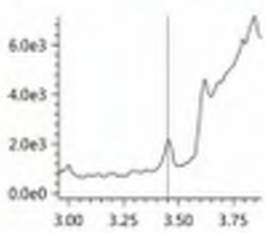
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Q 531.00>351.00 (-) 2.59e2



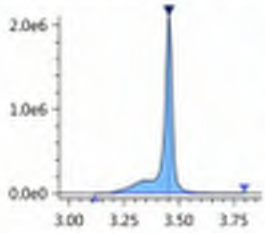
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Q 631.00>451.05 (-) 2.63e2



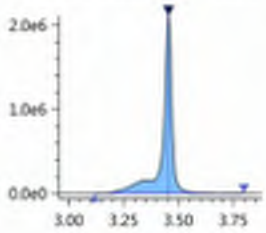
PFBA
Conc ----
RT ---- Area ----
Q 213.00>169.10 (-) 7.17e3



PFBA-13C
Conc 4.2836
RT 3.454 Area 6260731
Q 216.90>172.15 (-) 2.11e6



PFBA-13C_IS
Conc 5.0000
RT 3.454 Area 6260731
ISTD 216.90>172.15 (-) 2.11e6

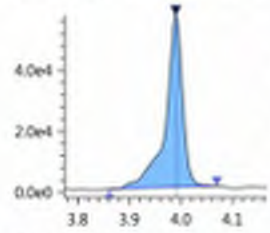


Manual Integration - Before

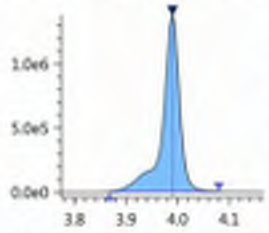
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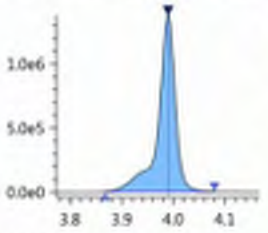
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RT 3.990 Area 131042
Q 263.05>219.10 (-) 5.81e4



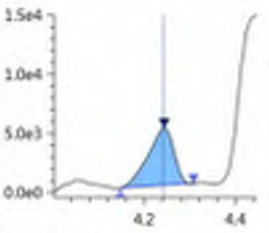
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Conc 4.2916
RT 3.990 Area 3157081
Q 267.90>223.00 (-) 1.38e6



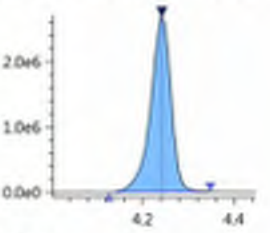
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ISTD 267.90>223.00 (-) 1.38e6



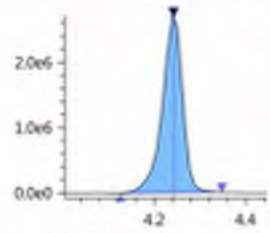
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Conc 0.0109
RT 4.243 Area 19001
Q 313.00>269.00 (-) 1.50e4



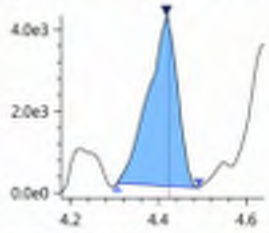
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Q 314.90>270.10 (-) 2.72e6



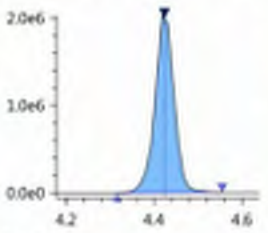
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ISTD 314.90>270.10 (-) 2.72e6



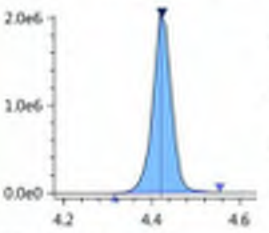
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Conc 0.0149
RT 4.418 Area 19318
Q 362.90>319.00 (-) 4.35e3



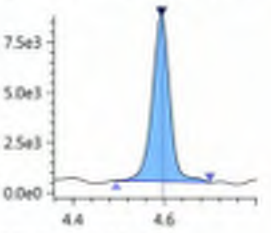
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Conc 5.0999
RT 4.423 Area 6116204
Q 366.90>322.10 (-) 2.03e6



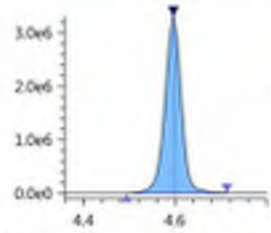
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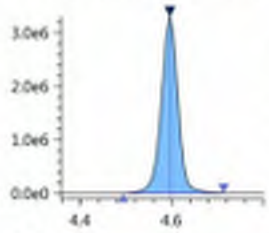
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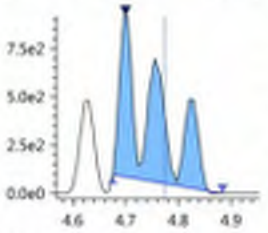
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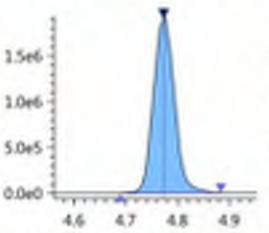
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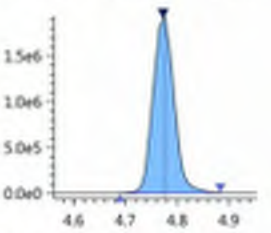
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Q 463.00>418.90 (-) 9.18e2



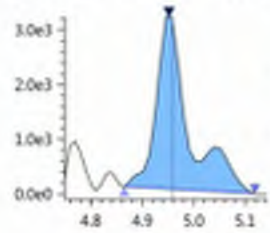
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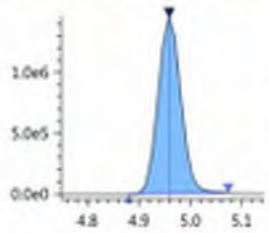
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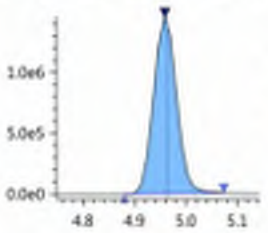
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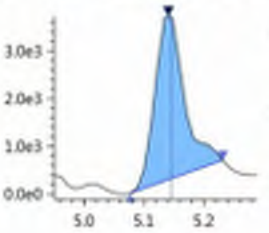
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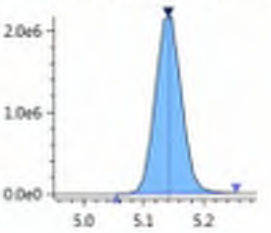
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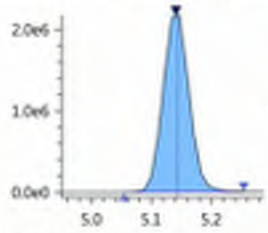


Manual Integration - Before

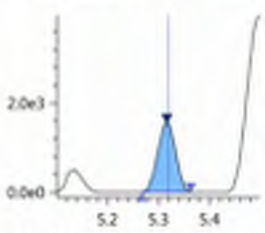
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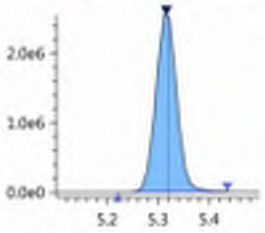
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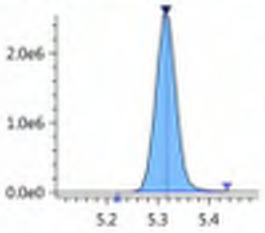
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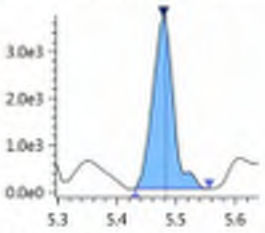
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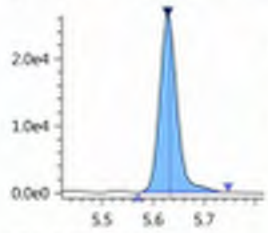
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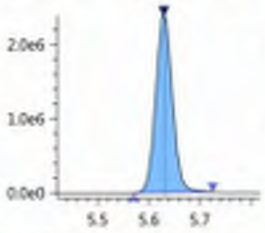
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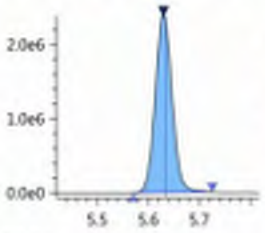
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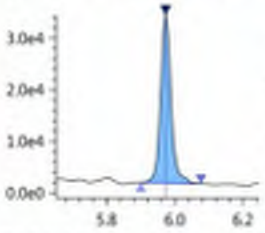
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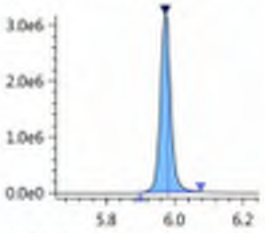
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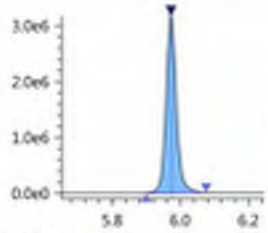
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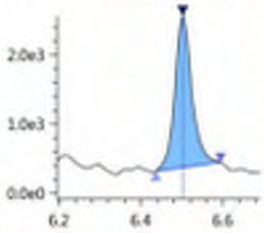
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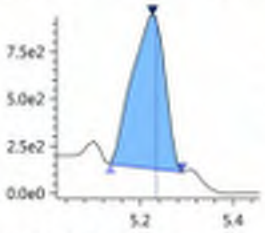
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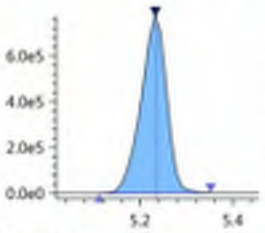
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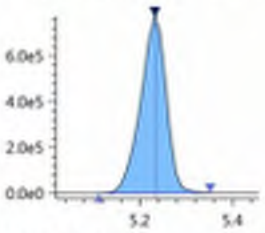
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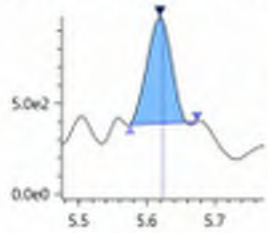
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Q 506.00>78.05 (-) 7.74e5



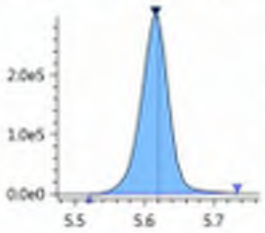
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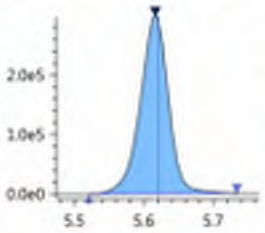
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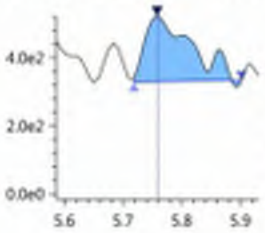
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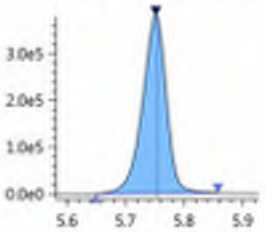
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ISTD 514.90>168.90 (-) 2.98e5



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RT 5.758 Area 1048
Q 526.90>169.10 (-) 5.21e2



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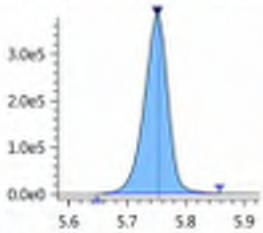
Manual Integration - Before

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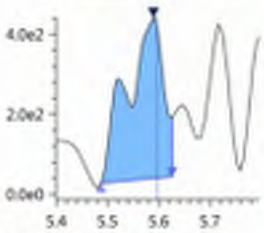
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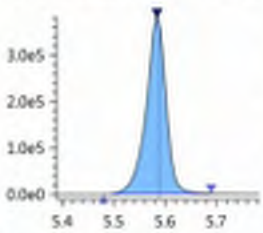
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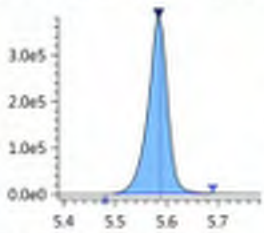
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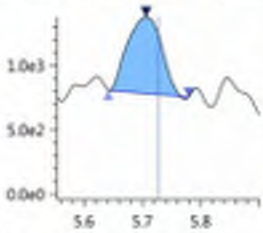
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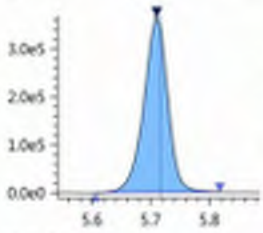
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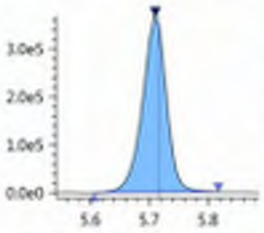
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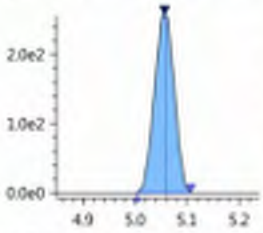
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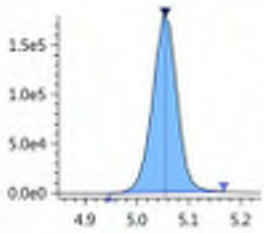
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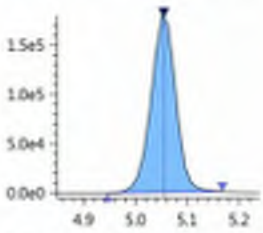
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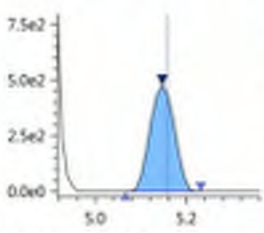
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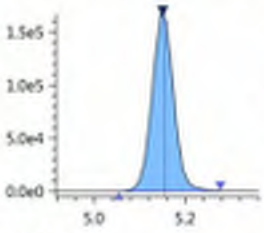
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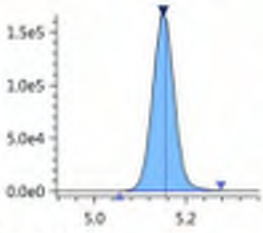
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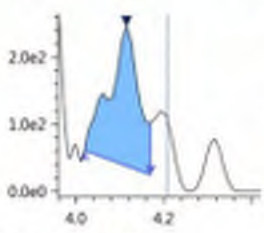
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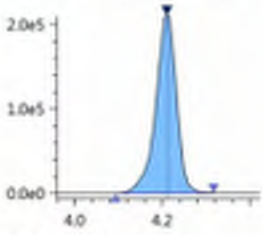
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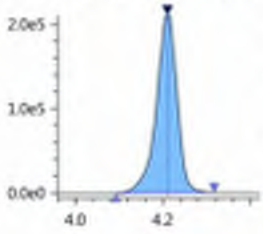
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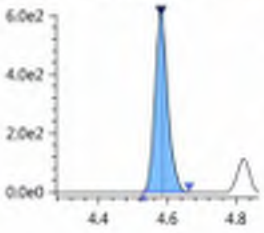
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RT 4.210 Area 697364
Q 328.80>309.05 (-) 2.10e5



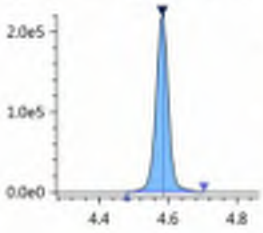
4_2-FTS-13C_IS
Conc 5.0000
RT 4.210 Area 697364
ISTD 328.80>309.05 (-) 2.10e5



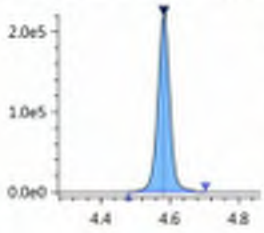
6_2-FTS_1
Conc 0.0137
RT 4.581 Area 1573
Q 427.00>407.00 (-) 6.03e2



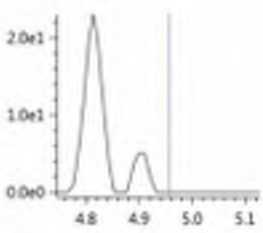
6_2-FTS-13C
Conc 4.5855
RT 4.583 Area 544810
Q 428.90>409.00 (-) 2.21e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.583 Area 544810
ISTD 428.90>409.00 (-) 2.21e5



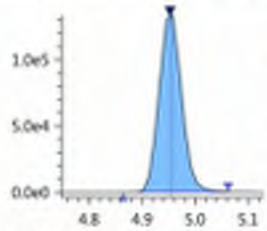
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 2.30e1



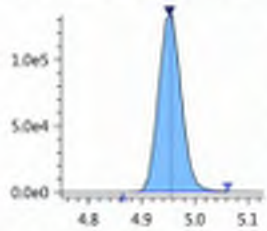
Insight Report

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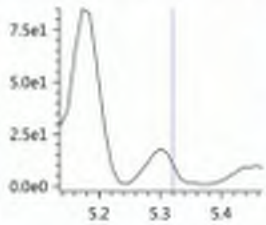
8_2-FTS-13C
Conc 5.1371
RT 4.952 Area 398734
Q 528.80>509.00 (-) 1.34e5



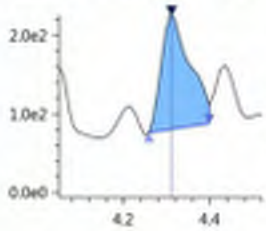
8_2-FTS-13C_IS
Conc 5.0000
RT 4.952 Area 398734
ISTD 528.80>509.00 (-) 1.34e5



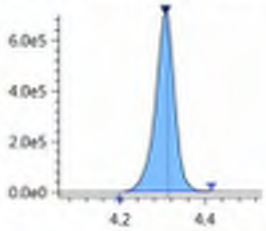
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 (-) 8.50e1



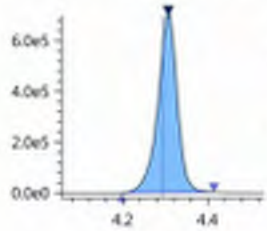
HPFO_DA
Conc 0.0018
RT 4.311 Area 672
Q 329.00>169.00 (-) 2.26e2



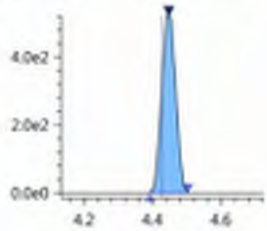
HFPO_DA-13C
Conc 3.8919
RT 4.307 Area 2256673
Q 332.00>286.80 (-) 6.99e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.307 Area 2256673
ISTD 332.00>286.80 (-) 6.99e5



ADONA
Conc 0.0012
RT 4.447 Area 1499
Q 377.00>251.00 (-) 5.22e2



Manual Integration - Before

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Insight Report

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190917_014

Sample ID: 1.0 PPB ICV
Date acquired: 9/17/2019 5:16:54 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_014.lcd
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.143	7987743	7987743	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.043	315719	1795660	2	0.8662	ng/mL	0.8874
PFBS-13C	Auto	4.045	1820352	7987743	1	4.9031	ng/mL	5.0000
PFBS-13C_IS	Auto	4.045	1795660	1795660	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.262	202848	1795660	2	1.0755	ng/mL	0.9409
PFHxS_1	Auto	4.419	209849	819757	3	1.0490	ng/mL	0.9131
PFHxS-18O	Auto	4.426	819757	7987743	1	4.4611	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.426	819757	819757	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.593	261375	819757	3	1.0349	ng/mL	0.9534
PFOS_1	Auto	4.767	171630	1295116	4	0.9658	ng/mL	0.9292
PFOS-13C	Auto	4.767	1295116	7987743	1	4.8357	ng/mL	5.0000
PFOS-13C_IS	Auto	4.767	1295116	1295116	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.948	147159	1295116	4	1.0744	ng/mL	0.9616
PFDS_1	M	5.125	163630	1295116	4	0.9199	ng/mL	0.9647
PFDOS	M	5.458	188796	1295116	4	0.8706	ng/mL	0.9696
9Cl-PF3ONS	Auto	4.871	1230913	2554063	26	0.9381	ng/mL	0.9332
11Cl-PF3OUdS	Auto	5.223	1100313	2554063	26	1.2219	ng/mL	0.9432
PFBA	Auto	3.458	1045111	6644278	5	1.0182	ng/mL	1.0000
PFBA-13C	Auto	3.458	6644278	7987743	1	4.5847	ng/mL	5.0000
PFBA-13C_IS	Auto	3.458	6644278	6644278	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.994	1360486	3470769	6	0.9969	ng/mL	1.0000
PFPeA-13C	Auto	3.994	3470769	7987743	1	4.7140	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.994	3470769	3470769	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.245	1571675	7987395	7	1.0088	ng/mL	1.0000
PFHxA-13C	Auto	4.245	7987395	7987743	1	4.5007	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.245	7987395	7987395	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.424	1180985	6064381	8	0.9818	ng/mL	1.0000
PFHpA-13C	Auto	4.424	6064381	7987743	1	5.0524	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.424	6064381	6064381	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.599	1702237	9618039	9	1.0542	ng/mL	1.0000
PFOA-13C	Auto	4.599	9618039	7987743	1	4.9738	ng/mL	5.0000
PFOA-13C_IS	Auto	4.599	9618039	9618039	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.778	1101472	6293360	10	1.0534	ng/mL	1.0000
PFNA-13C	Auto	4.778	6293360	7987743	1	4.6212	ng/mL	5.0000
PFNA-13C_IS	Auto	4.778	6293360	6293360	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.962	1017901	5862384	11	1.1023	ng/mL	1.0000
PFDA-13C	Auto	4.963	5862384	7987743	1	5.2040	ng/mL	5.0000
PFDA-13C_IS	Auto	4.963	5862384	5862384	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.143	944448	6431094	12	1.1074	ng/mL	1.0000
PFUnA-13C	Auto	5.143	6431094	7987743	1	5.0793	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.143	6431094	6431094	12	5.0000	ng/mL	5.0000
PFDoA	M	5.319	710536	6948322	13	1.0132	ng/mL	1.0000
PFDoA-13C	Auto	5.319	6948322	7987743	1	4.5221	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.319	6948322	6948322	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.483	1082472	5724191	14	0.9705	ng/mL	1.0000
PFTeDA	Auto	5.633	532170	5724191	14	1.0107	ng/mL	1.0000
PFTeDA-13C	Auto	5.633	5724191	7987743	1	4.6933	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.633	5724191	5724191	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.976	1247821	7278950	15	1.0644	ng/mL	1.0000
13C-PFHxDA	Auto	5.976	7278950	7987743	1	4.6697	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.976	7278950	7278950	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.501	863176	7278950	15	1.0190	ng/mL	1.0000
FOSA	Auto	5.235	735750	2910339	16	1.0231	ng/mL	1.0000
FOSA-13C	Auto	5.236	2910339	7987743	1	4.3734	ng/mL	5.0000
FOSA-13C_IS	Auto	5.236	2910339	2910339	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.624	239605	970876	17	0.8671	ng/mL	1.0000
N-MeFOSA-d3	Auto	5.621	970876	7987743	1	4.7762	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.621	970876	970876	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.762	50251	1264900	18	1.0434	ng/mL	1.0000
N-EtFOSA-d9	Auto	5.756	1264900	7987743	1	4.5534	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.756	1264900	1264900	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.595	300764	1125458	19	1.0469	ng/mL	1.0000
N-MeFOSE-d7	Auto	5.588	1125458	7987743	1	4.5663	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.588	1125458	1125458	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.726	321530	1115469	20	1.0997	ng/mL	1.0000
N-EtFOSE-d9	Auto	5.714	1115469	7987743	1	4.4394	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.714	1115469	1115469	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.061	77633	576531	21	1.0262	ng/mL	1.0000

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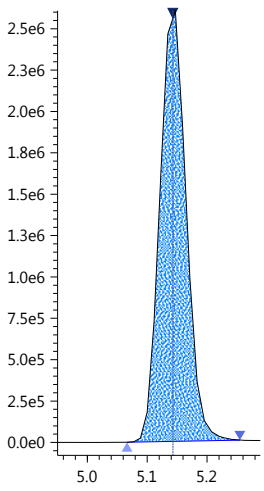
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.056	576531	7987743	1	4.6374	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.056	576531	576531	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.159	54120	530176	22	1.0884	ng/mL	1.0000
N-EtFOSAA-d5	Auto	5.153	530176	7987743	1	4.6705	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.153	530176	530176	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.215	86502	549848	23	0.9052	ng/mL	0.9372
4_2-FTS-13C	Auto	4.216	549848	7987743	1	3.9039	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.216	549848	549848	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.586	111173	546684	24	0.9642	ng/mL	0.9512
6_2-FTS-13C	Auto	4.586	546684	7987743	1	4.5973	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.586	546684	546684	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.956	48280	342409	25	1.0010	ng/mL	0.9600
8_2-FTS-13C	Auto	4.956	342409	7987743	1	4.4077	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.956	342409	342409	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.320	31228	342409	25	1.0537	ng/mL	0.9662
HPFO_DA	Auto	4.312	444638	2554063	26	0.9648	ng/mL	1.0000
HFPO_DA-13C	Auto	4.313	2554063	7987743	1	4.9759	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.313	2554063	2554063	26	5.0000	ng/mL	5.0000
ADONA	M	4.443	1401303	2554063	26	0.9874	ng/mL	0.9451

13C7-PFUnDA_IS

Conc 5.0000
RT 5.143 Area 7987743

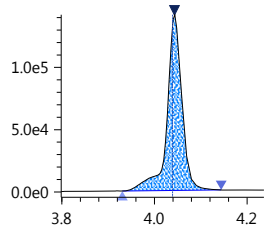
ISTD 570.00>525.00 (-) 2.61e6



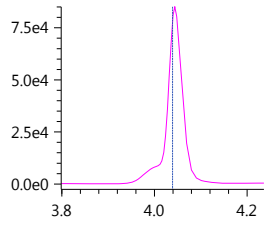
PFBS_1

Conc 0.8662
RT 4.043 Area 315719
R#1 58.48 (0.00)

Q 299.00>80.00 (-) 1.42e5



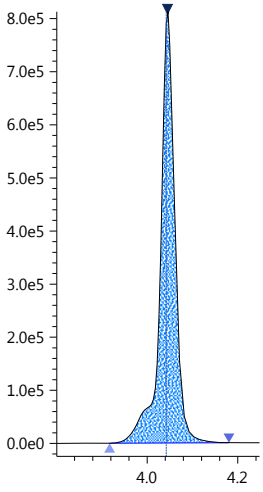
R1 298.80>99.00 (-) 8.51e4



PFBS-13C

Conc 4.9031
RT 4.045 Area 1820352

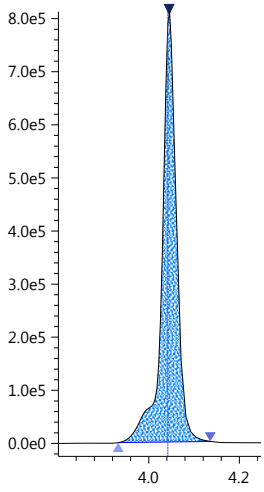
Q 301.80>80.00 (-) 8.13e5



PFBS-13C_IS

Conc 5.0000
RT 4.045 Area 1795660

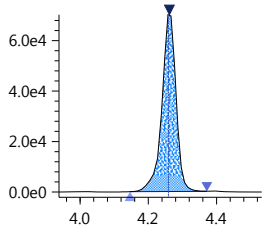
ISTD 301.80>80.00 (-) 8.13e5



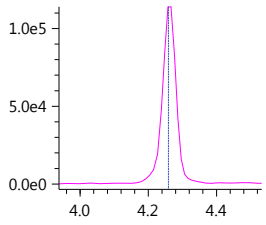
PFPeS

Conc 1.0755
RT 4.262 Area 202848
R#1 161.68 (0.00)

Q 349.00>99.00 (-) 7.03e4



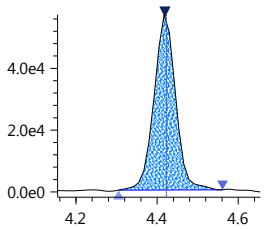
R1 349.00>79.95 (-) 1.14e5



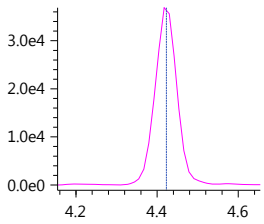
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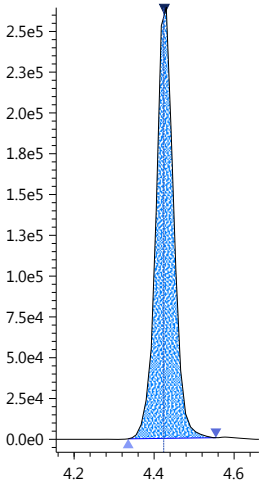
PFHxS_1
Conc 1.0490
RT 4.419 Area 209849
R#1 64.80 (0.00)
Q 399.00>80.00 (-) 5.74e4



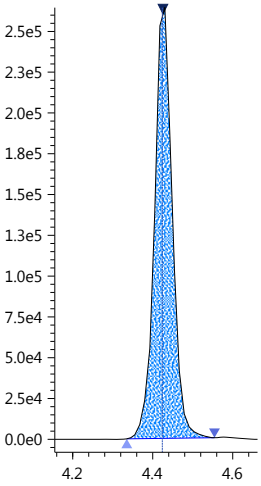
R1 399.00>99.00 (-) 3.69e4



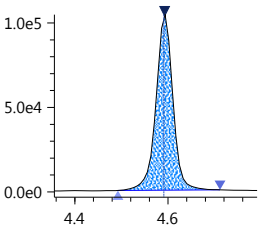
PFHxS-18O
Conc 4.4611
RT 4.426 Area 819757
Q 402.70>84.05 (-) 2.65e5



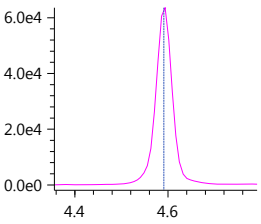
PFHxS-18O_IS
Conc 5.0000
RT 4.426 Area 819757
ISTD 402.70>84.05 (-) 2.65e5



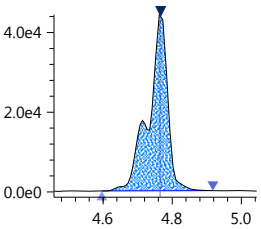
PFHpS_1
Conc 1.0349
RT 4.593 Area 261375
R#1 60.82 (0.00)
Q 449.00>80.15 (-) 1.05e5



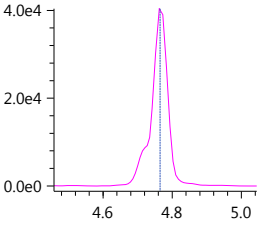
R1 449.00>99.20 (-) 6.36e4



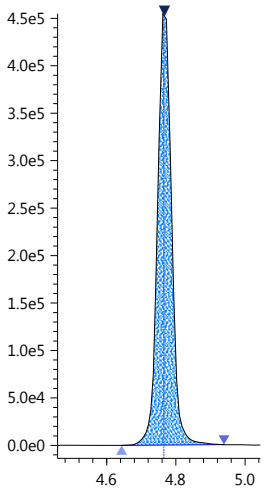
PFOS_1
Conc 0.9658
RT 4.767 Area 171630
R#1 91.11 (0.00)
Q 499.00>80.00 (-) 4.45e4



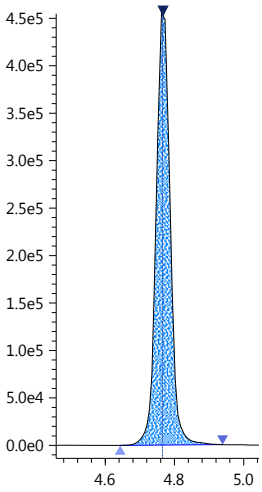
R1 499.00>99.00 (-) 4.04e4



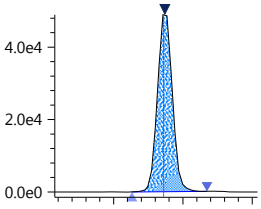
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Conc 4.8357
RT 4.767 Area 1295116
Q 502.80>80.05 (-) 4.55e5



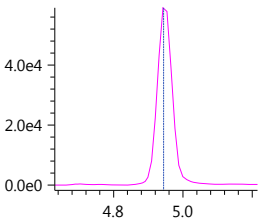
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Conc 5.0000
RT 4.767 Area 1295116
ISTD 502.80>80.05 (-) 4.55e5



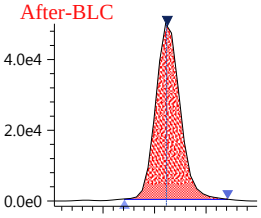
PFNS
Conc 1.0744
RT 4.948 Area 147159
R#1 120.27 (0.00)
Q 549.00>99.00 (-) 4.90e4



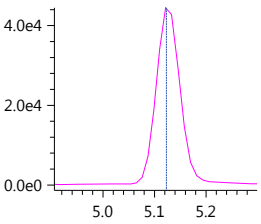
R1 549.00>79.95 (-) 5.91e4



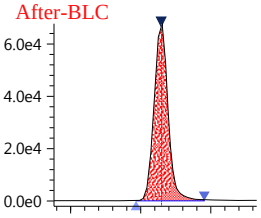
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Conc 0.9199
RT 5.125 Area 163630
R#1 90.20 (0.00)
Q 599.00>79.90 (-) 5.01e4



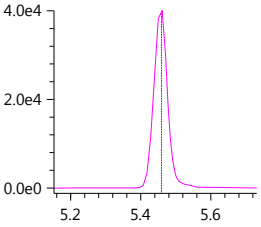
R1 599.00>99.10 (-) 4.45e4



PFDOS
Conc 0.8706
RT 5.458 Area 188796
R#1 59.13 (0.00)
Q 699.00>79.95 (-) 6.77e4



R1 699.00>99.05 (-) 4.00e4



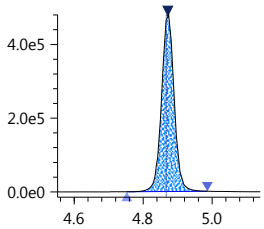
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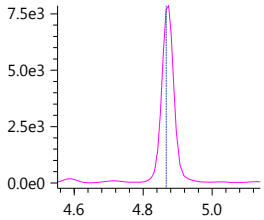
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Conc 0.9381
RT 4.871 Area 1230913
R#1 1.64 (0.00)

Q 531.00>351.00 (-) 4.81e5



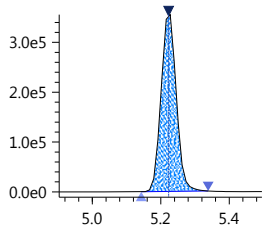
R1 531.00>98.90 (-) 7.86e3



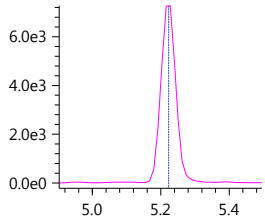
11Cl-PF3OUdS

Conc 1.2219
RT 5.223 Area 1100313
R#1 2.09 (0.00)

Q 631.00>451.05 (-) 3.56e5



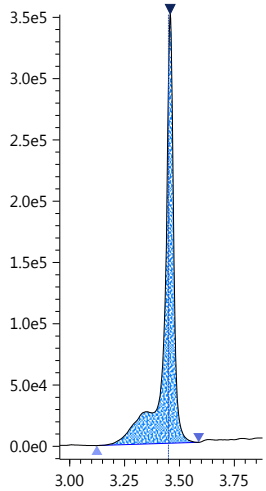
R1 631.00>98.90 (-) 7.27e3



PFBA

Conc 1.0182
RT 3.458 Area 1045111

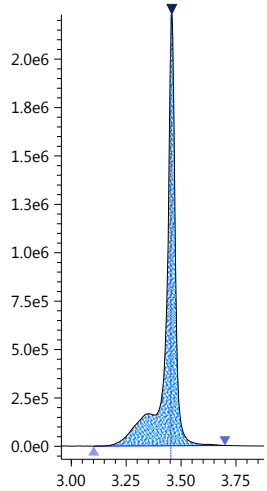
Q 213.00>169.10 (-) 3.52e5



PFBA-13C

Conc 4.5847
RT 3.458 Area 6644278

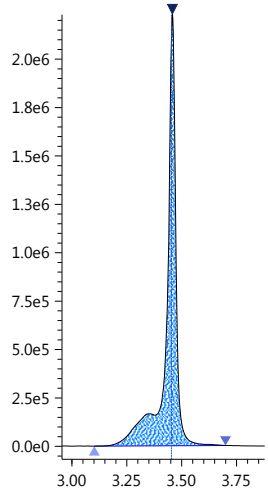
Q 216.90>172.15 (-) 2.23e6



PFBA-13C_IS

Conc 5.0000
RT 3.458 Area 6644278

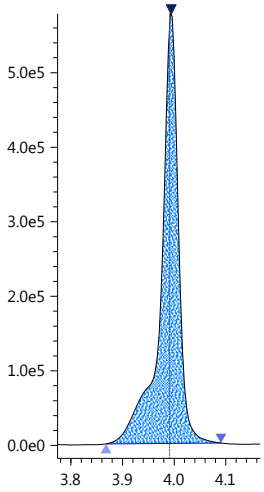
ISTD 216.90>172.15 (-) 2.23e6



PFPeA

Conc 0.9969
RT 3.994 Area 1360486

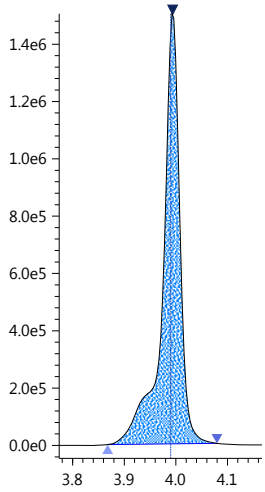
Q 263.05>219.10 (-) 5.79e5



PFPeA-13C

Conc 4.7140
RT 3.994 Area 3470769

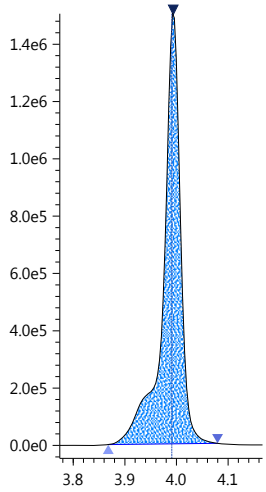
Q 267.90>223.00 (-) 1.51e6



PFPeA-13C_IS

Conc 5.0000
RT 3.994 Area 3470769

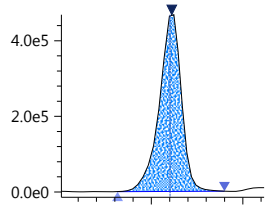
ISTD 267.90>223.00 (-) 1.51e6



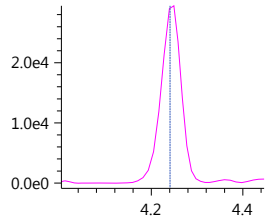
PFHxA

Conc 1.0088
RT 4.245 Area 1571675
R#1 6.16 (0.00)

Q 313.00>269.00 (-) 4.69e5



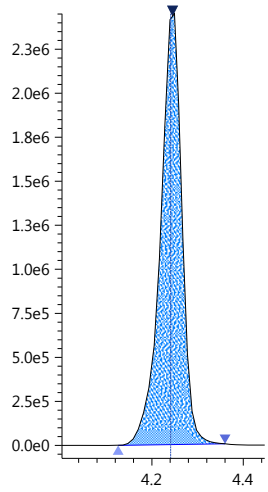
R1 313.00>119.10 (-) 2.95e4



PFHxA-13C

Conc 4.5007
RT 4.245 Area 7987395

Q 314.90>270.10 (-) 2.45e6



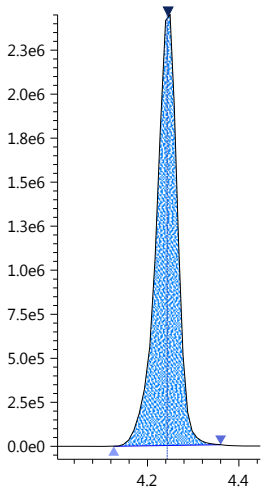
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Conc 5.0000
RT 4.245 Area 7987395

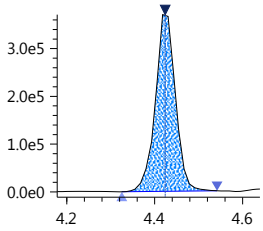
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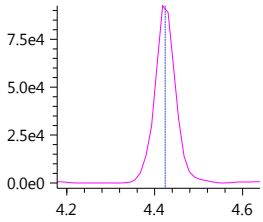
PFHpA

Conc 0.9818
RT 4.424 Area 1180985
R#1 24.46 (0.00)

Q 362.90>319.00 (-) 3.71e5



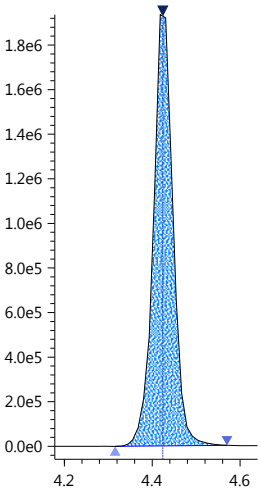
R1 362.90>169.00 (-) 9.25e4



PFHpA-13C

Conc 5.0524
RT 4.424 Area 6064381

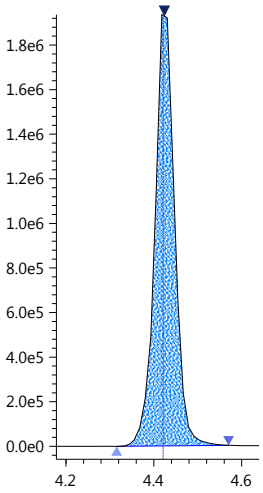
Q 366.90>322.10 (-) 1.94e6



PFHpA-13C_IS

Conc 5.0000
RT 4.424 Area 6064381

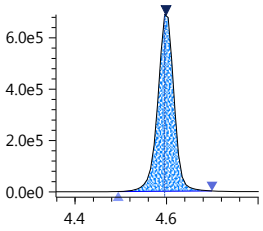
ISTD 366.90>322.10 (-) 1.94e6



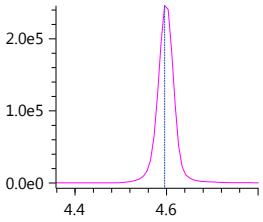
PFOA

Conc 1.0542
RT 4.599 Area 1702237
R#1 35.62 (0.00)

Q 413.00>369.00 (-) 6.90e5



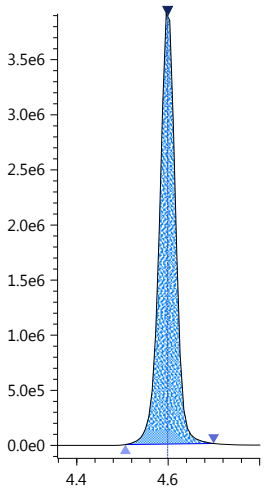
R1 413.00>169.10 (-) 2.46e5



PFOA-13C

Conc 4.9738
RT 4.599 Area 9618039

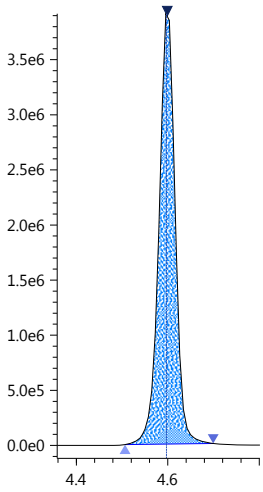
Q 416.80>372.05 (-) 3.92e6



PFOA-13C_IS

Conc 5.0000
RT 4.599 Area 9618039

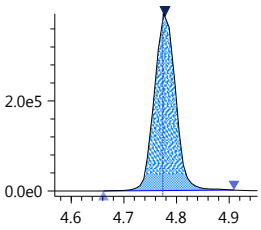
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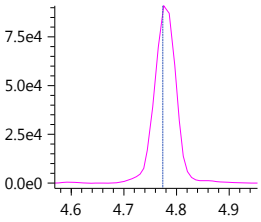
PFNA

Conc 1.0534
RT 4.778 Area 1101472
R#1 23.10 (0.00)

Q 463.00>418.90 (-) 3.94e5



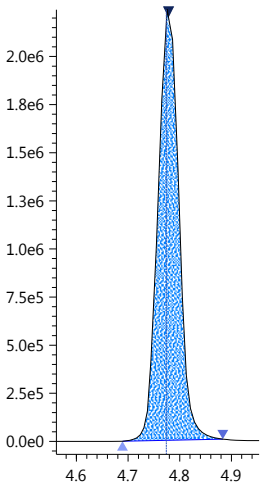
R1 463.00>219.00 (-) 9.10e4



PFNA-13C

Conc 4.6212
RT 4.778 Area 6293360

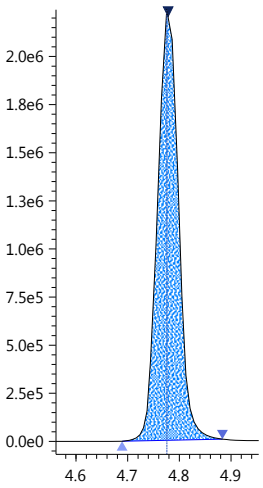
Q 467.80>423.00 (-) 2.24e6



PFNA-13C_IS

Conc 5.0000
RT 4.778 Area 6293360

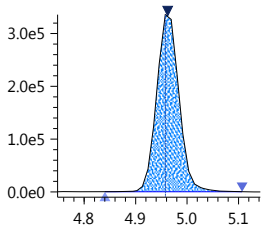
ISTD 467.80>423.00 (-) 2.24e6



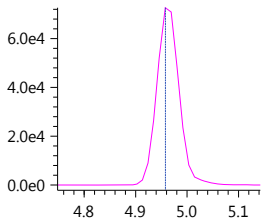
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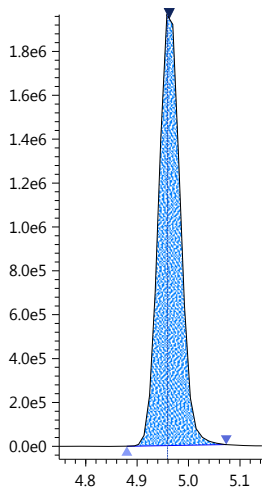
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Conc 1.1023
RT 4.962 Area 1017901
R#1 21.61 (0.00)
Q 513.00>468.80 (-) 3.36e5



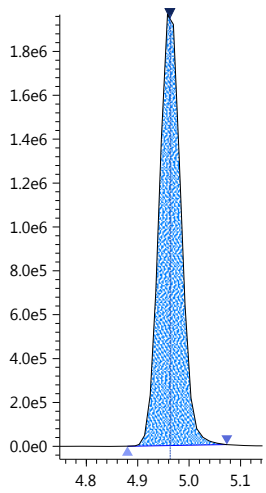
R1 513.00>219.10 (-) 7.26e4



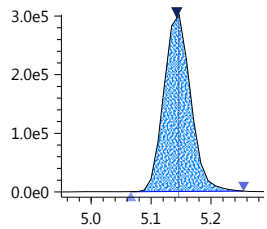
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Conc 5.2040
RT 4.963 Area 5862384
Q 514.80>469.95 (-) 1.97e6



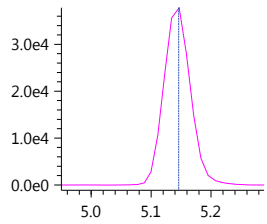
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ISTD 514.80>469.95 (-) 1.97e6



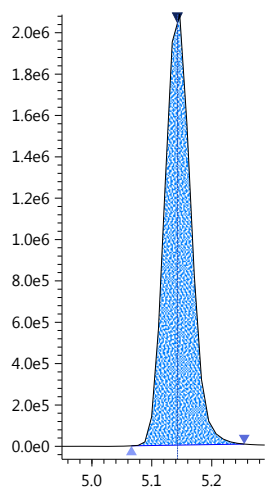
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Conc 1.1074
RT 5.143 Area 944448
R#1 12.51 (0.00)
Q 563.00>518.90 (-) 3.02e5



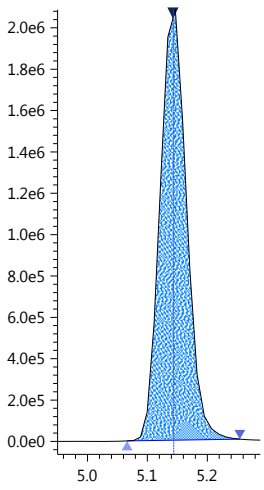
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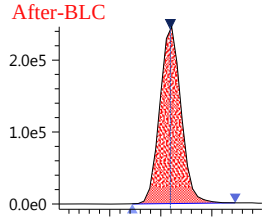
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Conc 5.0793
RT 5.143 Area 6431094
Q 564.80>519.95 (-) 2.09e6



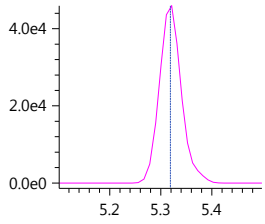
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ISTD 564.80>519.95 (-) 2.09e6



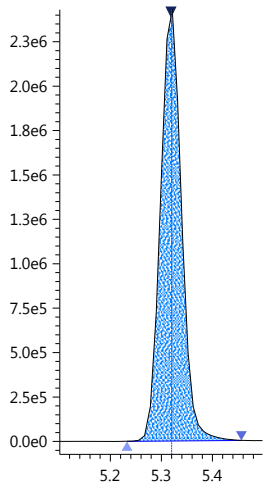
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Conc 1.0132
RT 5.319 Area 710536
R#1 18.72 (0.00)
Q 613.05>569.00 (-) 2.46e5



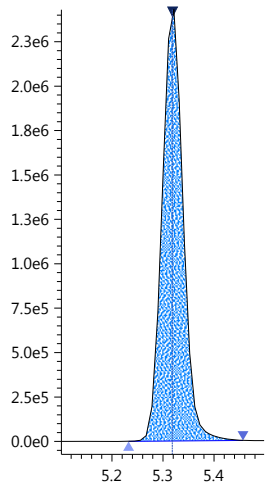
R1 613.05>169.00 (-) 4.59e4



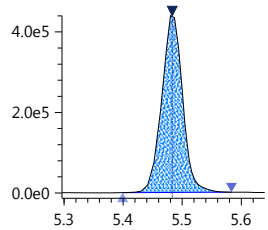
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Q 614.80>569.95 (-) 2.43e6



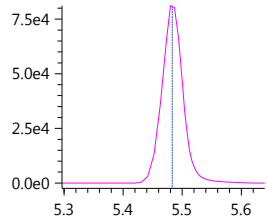
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ISTD 614.80>569.95 (-) 2.43e6



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RT 5.483 Area 1082472
R#1 18.45 (0.00)
Q 663.00>618.90 (-) 4.40e5



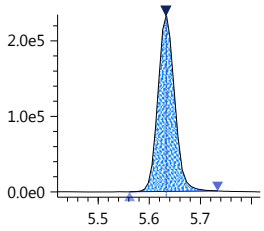
R1 662.90>169.00 (-) 8.11e4



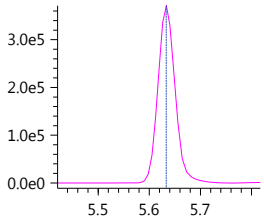
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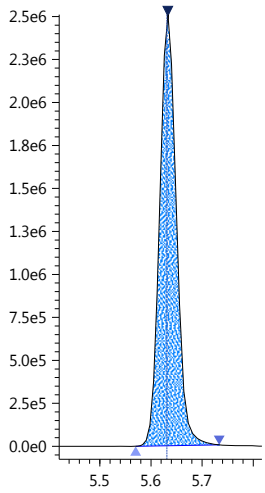
PFTeDA
Conc 1.0107
RT 5.633 Area 532170
R#1 158.33 (0.00)
Q 713.40>669.00 (-) 2.35e5



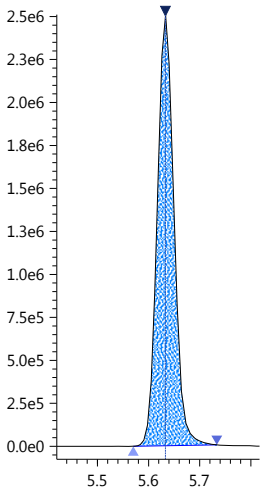
R1 713.40>169.10 (-) 3.71e5



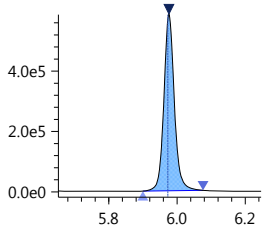
PFTeDA-13C
Conc 4.6933
RT 5.633 Area 5724191
Q 714.70>669.90 (-) 2.51e6



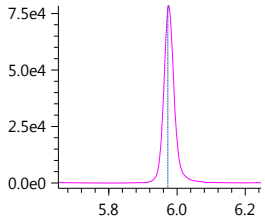
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Conc 5.0000
RT 5.633 Area 5724191
ISTD 714.70>669.90 (-) 2.51e6



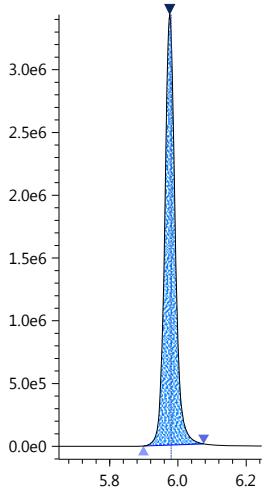
PFHxDA
Conc 1.0644
RT 5.976 Area 1247821
R#1 13.46 (0.00)
Q 813.00>769.05 (-) 5.87e5



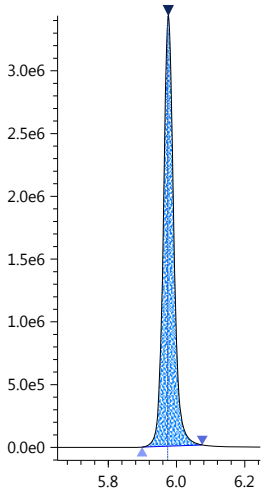
R1 813.00>218.95 (-) 7.84e4



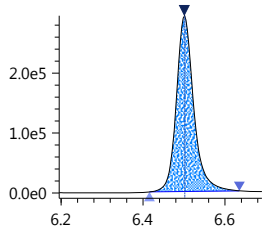
13C-PFHxDA
Conc 4.6697
RT 5.976 Area 7278950
Q 815.00>770.05 (-) 3.44e6



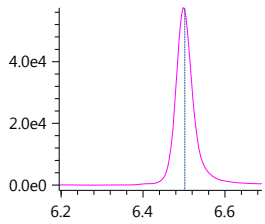
13C-PFHxDA_IS
Conc 5.0000
RT 5.976 Area 7278950
ISTD 815.00>770.05 (-) 3.44e6



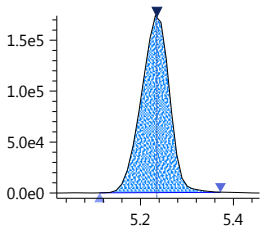
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Conc 1.0190
RT 6.501 Area 863176
R#1 19.81 (0.00)
Q 913.00>868.85 (-) 2.96e5



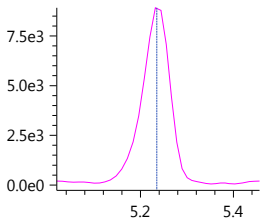
R1 913.00>169.00 (-) 5.75e4



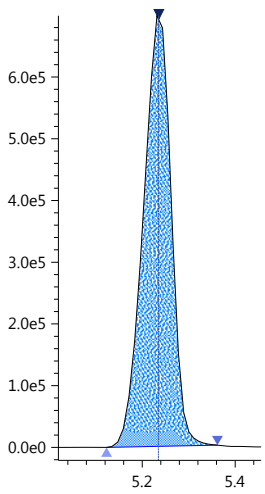
FOSA
Conc 1.0231
RT 5.235 Area 735750
R#1 5.06 (0.00)
Q 498.20>78.00 (-) 1.74e5



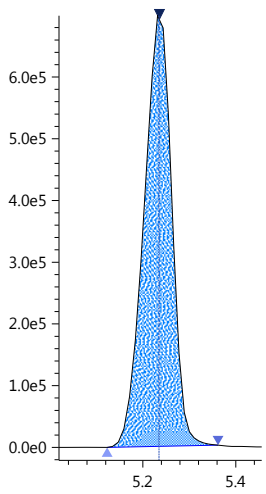
R1 498.20>64.10 (-) 8.92e3



FOSA-13C
Conc 4.3734
RT 5.236 Area 2910339
Q 506.00>78.05 (-) 6.99e5



FOSA-13C_IS
Conc 5.0000
RT 5.236 Area 2910339
ISTD 506.00>78.05 (-) 6.99e5



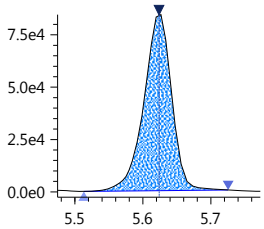
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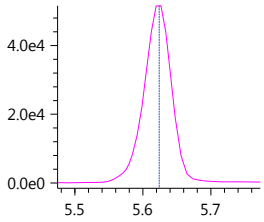
N-MeFOSA

Conc 0.8671
RT 5.624 Area 239605
R#1 61.05 (0.00)

Q 512.00>169.10 (-) 8.46e4



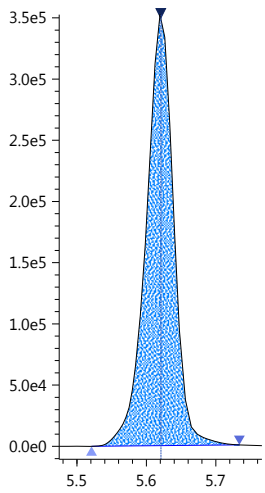
R1 512.00>219.00 (-) 5.16e4



N-MeFOSA-d3

Conc 4.7762
RT 5.621 Area 970876

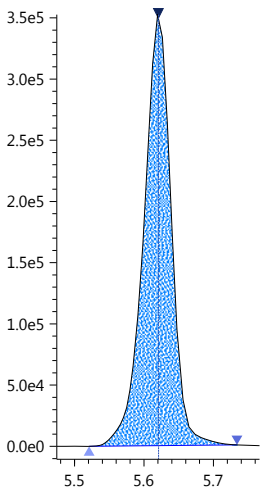
Q 514.90>168.90 (-) 3.53e5



N-MeFOSA-d3_IS

Conc 5.0000
RT 5.621 Area 970876

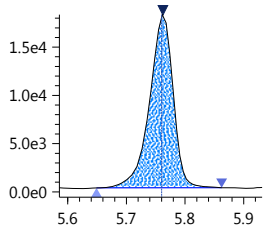
ISTD 514.90>168.90 (-) 3.53e5



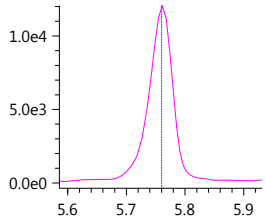
N-EtFOSA

Conc 1.0434
RT 5.762 Area 50251
R#1 66.19 (0.00)

Q 526.90>169.10 (-) 1.84e4



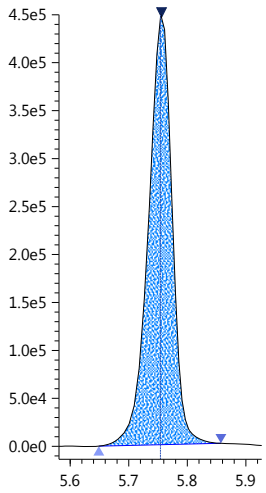
R1 526.90>219.00 (-) 1.21e4



N-EtFOSA-d9

Conc 4.5534
RT 5.756 Area 1264900

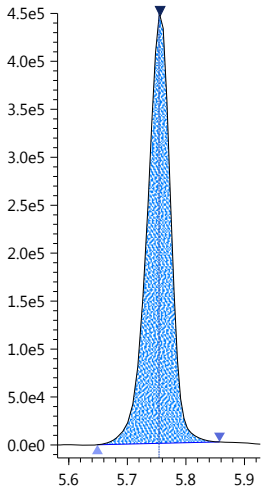
Q 530.90>169.15 (-) 4.50e5



N-EtFOSA-d9_IS

Conc 5.0000
RT 5.756 Area 1264900

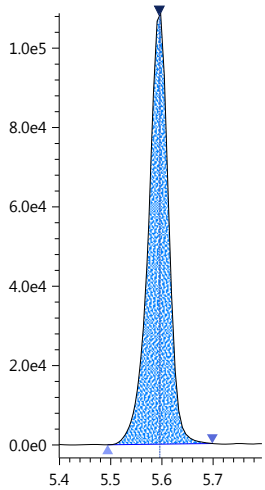
ISTD 530.90>169.15 (-) 4.50e5



N-MeFOSE

Conc 1.0469
RT 5.595 Area 300764

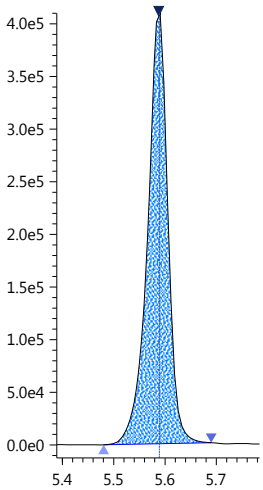
Q 616.00>59.00 (-) 1.09e5



N-MeFOSE-d7

Conc 4.5663
RT 5.588 Area 1125458

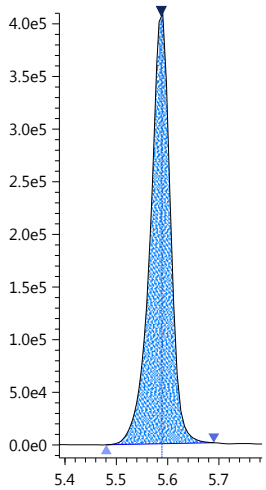
Q 622.70>59.10 (-) 4.10e5



N-MeFOSE-d7_IS

Conc 5.0000
RT 5.588 Area 1125458

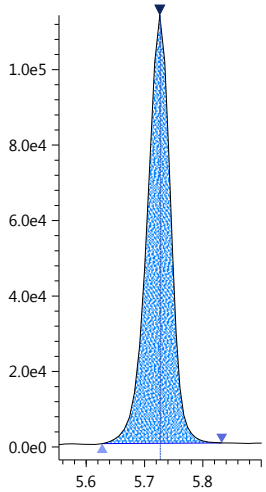
ISTD 622.70>59.10 (-) 4.10e5



N-EtFOSE

Conc 1.0997
RT 5.726 Area 321530

Q 630.00>58.90 (-) 1.14e5



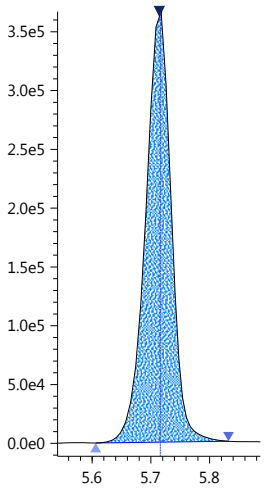
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N-EtFOSE-d9

Conc 4.4394
RT 5.714 Area 1115469

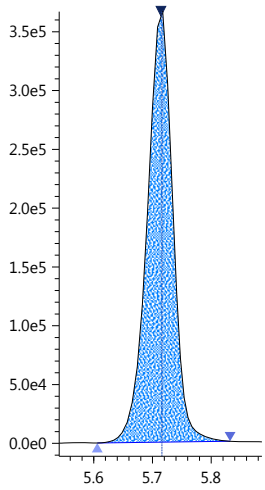
Q 638.70>59.10 (-) 3.67e5



N-EtFOSE-d9_IS

Conc 5.0000
RT 5.714 Area 1115469

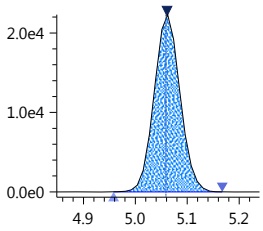
ISTD 638.70>59.10 (-) 3.67e5



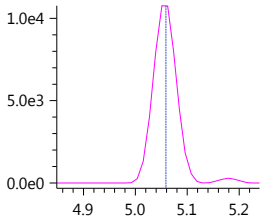
N-MeFOSAA

Conc 1.0262
RT 5.061 Area 77633
R#1 47.27 (0.00)

Q 570.20>419.00 (-) 2.23e4



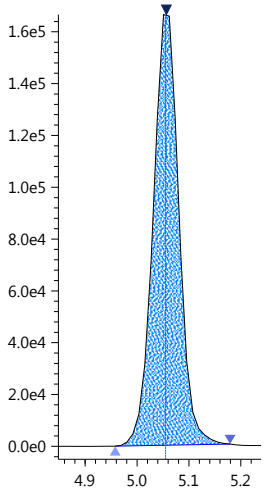
R1 570.20>512.00 (-) 1.08e4



N-MeFOSAA-d3

Conc 4.6374
RT 5.056 Area 576531

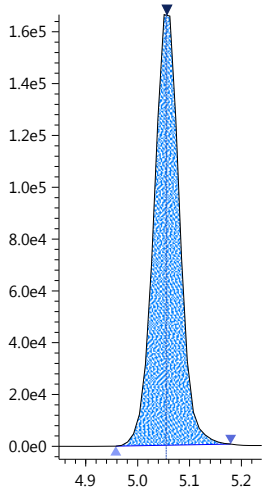
Q 572.80>419.05 (-) 1.67e5



N-MeFOSAA-d3_IS

Conc 5.0000
RT 5.056 Area 576531

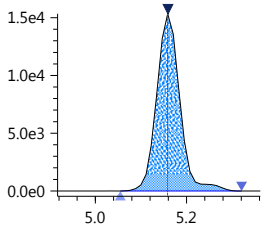
ISTD 572.80>419.05 (-) 1.67e5



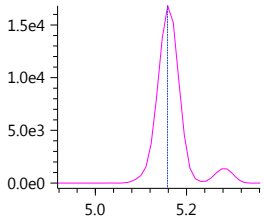
N-EtFOSAA

Conc 1.0884
RT 5.159 Area 54120
R#1 108.19 (0.00)

Q 584.20>418.95 (-) 1.53e4



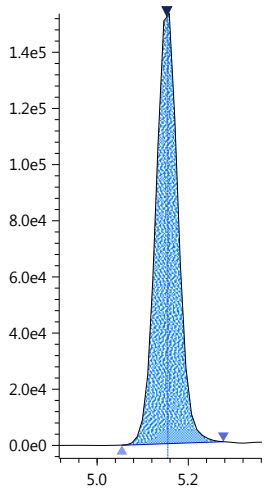
R1 584.20>526.10 (-) 1.68e4



N-EtFOSAA-d5

Conc 4.6705
RT 5.153 Area 530176

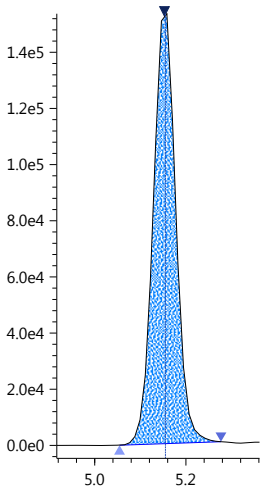
Q 588.80>419.00 (-) 1.54e5



N-EtFOSAA-d5_IS

Conc 5.0000
RT 5.153 Area 530176

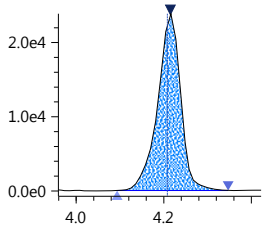
ISTD 588.80>419.00 (-) 1.54e5



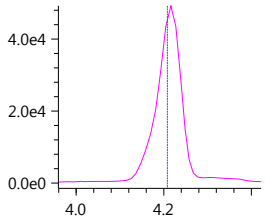
4_2-FTS_1

Conc 0.9052
RT 4.215 Area 86502
R#1 202.99 (0.00)

Q 327.00>307.05 (-) 2.39e4



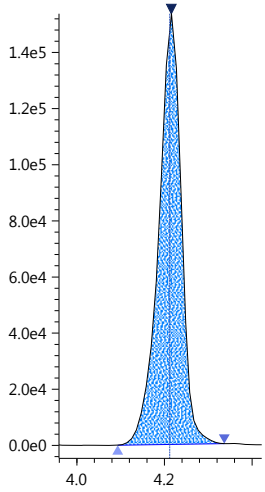
R1 327.00>81.10 (-) 4.93e4



4_2-FTS-13C

Conc 3.9039
RT 4.216 Area 549848

Q 328.80>309.05 (-) 1.54e5

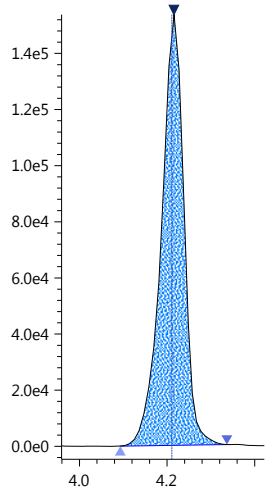


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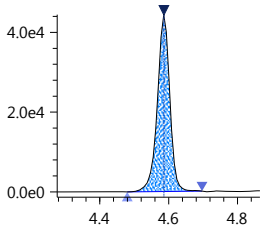
4_2-FTS-13C_IS
Conc 5.0000
RT 4.216 Area 549848

ISTD 328.80>309.05 (-) 1.54e5

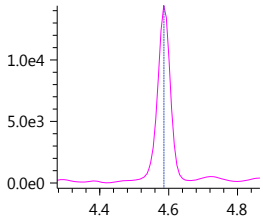


6_2-FTS_1
Conc 0.9642
RT 4.586 Area 111173
R#1 31.77 (0.00)

Q 427.00>407.00 (-) 4.44e4

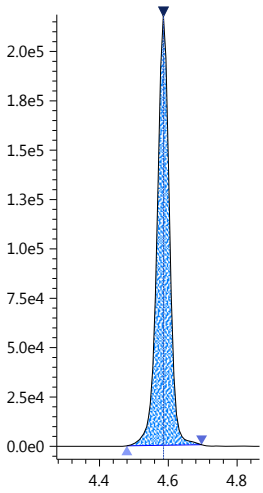


R1 427.00>80.90 (-) 1.44e4



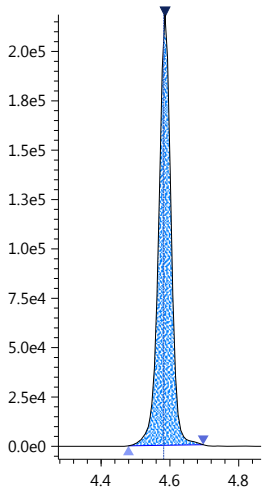
6_2-FTS-13C
Conc 4.5973
RT 4.586 Area 546684

Q 428.90>409.00 (-) 2.19e5



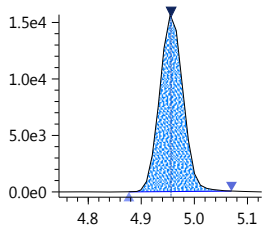
6_2-FTS-13C_IS
Conc 5.0000
RT 4.586 Area 546684

ISTD 428.90>409.00 (-) 2.19e5

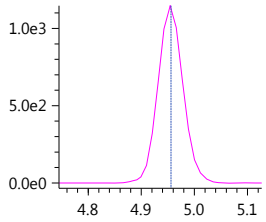


8_2-FTS_1
Conc 1.0010
RT 4.956 Area 48280
R#1 7.34 (0.00)

Q 527.10>506.90 (-) 1.57e4

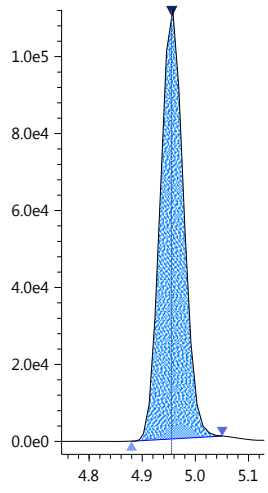


R1 527.20>487.00 (-) 1.15e3



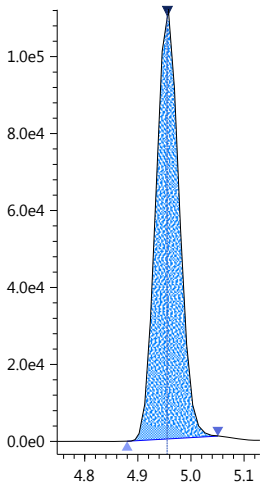
8_2-FTS-13C
Conc 4.4077
RT 4.956 Area 342409

Q 528.80>509.00 (-) 1.12e5



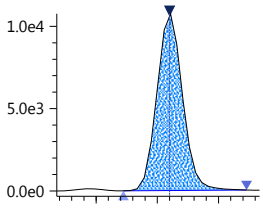
8_2-FTS-13C_IS
Conc 5.0000
RT 4.956 Area 342409

ISTD 528.80>509.00 (-) 1.12e5

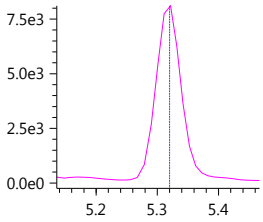


10_2-FtS_1
Conc 1.0537
RT 5.320 Area 31228
R#1 73.95 (0.00)

Q 627.00>606.95 (-) 1.08e4

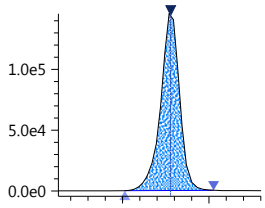


R1 627.00>81.25 (-) 8.11e3

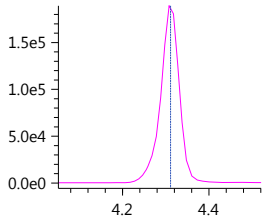


HPFO_DA
Conc 0.9648
RT 4.312 Area 444638
R#1 129.68 (0.00)

Q 329.00>169.00 (-) 1.46e5

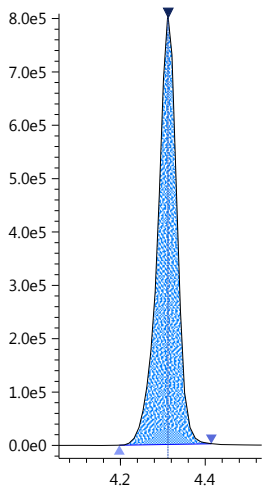


R1 329.00>285.10 (-) 1.89e5



HFPO_DA-13C
Conc 4.9759
RT 4.313 Area 2554063

Q 332.00>286.80 (-) 8.09e5



Insight Report

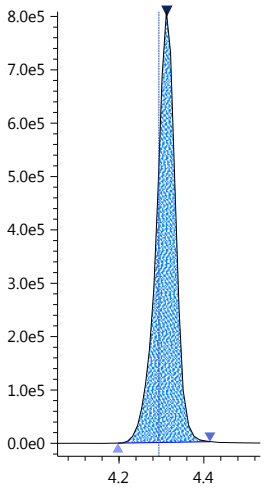
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HFPO_DA-13C_IS

Conc 5.0000

RT 4.313 Area 2554063

ISTD 332.00>286.80 (-) 8.09e5



ADONA

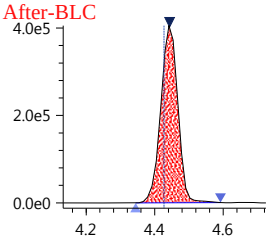
Conc 0.9874

RT 4.443 Area 1401303

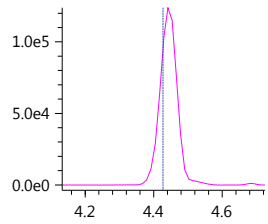
R#1 30.52 (0.00)

Q 377.00>251.00 (-) 4.06e5

After-BLC



R1 377.00>84.95 (-) 1.24e5



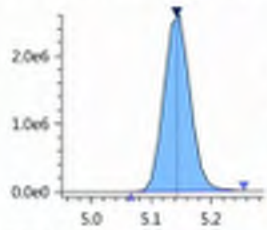
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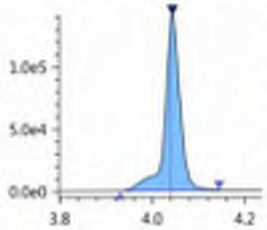
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Sample ID: 1.0 PPB ICV
Date acquired: 9/17/2019 5:16:54 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_014.lcd
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

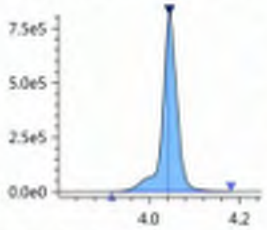
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RT 5.143 Area 7987743
ISTD 570.00>525.00 (-) 2.61e6



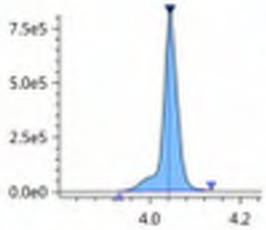
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Q 299.00>80.00 (-) 1.42e5



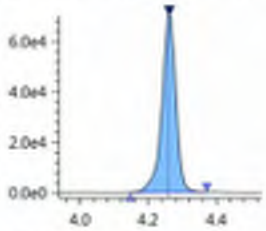
PFBS-13C
Conc 4.9031
RT 4.045 Area 1820352
Q 301.80>80.00 (-) 8.13e5



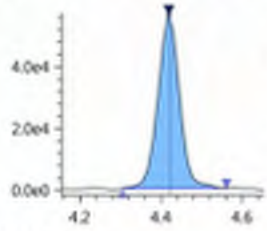
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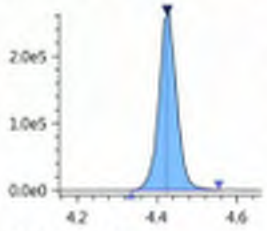
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Conc 1.0122
RT 4.262 Area 202848
Q 349.00>99.00 (-) 7.03e4



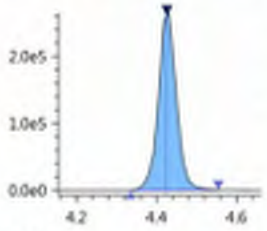
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Q 399.00>80.00 (-) 5.74e4



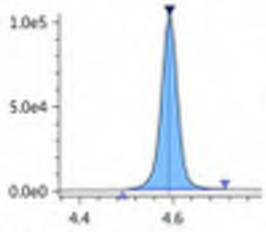
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Q 402.70>84.05 (-) 2.65e5



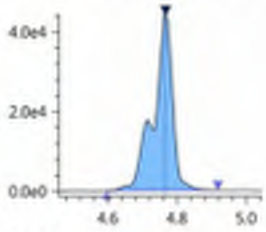
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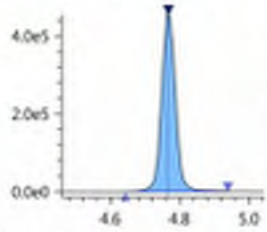
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RT 4.593 Area 261375
Q 449.00>80.15 (-) 1.05e5



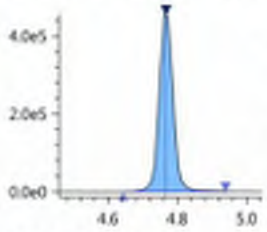
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Conc 0.9866
RT 4.767 Area 171630
Q 499.00>80.00 (-) 4.45e4



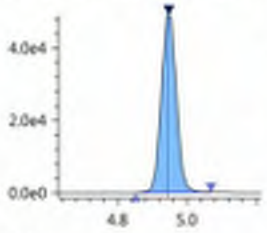
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Conc 4.8357
RT 4.767 Area 1295116
Q 502.80>80.05 (-) 4.55e5



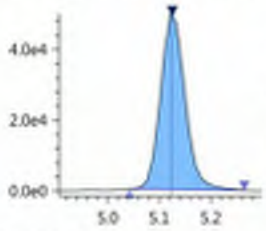
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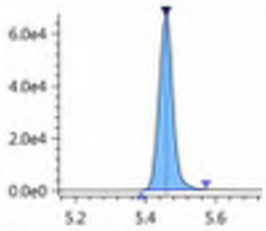
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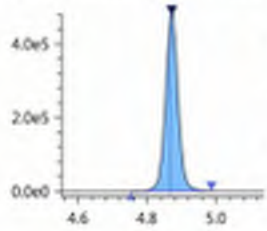
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Q 599.00>79.90 (-) 5.01e4



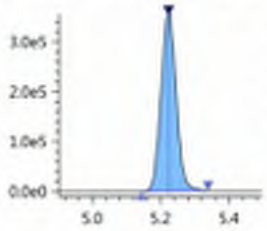
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Q 699.00>79.95 (-) 6.77e4



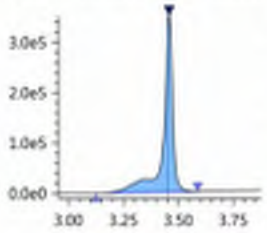
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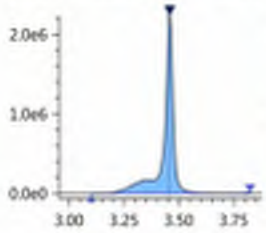
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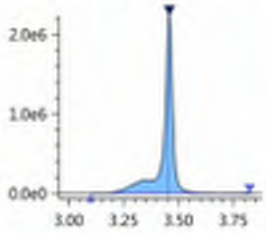
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Conc 1.0368
RT 3.458 Area 1045111
Q 213.00>169.10 (-) 3.52e5



PFBA-13C
Conc 4.5829
RT 3.458 Area 6703741
Q 216.90>172.15 (-) 2.23e6



PFBA-13C_IS
Conc 5.0000
RT 3.458 Area 6703741
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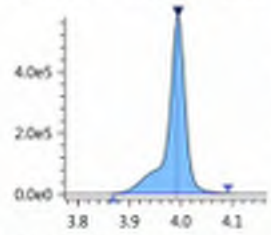


Manual Integration - Before

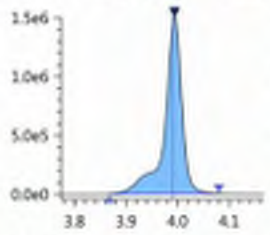
415 of 820

Insight Report

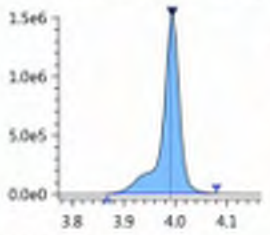
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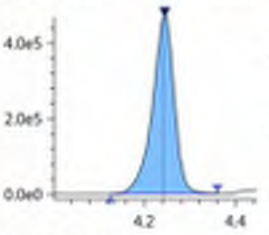
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RT 3.994 Area 3470769
Q 267.90>223.00 (-) 1.51e6



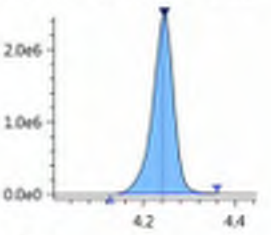
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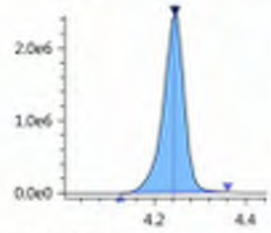
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Conc 0.9451
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Q 313.00>269.00 (-) 4.69e5



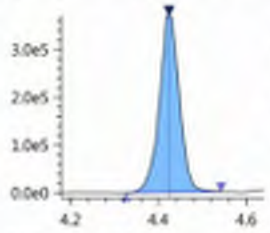
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Q 314.90>270.10 (-) 2.45e6



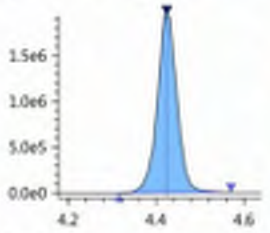
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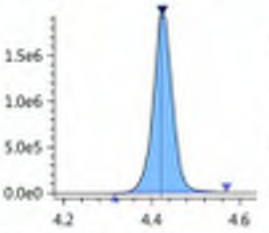
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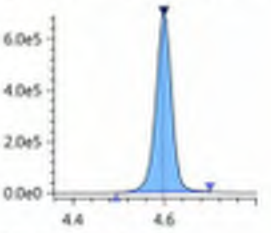
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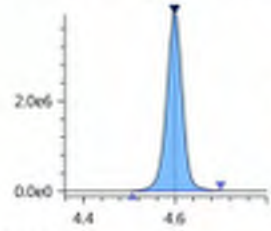
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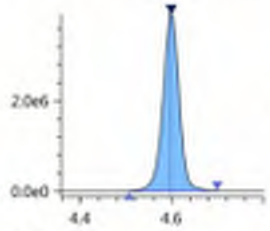
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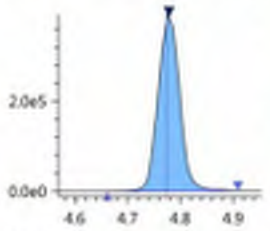
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Q 416.80>372.05 (-) 3.92e6



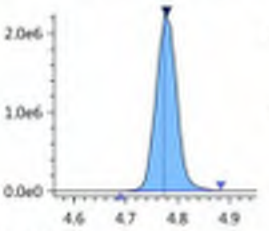
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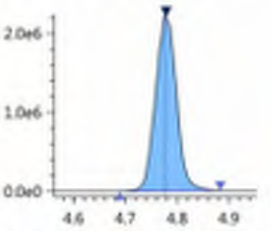
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Q 463.00>418.90 (-) 3.94e5



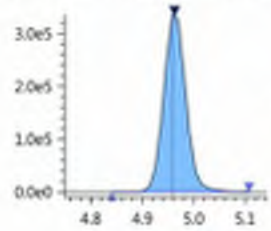
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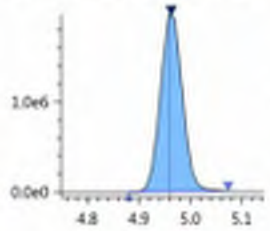
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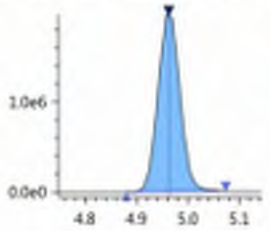
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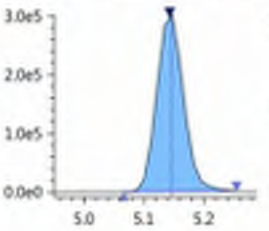
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Q 514.80>469.95 (-) 1.97e6



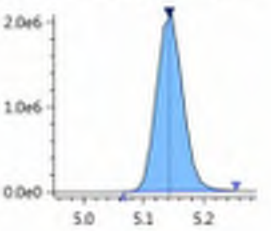
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Conc 5.0000
RT 4.963 Area 5862384
ISTD 514.80>469.95 (-) 1.97e6



PFUnA
Conc 1.0272
RT 5.143 Area 944448
Q 563.00>518.90 (-) 3.02e5



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Q 564.80>519.95 (-) 2.09e6

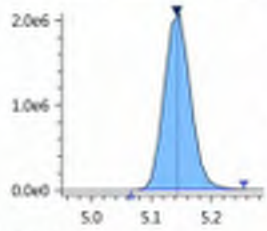


Manual Integration - Before

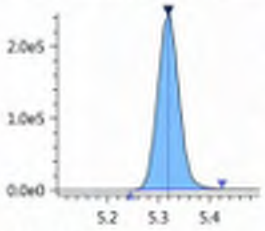
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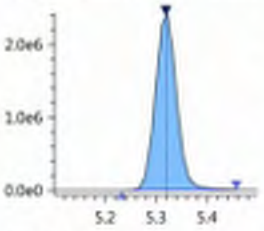
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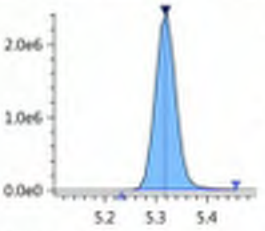
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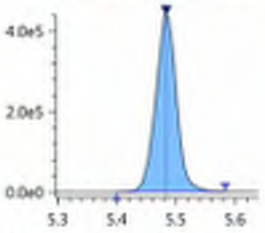
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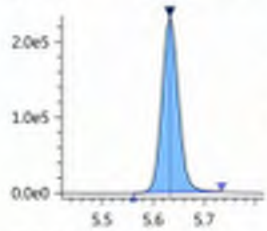
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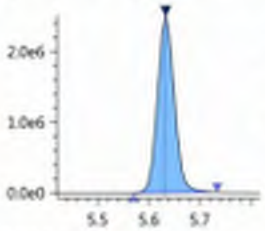
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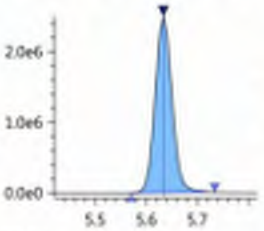
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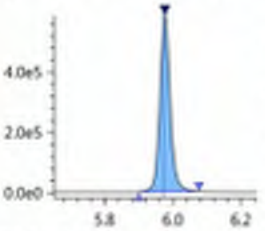
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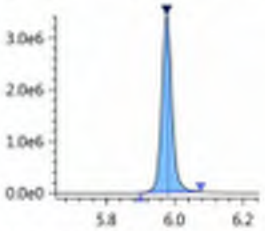
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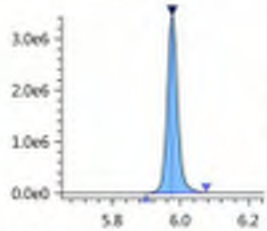
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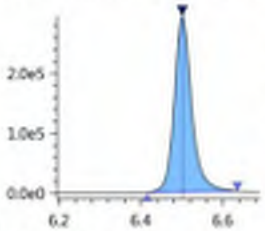
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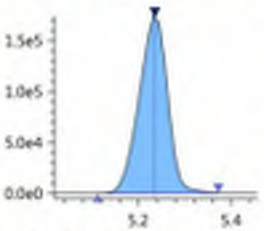
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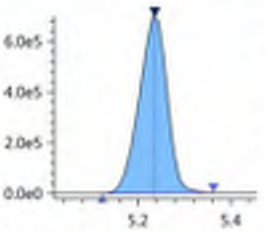
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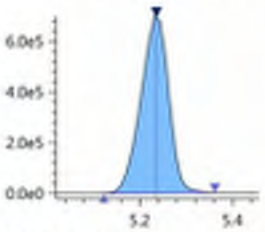
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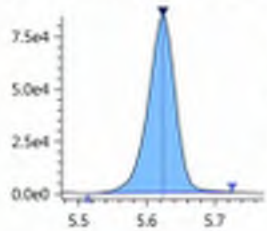
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Q 506.00>78.05 (-) 6.99e5



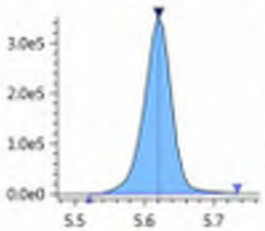
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ISTD 506.00>78.05 (-) 6.99e5



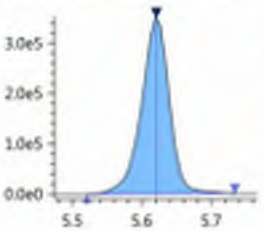
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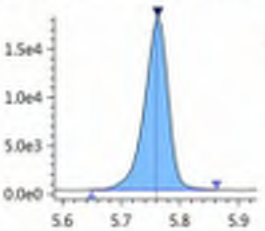
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Q 514.90>168.90 (-) 3.53e5



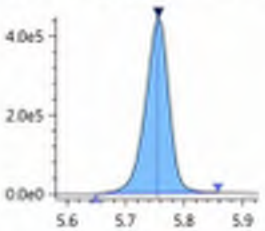
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Conc 5.0000
RT 5.621 Area 970876
ISTD 514.90>168.90 (-) 3.53e5



N-EtFOSA
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RT 5.762 Area 50251
Q 526.90>169.10 (-) 1.84e4



N-EtFOSA-d9
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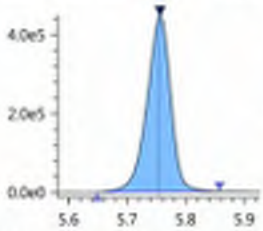


Manual Integration - Before

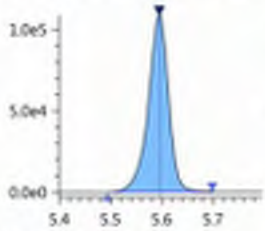
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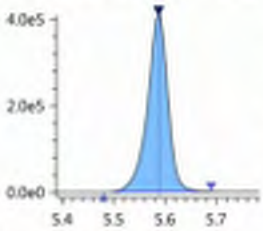
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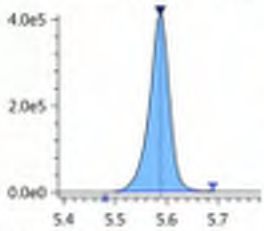
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RT 5.595 Area 300764
Q 616.00>59.00 (-) 1.09e5



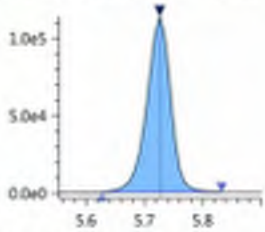
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Q 622.70>59.10 (-) 4.10e5



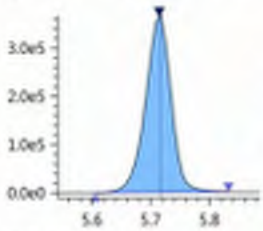
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ISTD 622.70>59.10 (-) 4.10e5



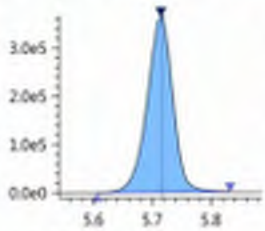
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Q 630.00>58.90 (-) 1.14e5



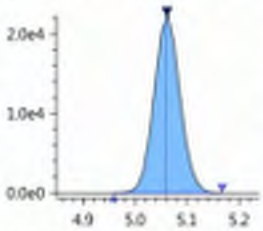
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Q 638.70>59.10 (-) 3.67e5



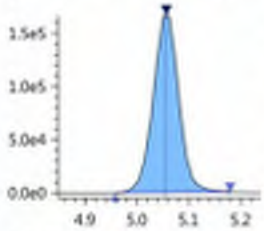
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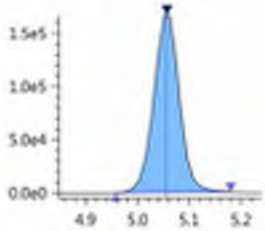
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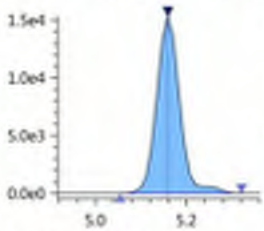
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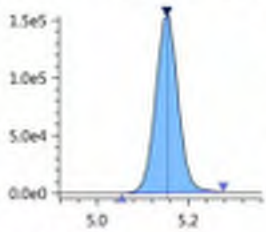
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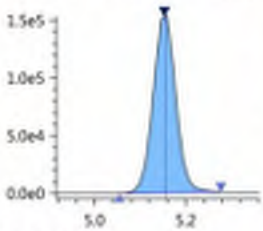
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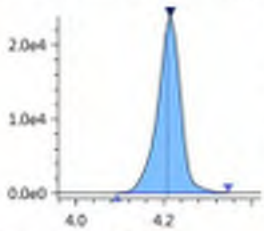
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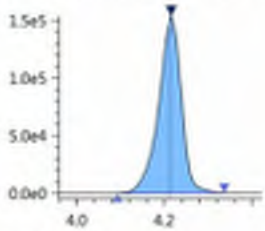
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ISTD 588.80>419.00 (-) 1.54e5



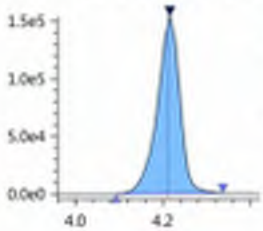
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Q 327.00>307.05 (-) 2.39e4



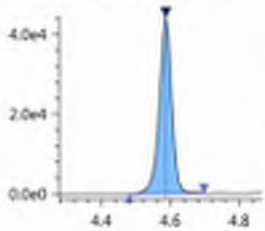
4_2-FTS-13C
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RT 4.216 Area 549848
Q 328.80>309.05 (-) 1.54e5



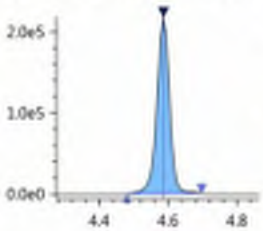
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ISTD 328.80>309.05 (-) 1.54e5



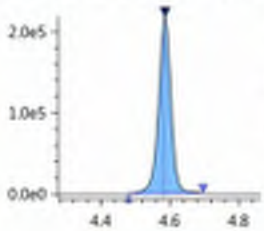
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Q 427.00>407.00 (-) 4.44e4



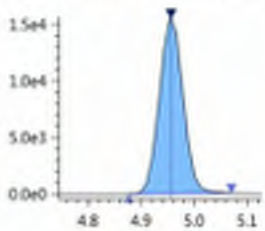
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RT 4.586 Area 546684
Q 428.90>409.00 (-) 2.19e5



6_2-FTS-13C_IS
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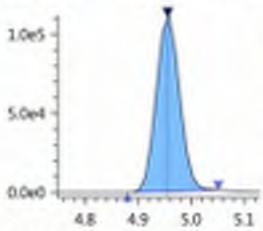
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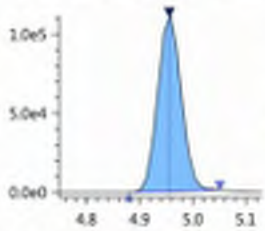
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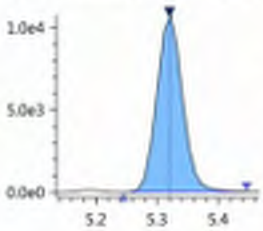
8_2-FTS-13C
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Q 528.80>509.00 (-) 1.12e5



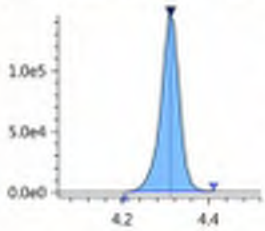
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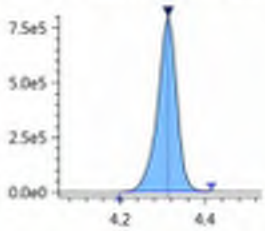
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Q 627.00>606.95 (-) 1.08e4



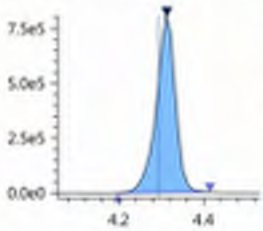
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RT 4.312 Area 444638
Q 329.00>169.00 (-) 1.46e5



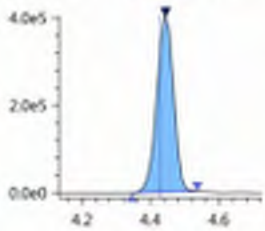
HFPO_DA-13C
Conc 4.4010
RT 4.313 Area 2554063
Q 332.00>286.80 (-) 8.09e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.313 Area 2554063
ISTD 332.00>286.80 (-) 8.09e5



ADONA
Conc 0.9756
RT 4.443 Area 1374303
Q 377.00>251.00 (-) 4.06e5



Insight Report

Printed at 9/18/2019 10:54:29 AM

Method File: J:\LCMS06\Data\190917_curve\190917_curve.lcm
Project File: J:\LCMS06\Data\190917_curve\190917_curve.damlp
Flags File: J:\LCMS06\Data\190917_curve\190917_curve.damlp

190917_112

Sample ID: T-PFOA
Date acquired: 9/18/2019 10:28:28 AM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190917_curve\190917_112.lcd
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.123	2408	2408	1	5.0000	ng/mL	----
PFBS_1	Auto	4.050	3286	1157	2	13.6246	ng/mL	----
PFBS-13C	NP	----	----	2408	1	----	ng/mL	----
PFBS-13C_IS	Auto	3.975	1157	1157	2	5.0000	ng/mL	----
PFPeS	Auto	4.390	1373	1157	2	10.6891	ng/mL	----
PFHxS_1	Auto	4.513	2887	----	3	0.0000	ng/mL	----
PFHxS-18O	NP	----	----	2408	1	----	ng/mL	----
PFHxS-18O_IS	NP	----	----	----	3	----	ng/mL	----
PFHpS_1	Auto	4.508	893	----	3	0.0000	ng/mL	----
PFOS_1	Auto	4.551	1095	1872	4	5.5862	ng/mL	----
PFOS-13C	Auto	4.781	1872	2408	1	24.5575	ng/mL	----
PFOS-13C_IS	Auto	4.781	1872	1872	4	5.0000	ng/mL	----
PFNS	Auto	5.006	275	1872	4	1.3703	ng/mL	----
PFDS_1	Auto	5.152	2028	1872	4	7.8874	ng/mL	----
PFDOS	Auto	5.438	350	1872	4	1.0561	ng/mL	----
9Cl-PF3ONS	Auto	4.864	897	341	26	5.1493	ng/mL	----
11Cl-PF3OUdS	Auto	5.190	442	341	26	4.0748	ng/mL	----
PFBA	Auto	3.616	2881	859	5	20.6156	ng/mL	----
PFBA-13C	Auto	3.059	859	2408	1	2.9448	ng/mL	----
PFBA-13C_IS	Auto	3.059	859	859	5	5.0000	ng/mL	----
PFPeA	Auto	3.924	8069	513	6	27.2338	ng/mL	----
PFPeA-13C	Auto	4.061	513	2408	1	2.3271	ng/mL	----
PFPeA-13C_IS	Auto	4.061	513	513	6	5.0000	ng/mL	----
PFHxA	Auto	4.217	9343	835	7	53.0572	ng/mL	----
PFHxA-13C	Auto	4.308	835	2408	1	1.5707	ng/mL	----
PFHxA-13C_IS	Auto	4.308	835	835	7	5.0000	ng/mL	----
PFHpA	Auto	4.406	15877	693	8	108.2713	ng/mL	----
PFHpA-13C	Auto	4.407	693	2408	1	1.9683	ng/mL	----
PFHpA-13C_IS	Auto	4.407	693	693	8	5.0000	ng/mL	----
PFOA	Auto	4.573	1270925	391	9	17813.1078	ng/mL	----
PFOA-13C	Auto	4.588	391	2408	1	0.6923	ng/mL	----
PFOA-13C_IS	Auto	4.588	391	391	9	5.0000	ng/mL	----
PFNA	Auto	4.718	4420	161	10	150.5556	ng/mL	----
PFNA-13C	Auto	4.761	161	2408	1	0.3985	ng/mL	----
PFNA-13C_IS	Auto	4.761	161	161	10	5.0000	ng/mL	----
PFDA	Auto	4.909	2673	----	11	0.0000	ng/mL	----
PFDA-13C	NP	----	----	2408	1	----	ng/mL	----
PFDA-13C_IS	NP	----	----	----	11	----	ng/mL	----
PFUnA	Auto	5.107	1086	198	12	38.1919	ng/mL	----
PFUnA-13C	Auto	5.111	198	2408	1	0.5128	ng/mL	----
PFUnA-13C_IS	Auto	5.111	198	198	12	5.0000	ng/mL	----
PFDoA	Auto	5.166	1452	357	13	38.9905	ng/mL	----
PFDoA-13C	Auto	5.321	357	2408	1	0.7742	ng/mL	----
PFDoA-13C_IS	Auto	5.321	357	357	13	5.0000	ng/mL	----
PFTrDA	Auto	5.518	1468	986	14	7.4377	ng/mL	----
PFTeDA	Auto	5.548	877	986	14	6.0782	ng/mL	----
PFTeDA-13C	Auto	5.613	986	2408	1	2.6915	ng/mL	----
PFTeDA-13C_IS	Auto	5.613	986	986	14	5.0000	ng/mL	----
PFHxDA	Auto	5.894	2903	947	15	14.9592	ng/mL	----
13C-PFHxDA	Auto	5.950	947	2408	1	2.0273	ng/mL	----
13C-PFHxDA_IS	Auto	5.950	947	947	15	5.0000	ng/mL	----
PFODA	Auto	6.454	1281	947	15	11.5905	ng/mL	----
FOSA	Auto	5.151	562	618	16	3.6374	ng/mL	----
FOSA-13C	Auto	5.356	618	2408	1	3.0738	ng/mL	----
FOSA-13C_IS	Auto	5.356	618	618	16	5.0000	ng/mL	----
N-MeFOSA	Auto	5.619	700	3337	17	0.7376	ng/mL	----
N-MeFOSA-d3	Auto	5.618	3337	2408	1	54.9075	ng/mL	----
N-MeFOSA-d3_IS	Auto	5.618	3337	3337	17	5.0000	ng/mL	----
N-EtFOSA	Auto	5.731	519	1490	18	9.0658	ng/mL	----
N-EtFOSA-d9	Auto	5.754	1490	2408	1	18.3522	ng/mL	----
N-EtFOSA-d9_IS	Auto	5.754	1490	1490	18	5.0000	ng/mL	----
N-MeFOSE	Auto	5.489	681	543	19	4.9522	ng/mL	----
N-MeFOSE-d7	Auto	5.570	543	2408	1	7.3193	ng/mL	----
N-MeFOSE-d7_IS	Auto	5.570	543	543	19	5.0000	ng/mL	----

Insight Report

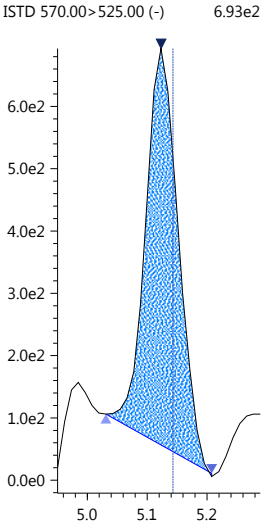
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(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-EtFOSE	Auto	5.702	1728	956	20	6.7293	ng/mL	----
N-EtFOSE-d9	Auto	5.774	956	2408	1	12.7032	ng/mL	----
N-EtFOSE-d9_IS	Auto	5.774	956	956	20	5.0000	ng/mL	----
N-MeFOSAA	NP	----	----	202	21	----	ng/mL	----
N-MeFOSAA-d3	Auto	5.143	202	2408	1	5.3871	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.143	202	202	21	5.0000	ng/mL	----
N-EtFOSAA	NP	----	----	823	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.152	823	2408	1	24.1773	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.152	823	823	22	5.0000	ng/mL	----
4_2-FTS_1	Auto	4.032	432	309	23	8.5264	ng/mL	----
4_2-FTS-13C	Auto	4.031	309	2408	1	6.7288	ng/mL	----
4_2-FTS-13C_IS	Auto	4.031	309	309	23	5.0000	ng/mL	----
6_2-FTS_1	Auto	4.559	2441	----	24	0.0000	ng/mL	----
6_2-FTS-13C	NP	----	----	2408	1	----	ng/mL	----
6_2-FTS-13C_IS	NP	----	----	----	24	----	ng/mL	----
8_2-FTS_1	NP	----	----	----	25	----	ng/mL	----
8_2-FTS-13C	NP	----	----	2408	1	----	ng/mL	----
8_2-FTS-13C_IS	NP	----	----	----	25	----	ng/mL	----
10_2-FtS_1	NP	----	----	----	25	----	ng/mL	----
HPFO_DA	Auto	4.298	502	341	26	9.0843	ng/mL	----
HFPO_DA-13C	Auto	4.281	341	2408	1	1.9371	ng/mL	----
HFPO_DA-13C_IS	Auto	4.281	341	341	26	5.0000	ng/mL	----
ADONA	Auto	4.680	736	341	26	3.9831	ng/mL	----

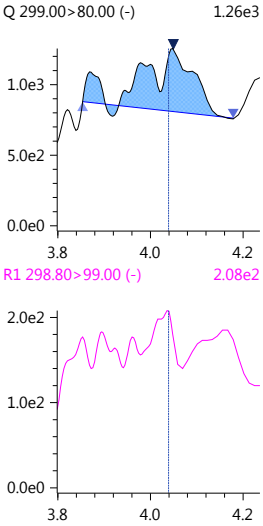
13C7-PFUnDA_IS

Conc 5.0000
RT 5.123 Area 2408



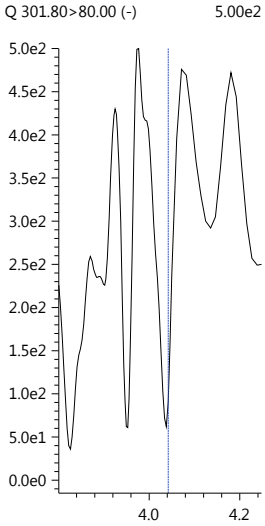
PFBS_1

Conc 13.6246
RT 4.050 Area 3286
R#1 0.00 (0.00)



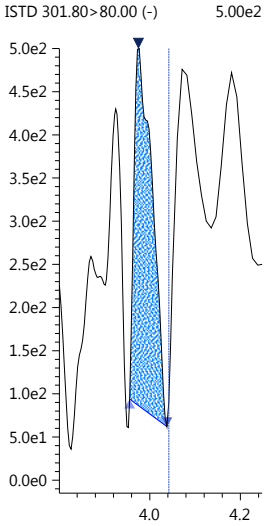
PFBS-13C

Conc ----
RT ---- Area ----



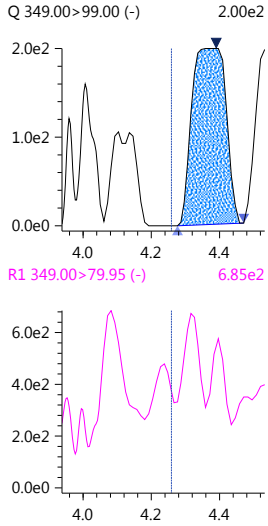
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Conc 5.0000
RT 3.975 Area 1157



PFPeS

Conc 10.6891
RT 4.390 Area 1373
R#1 78.50 (0.00)

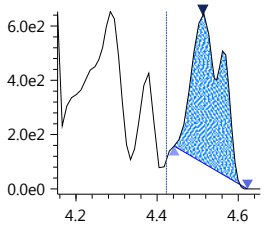


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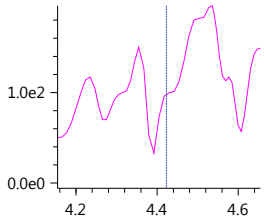
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PFHxS_1
Conc 0.0000
RT 4.513 Area 2887
R#1 15.64 (0.00)

Q 399.00>80.00 (-) 6.53e2

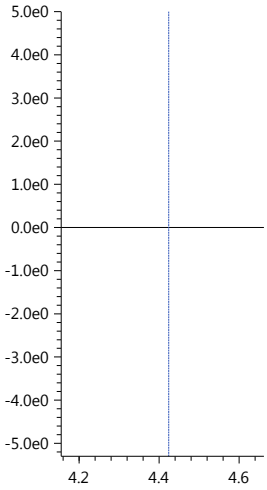


R1 399.00>99.00 (-) 1.96e2



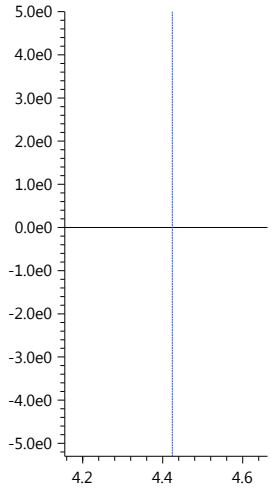
PFHxS-18O
Conc ----
RT ---- Area ----

Q 402.70>84.05 (-) 0.00e0



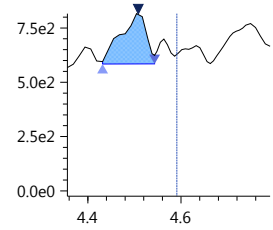
PFHxS-18O_IS
Conc ----
RT ---- Area ----

ISTD 402.70>84.05 (-) 0.00e0

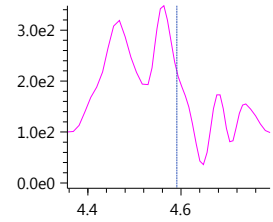


PFHpS_1
Conc 0.0000
RT 4.508 Area 893
R#1 0.00 (0.00)

Q 449.00>80.15 (-) 8.16e2

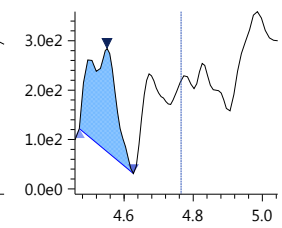


R1 449.00>99.20 (-) 3.48e2

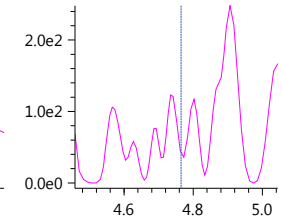


PFOS_1
Conc 5.5862
RT 4.551 Area 1095
R#1 18.34 (0.00)

Q 499.00>80.00 (-) 3.59e2

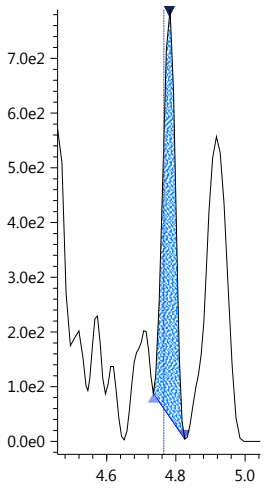


R1 499.00>99.00 (-) 2.48e2



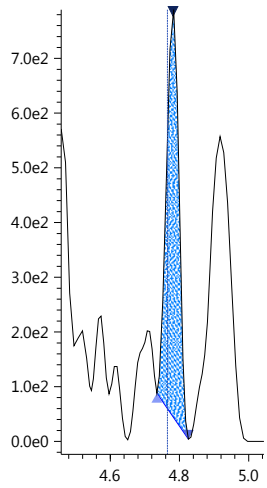
PFOS-13C
Conc 24.5575
RT 4.781 Area 1872

Q 502.80>80.05 (-) 7.89e2



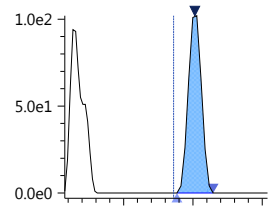
PFOS-13C_IS
Conc 5.0000
RT 4.781 Area 1872

ISTD 502.80>80.05 (-) 7.89e2

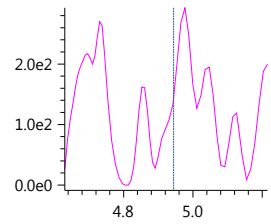


PFNS
Conc 1.3703
RT 5.006 Area 275
R#1 0.00 (0.00)

Q 549.00>99.00 (-) 1.02e2

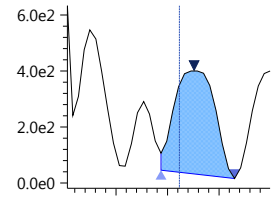


R1 549.00>79.95 (-) 2.93e2

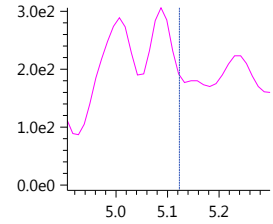


PFDS_1
Conc 7.8874
RT 5.152 Area 2028
R#1 0.00 (0.00)

Q 599.00>79.90 (-) 6.33e2

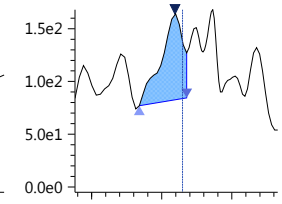


R1 599.00>99.10 (-) 3.06e2

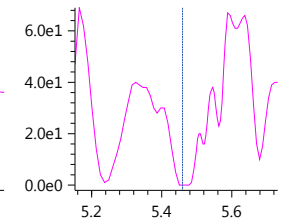


PFDOS
Conc 1.0561
RT 5.438 Area 350
R#1 0.00 (0.00)

Q 699.00>79.95 (-) 1.68e2



R1 699.00>99.05 (-) 6.90e1



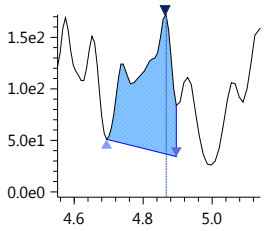
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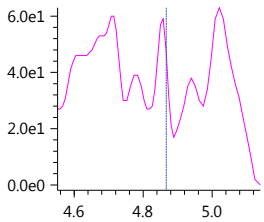
9Cl-PF3ONS

Conc 5.1493
RT 4.864 Area 897
R#1 36.56 (0.00)

Q 531.00>351.00 (-) 1.72e2



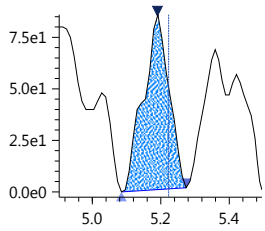
R1 531.00>98.90 (-) 6.30e1



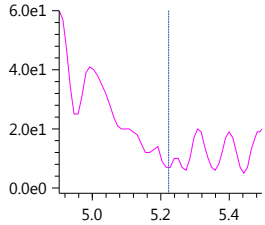
11Cl-PF3OUdS

Conc 4.0748
RT 5.190 Area 442
R#1 0.00 (0.00)

Q 631.00>451.05 (-) 8.60e1



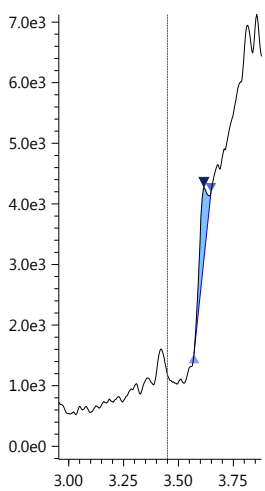
R1 631.00>98.90 (-) 6.00e1



PFBA

Conc 20.6156
RT 3.616 Area 2881

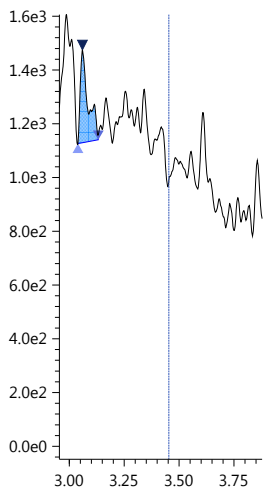
Q 213.00>169.10 (-) 7.12e3



PFBA-13C

Conc 2.9448
RT 3.059 Area 859

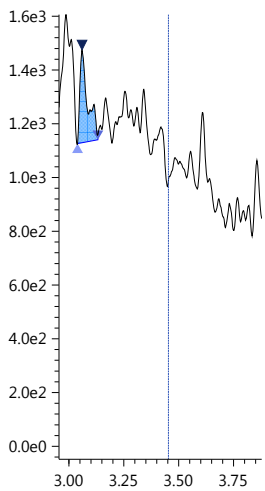
Q 216.90>172.15 (-) 1.61e3



PFBA-13C_IS

Conc 5.0000
RT 3.059 Area 859

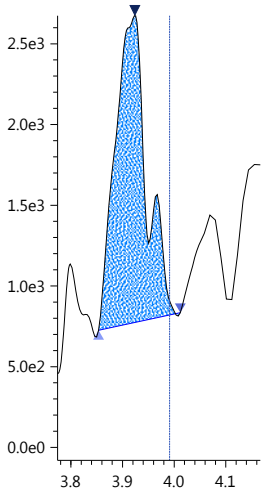
ISTD 216.90>172.15 (-) 1.61e3



PFPeA

Conc 27.2338
RT 3.924 Area 8069

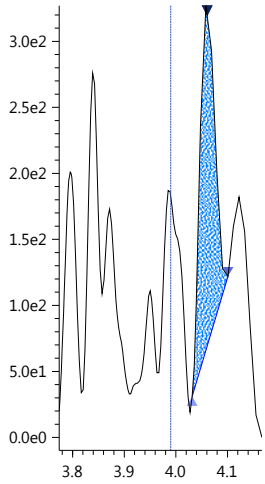
Q 263.05>219.10 (-) 2.67e3



PFPeA-13C

Conc 2.3271
RT 4.061 Area 513

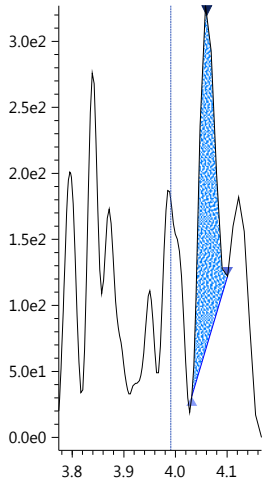
Q 267.90>223.00 (-) 3.27e2



PFPeA-13C_IS

Conc 5.0000
RT 4.061 Area 513

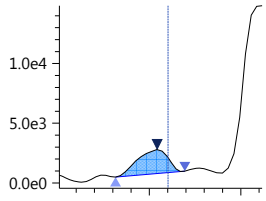
ISTD 267.90>223.00 (-) 3.27e2



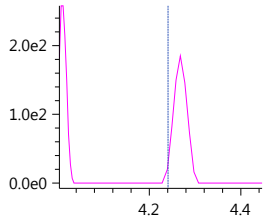
PFHxA

Conc 53.0572
RT 4.217 Area 9343
R#1 0.00 (0.00)

Q 313.00>269.00 (-) 1.48e4



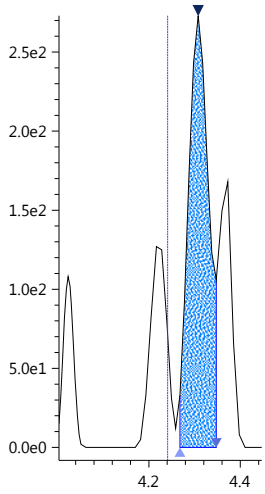
R1 313.00>119.10 (-) 2.58e2



PFHxA-13C

Conc 1.5707
RT 4.308 Area 835

Q 314.90>270.10 (-) 2.73e2

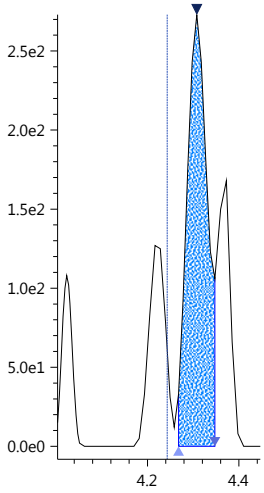


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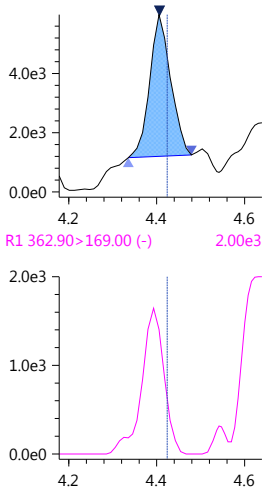
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Conc 5.0000
RT 4.308 Area 835

ISTD 314.90>270.10 (-) 2.73e2



PFHpA
Conc 108.2713
RT 4.406 Area 15877
R#1 28.63 (0.00)

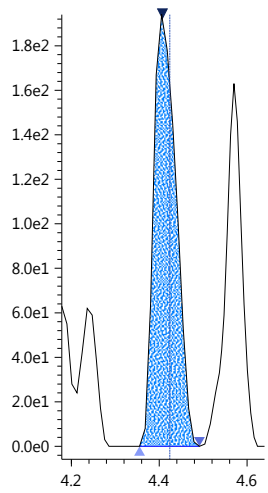
Q 362.90>319.00 (-) 5.99e3



R1 362.90>169.00 (-) 2.00e3

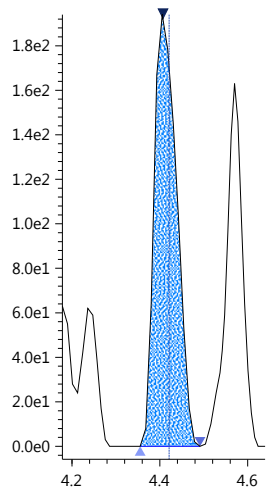
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Conc 1.9683
RT 4.407 Area 693

Q 366.90>322.10 (-) 1.94e2



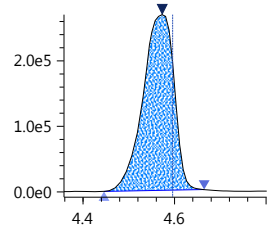
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Conc 5.0000
RT 4.407 Area 693

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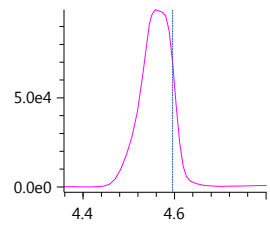


PFOA
Conc 17813.1078
RT 4.573 Area 1270925
R#1 36.29 (0.00)

Q 413.00>369.00 (-) 2.71e5

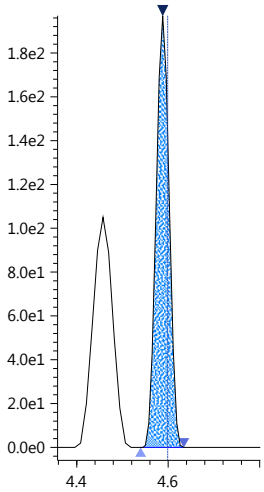


R1 413.00>169.10 (-) 9.95e4



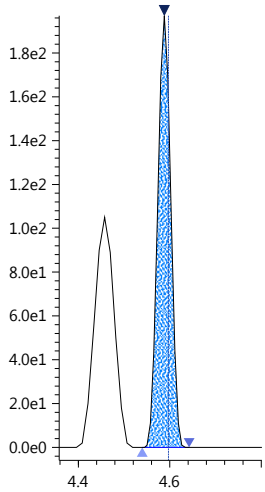
PFOA-13C
Conc 0.6923
RT 4.588 Area 391

Q 416.80>372.05 (-) 1.97e2



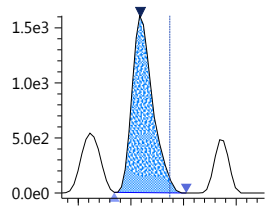
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Conc 5.0000
RT 4.588 Area 391

ISTD 416.80>372.05 (-) 1.97e2

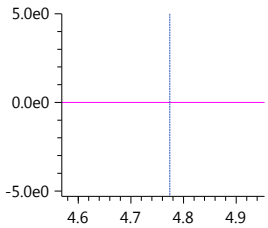


PFNA
Conc 150.5556
RT 4.718 Area 4420
R#1 0.00 (0.00)

Q 463.00>418.90 (-) 1.61e3

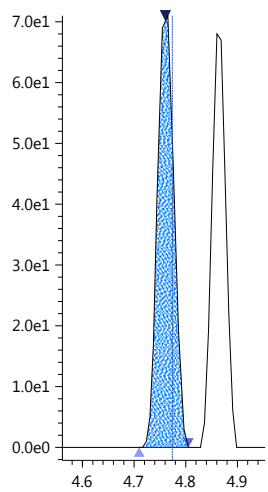


R1 463.00>219.00 (-) 0.00e0



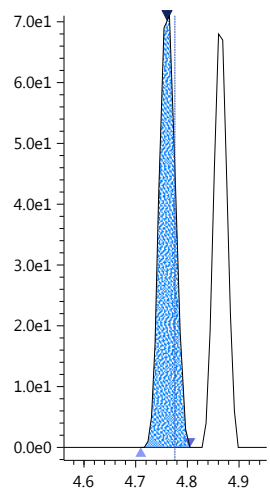
PFNA-13C
Conc 0.3985
RT 4.761 Area 161

Q 467.80>423.00 (-) 7.10e1



PFNA-13C_IS
Conc 5.0000
RT 4.761 Area 161

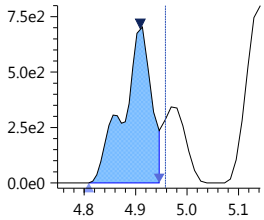
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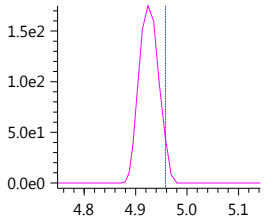
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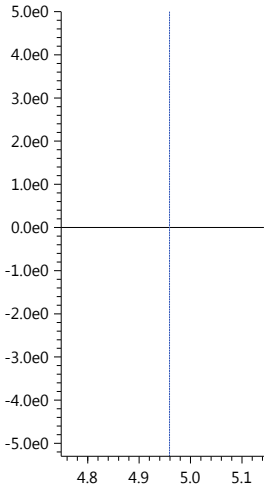
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Conc 0.0000
RT 4.909 Area 2673
R#1 14.82 (0.00)
Q 513.00>468.80 (-) 8.00e2



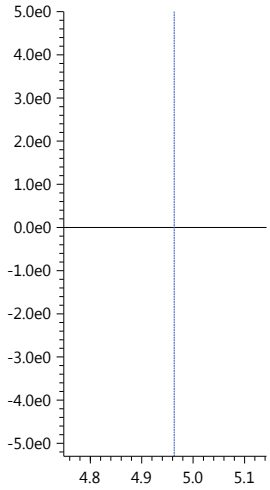
R1 513.00>219.10 (-) 1.75e2



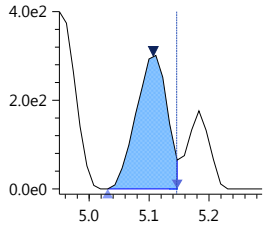
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Conc ----
RT ---- Area ----
Q 514.80>469.95 (-) 0.00e0



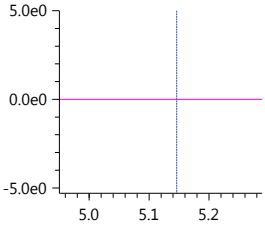
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Conc ----
RT ---- Area ----
ISTD 514.80>469.95 (-) 0.00e0



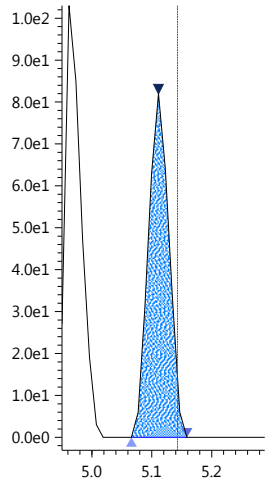
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Conc 38.1919
RT 5.107 Area 1086
R#1 0.00 (0.00)
Q 563.00>518.90 (-) 4.00e2



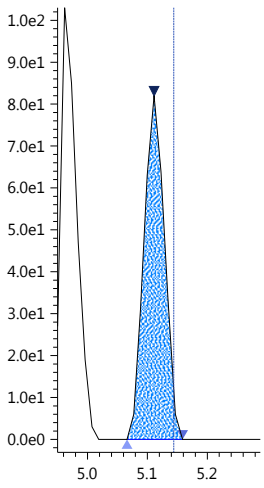
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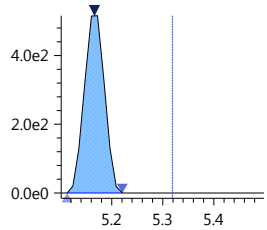
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Conc 0.5128
RT 5.111 Area 198
Q 564.80>519.95 (-) 1.03e2



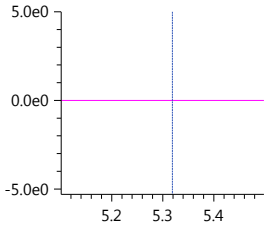
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Conc 5.0000
RT 5.111 Area 198
ISTD 564.80>519.95 (-) 1.03e2



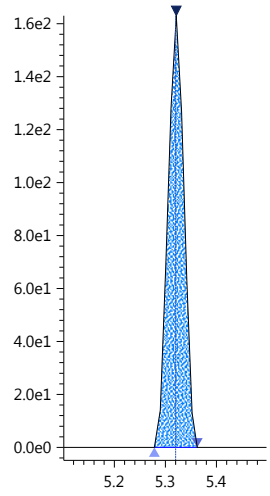
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Conc 38.9905
RT 5.166 Area 1452
R#1 0.00 (0.00)
Q 613.05>569.00 (-) 5.16e2



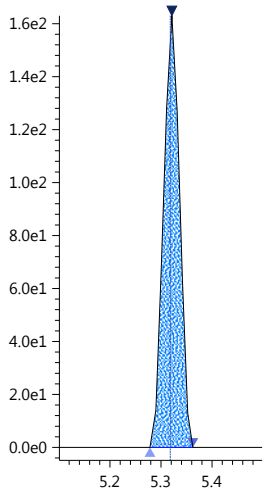
R1 613.05>169.00 (-) 0.00e0



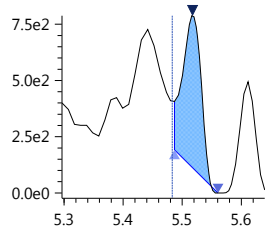
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Conc 0.7742
RT 5.321 Area 357
Q 614.80>569.95 (-) 1.63e2



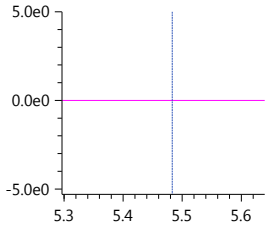
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ISTD 614.80>569.95 (-) 1.63e2



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Conc 7.4377
RT 5.518 Area 1468
R#1 0.00 (0.00)
Q 663.00>618.90 (-) 7.88e2



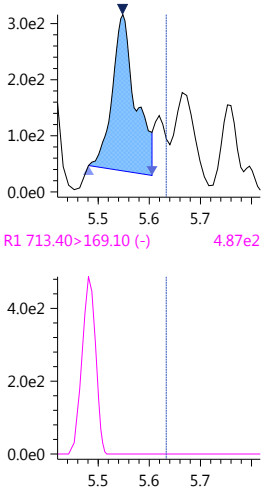
R1 662.90>169.00 (-) 0.00e0



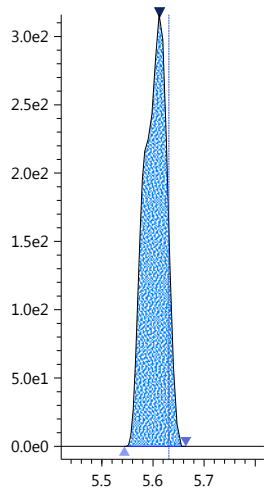
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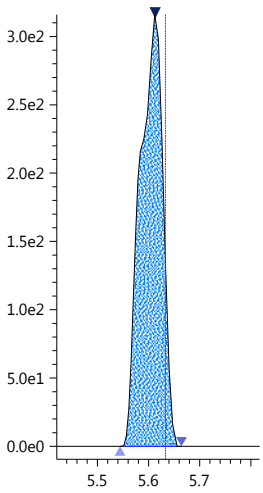
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Conc 6.0782
RT 5.548 Area 877
R#1 0.00 (0.00)



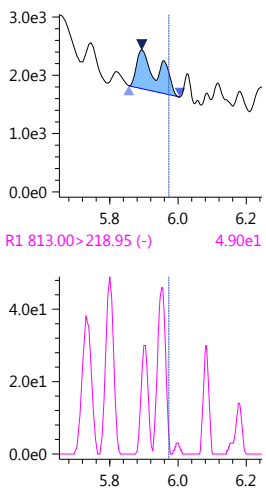
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Conc 2.6915
RT 5.613 Area 986



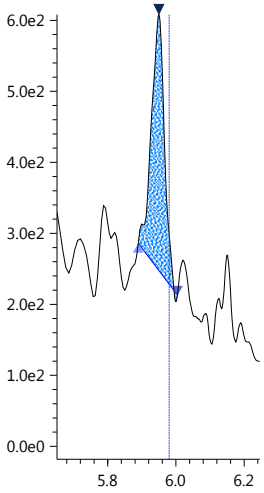
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Conc 5.0000
RT 5.613 Area 986



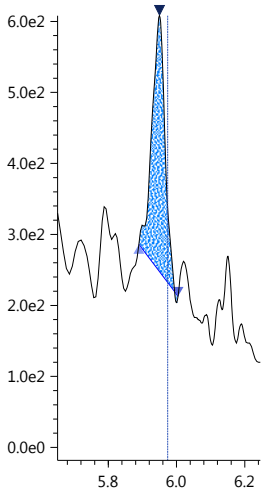
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Conc 14.9592
RT 5.894 Area 2903
R#1 3.93 (0.00)



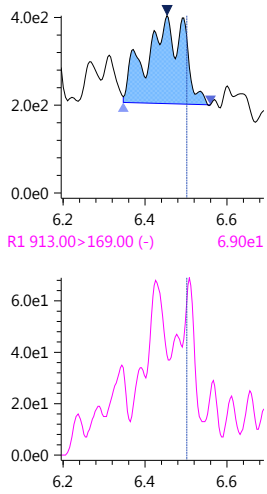
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RT 5.950 Area 947



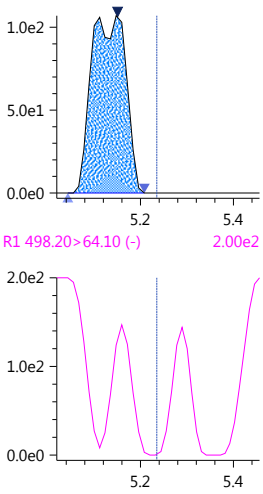
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Conc 5.0000
RT 5.950 Area 947



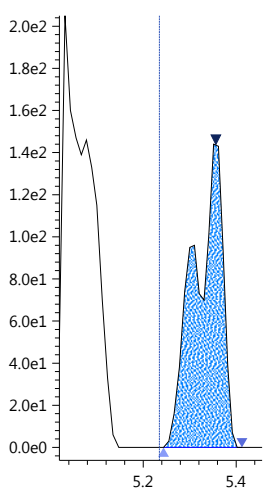
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Conc 11.5905
RT 6.454 Area 1281
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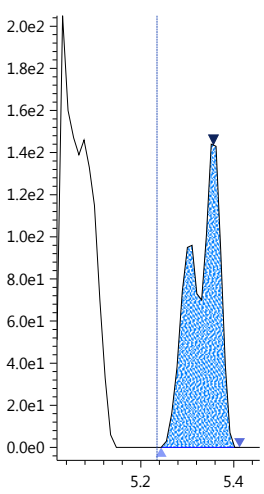
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Conc 3.6374
RT 5.151 Area 562
R#1 37.86 (0.00)



FOSA-13C
Conc 3.0738
RT 5.356 Area 618



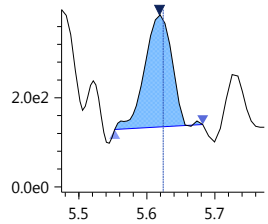
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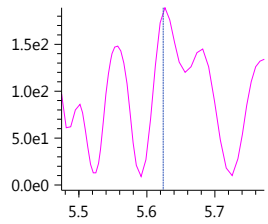
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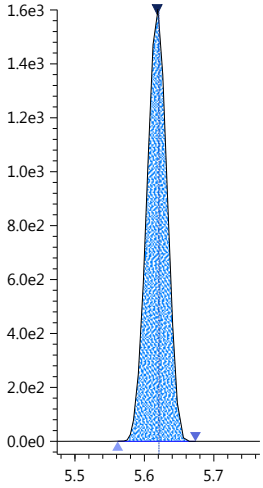
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Conc 0.7376
RT 5.619 Area 700
R#1 13.62 (0.00)
Q 512.00>169.10 (-) 3.98e2



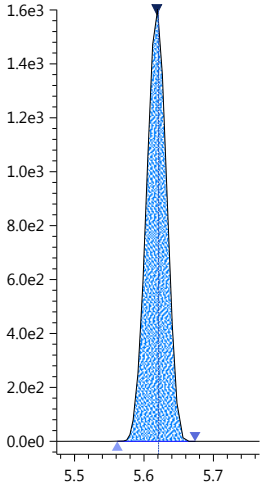
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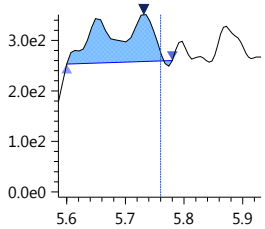
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Conc 54.9075
RT 5.618 Area 3337
Q 514.90>168.90 (-) 1.60e3



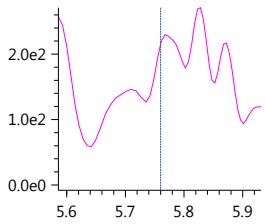
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ISTD 514.90>168.90 (-) 1.60e3



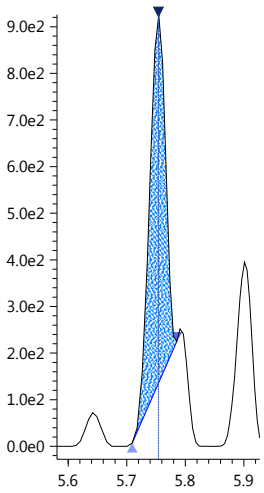
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RT 5.731 Area 519
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Q 526.90>169.10 (-) 3.51e2



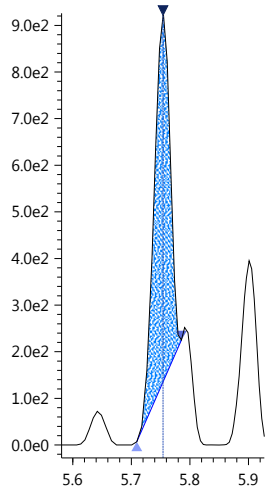
R1 526.90>219.00 (-) 2.71e2



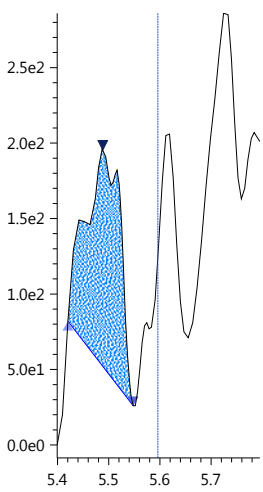
N-EtFOSA-d9
Conc 18.3522
RT 5.754 Area 1490
Q 530.90>169.15 (-) 9.26e2



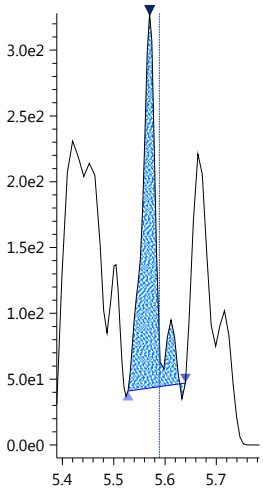
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.754 Area 1490
ISTD 530.90>169.15 (-) 9.26e2



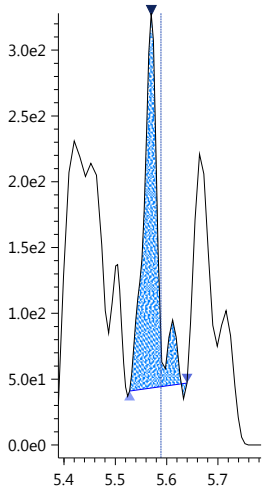
N-MeFOSE
Conc 4.9522
RT 5.489 Area 681
Q 616.00>59.00 (-) 2.86e2



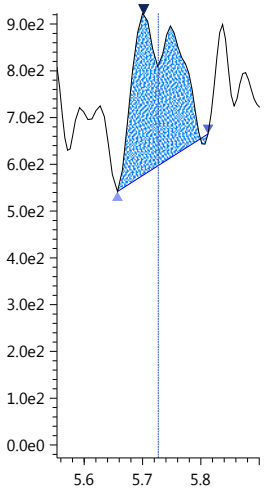
N-MeFOSE-d7
Conc 7.3193
RT 5.570 Area 543
Q 622.70>59.10 (-) 3.28e2



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.570 Area 543
ISTD 622.70>59.10 (-) 3.28e2



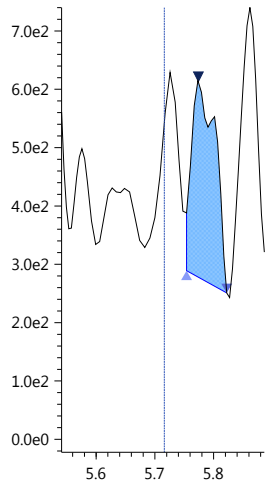
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Conc 6.7293
RT 5.702 Area 1728
Q 630.00>58.90 (-) 9.23e2



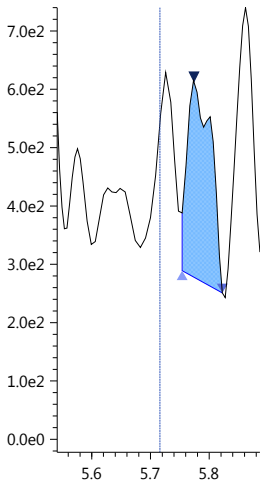
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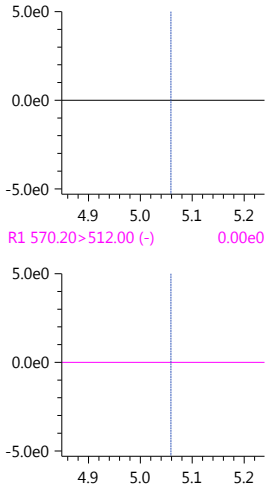
N-EtFOSE-d9
Conc 12.7032
RT 5.774 Area 956
Q 638.70>59.10 (-) 7.40e2



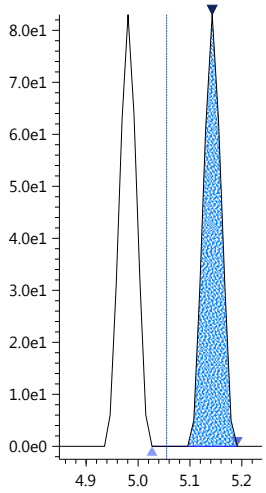
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.774 Area 956
ISTD 638.70>59.10 (-) 7.40e2



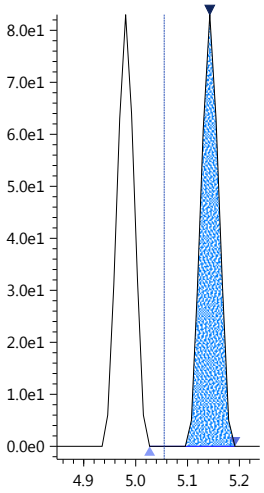
N-MeFOSAA
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 570.20>419.00 (-) 0.00e0



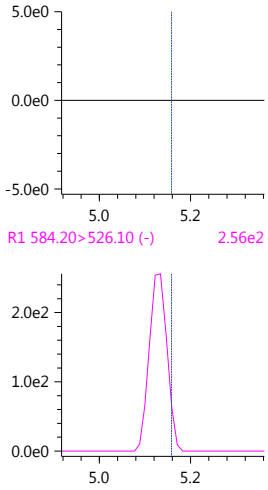
N-MeFOSAA-d3
Conc 5.3871
RT 5.143 Area 202
Q 572.80>419.05 (-) 8.30e1



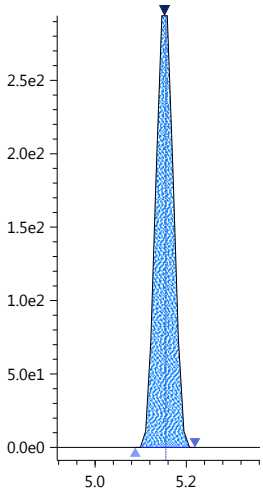
N-MeFOSAA-d3_IS
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RT 5.143 Area 202
ISTD 572.80>419.05 (-) 8.30e1



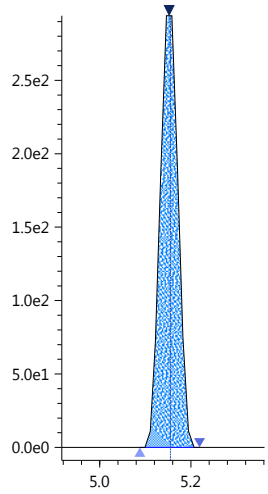
N-EtFOSAA
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 584.20>418.95 (-) 0.00e0



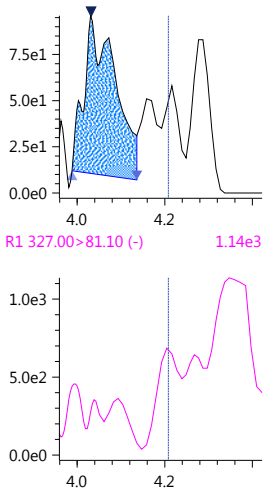
N-EtFOSAA-d5
Conc 24.1773
RT 5.152 Area 823
Q 588.80>419.00 (-) 2.94e2



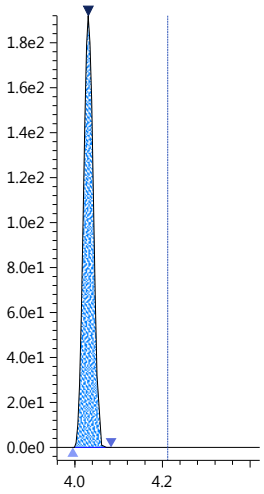
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.152 Area 823
ISTD 588.80>419.00 (-) 2.94e2



4_2-FTS_1
Conc 8.5264
RT 4.032 Area 432
R#1 51.58 (0.00)
Q 327.00>307.05 (-) 9.60e1



4_2-FTS-13C
Conc 6.7288
RT 4.031 Area 309
Q 328.80>309.05 (-) 1.92e2

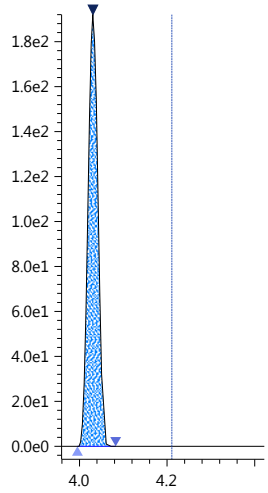


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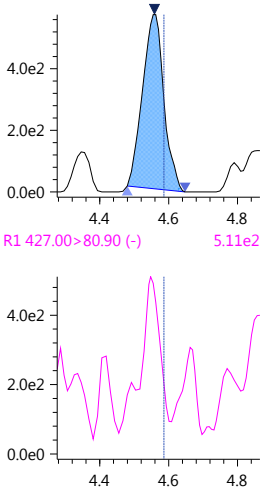
4_2-FTS-13C_IS
Conc 5.0000
RT 4.031 Area 309

ISTD 328.80>309.05 (-) 1.92e2



6_2-FTS_1
Conc 0.0000
RT 4.559 Area 2441
R#1 54.02 (0.00)

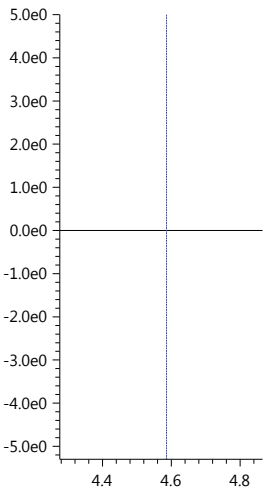
Q 427.00>407.00 (-) 5.76e2



R1 427.00>80.90 (-) 5.11e2

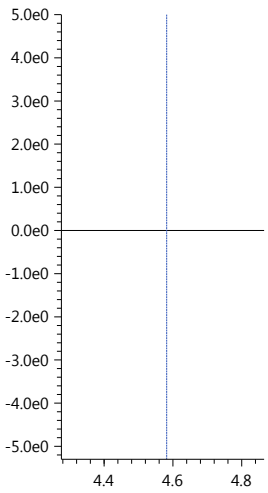
6_2-FTS-13C
Conc ----
RT ---- Area ----

Q 428.90>409.00 (-) 0.00e0



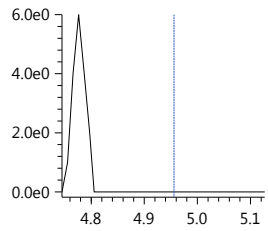
6_2-FTS-13C_IS
Conc ----
RT ---- Area ----

ISTD 428.90>409.00 (-) 0.00e0

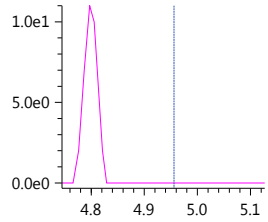


8_2-FTS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 527.10>506.90 (-) 6.00e0

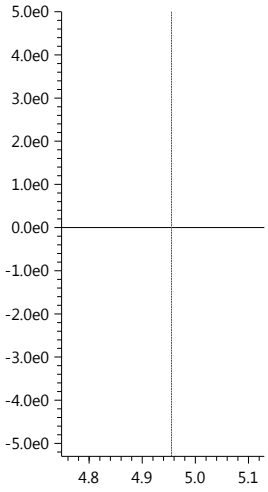


R1 527.20>487.00 (-) 1.10e1



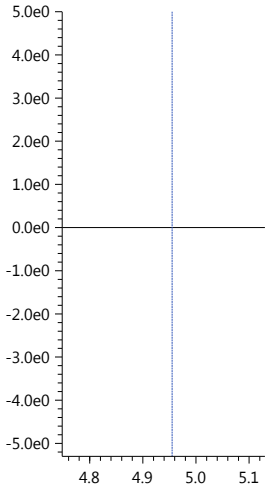
8_2-FTS-13C
Conc ----
RT ---- Area ----

Q 528.80>509.00 (-) 0.00e0



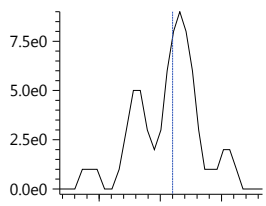
8_2-FTS-13C_IS
Conc ----
RT ---- Area ----

ISTD 528.80>509.00 (-) 0.00e0

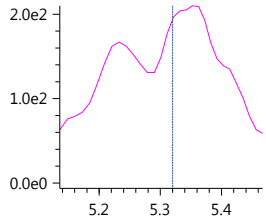


10_2-FtS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 627.00>606.95 (-) 9.00e0

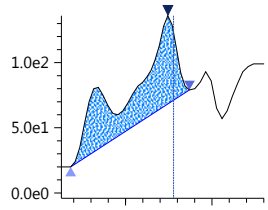


R1 627.00>81.25 (-) 2.10e2

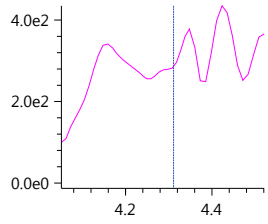


HPFO_DA
Conc 9.0843
RT 4.298 Area 502
R#1 0.00 (0.00)

Q 329.00>169.00 (-) 1.36e2

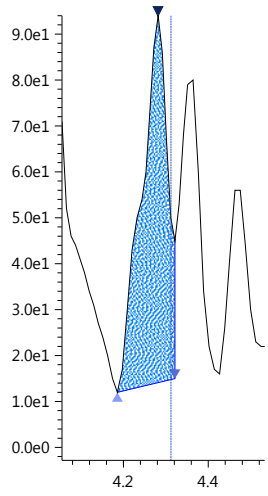


R1 329.00>285.10 (-) 4.35e2



HFPO_DA-13C
Conc 1.9371
RT 4.281 Area 341

Q 332.00>286.80 (-) 9.40e1



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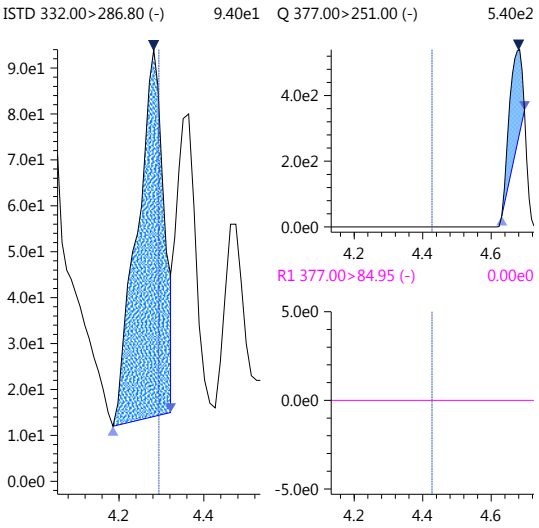
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.281 Area 341

ADONA

Conc 3.9831
RT 4.680 Area 736
R#1 0.00 (0.00)



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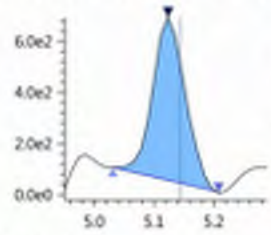
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Project File: J:\LCMS06\Data\190917_curve\190917_curve.damlp
Flags File: J:\LCMS06\Data\190917_curve\190917_curve.damlp

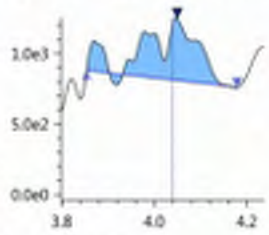
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Sample ID: T-PFOA
Date acquired: 9/18/2019 10:28:28 AM
Acquired by: System Administrator
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Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

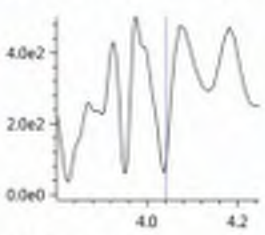
13C7-PFUnDA_IS
Conc 5.0000
RT 5.123 Area 2408
ISTD 570.00>525.00 (-) 6.93e2



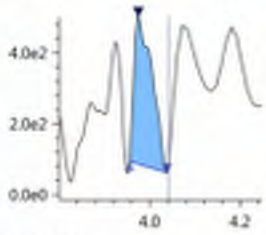
PFBS_1
Conc 13.6246
RT 4.050 Area 3286
Q 299.00>80.00 (-) 1.26e3



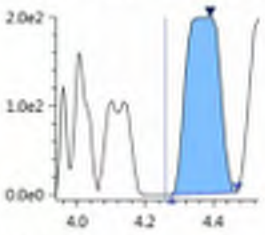
PFBS-13C
Conc ----
RT ---- Area ----
Q 301.80>80.00 (-) 5.00e2



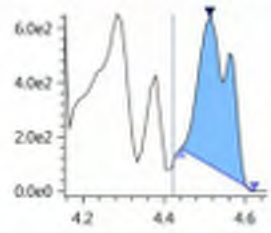
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Conc 5.0000
RT 3.975 Area 1157
ISTD 301.80>80.00 (-) 5.00e2



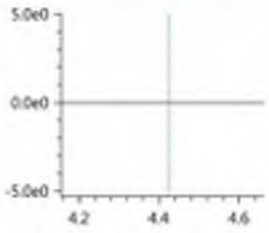
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Conc 10.6891
RT 4.390 Area 1373
Q 349.00>99.00 (-) 2.00e2



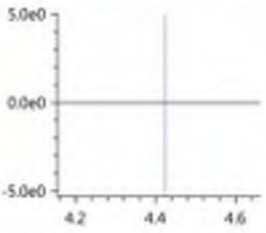
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Conc 0.0000
RT 4.513 Area 2887
Q 399.00>80.00 (-) 6.53e2



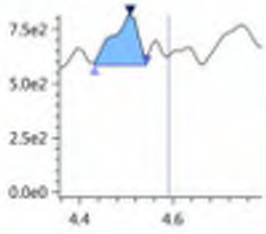
PFHxS-18O
Conc ----
RT ---- Area ----
Q 402.70>84.05 (-) 0.00e0



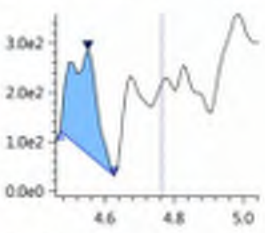
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RT ---- Area ----
ISTD 402.70>84.05 (-) 0.00e0



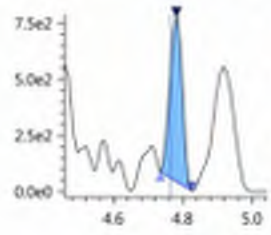
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Conc 0.0000
RT 4.508 Area 893
Q 449.00>80.15 (-) 8.16e2



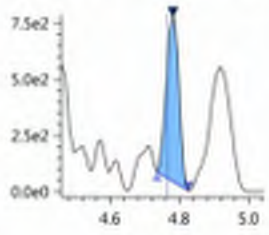
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Conc 5.5862
RT 4.551 Area 1095
Q 499.00>80.00 (-) 3.59e2



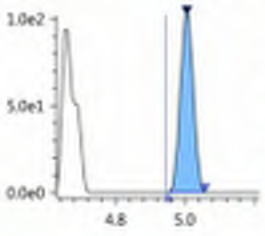
PFOS-13C
Conc 24.5575
RT 4.781 Area 1872
Q 502.80>80.05 (-) 7.89e2



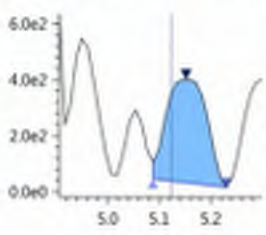
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Conc 5.0000
RT 4.781 Area 1872
ISTD 502.80>80.05 (-) 7.89e2



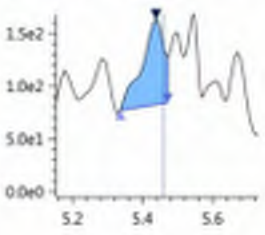
PFNS
Conc 1.3703
RT 5.006 Area 275
Q 549.00>99.00 (-) 1.02e2



PFDS_1
Conc 7.8874
RT 5.152 Area 2028
Q 599.00>79.90 (-) 6.33e2



PFDOS
Conc 1.0561
RT 5.438 Area 350
Q 699.00>79.95 (-) 1.68e2

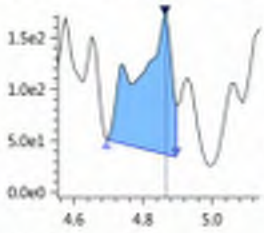


Manual Integration - Before

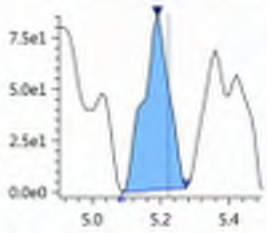
Insight Report

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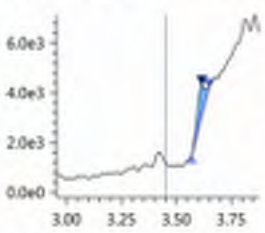
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RT 4.864 Area 897
Q 531.00>351.00 (-) 1.72e2



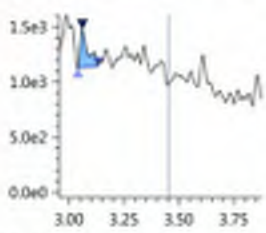
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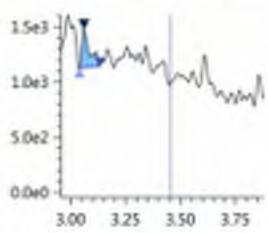
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Q 213.00>169.10 (-) 7.12e3



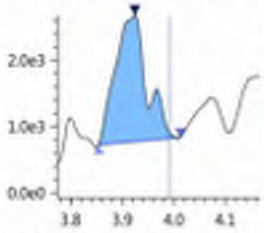
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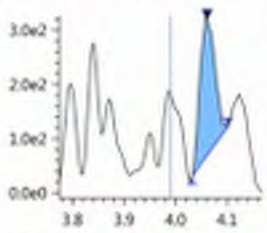
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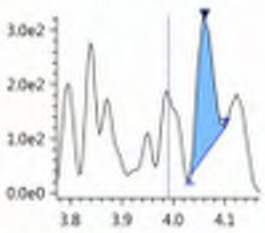
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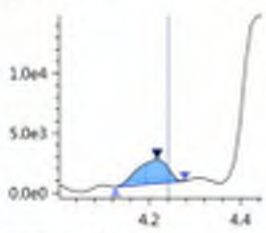
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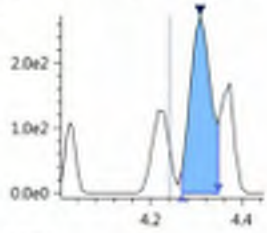
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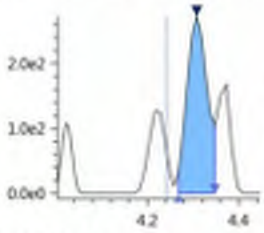
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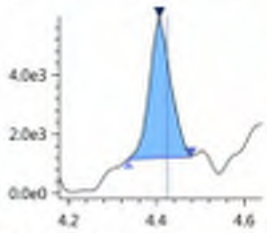
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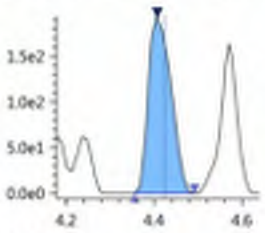
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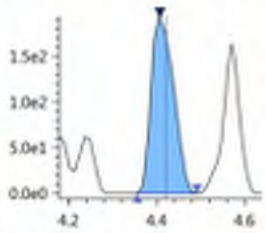
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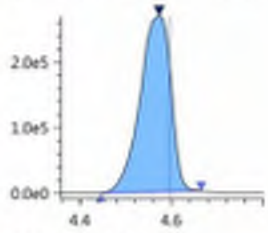
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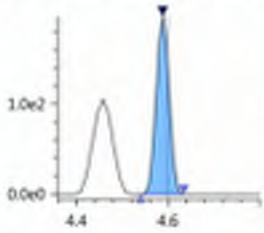
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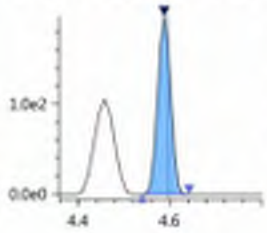
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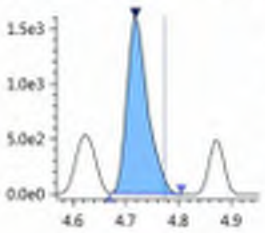
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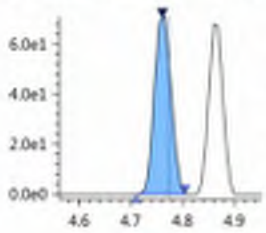
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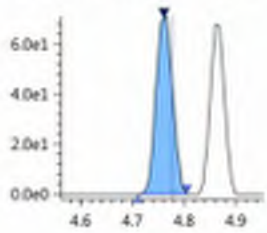
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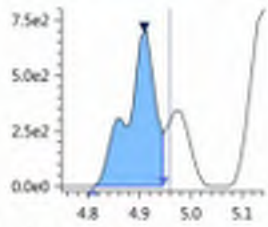
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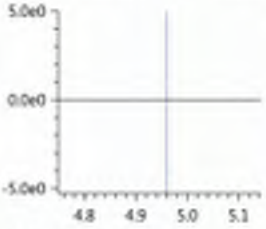
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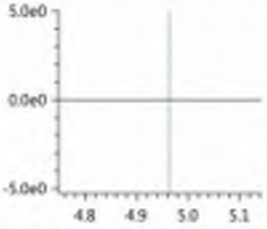
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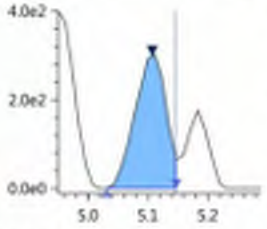
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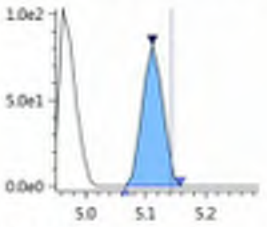
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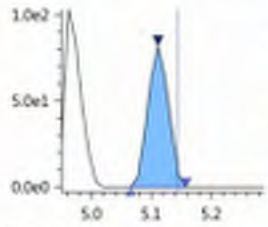
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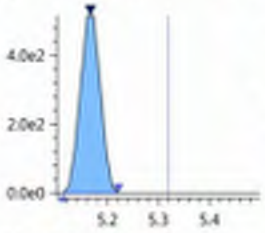
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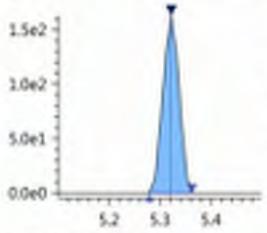
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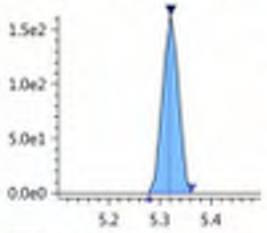
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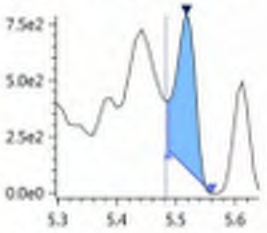
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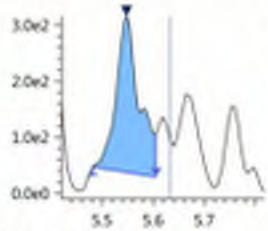
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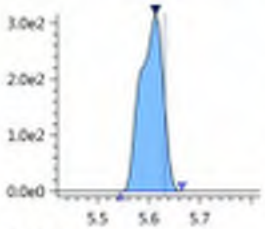
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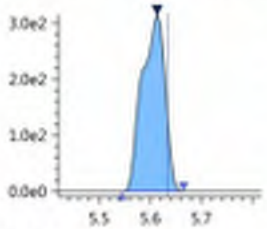
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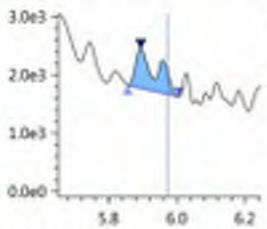
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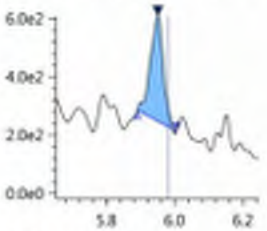
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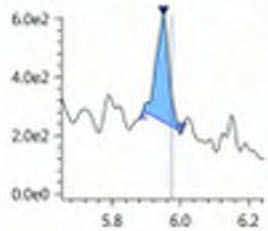
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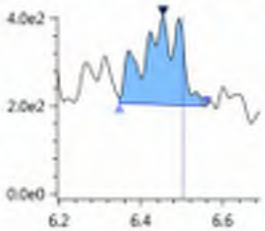
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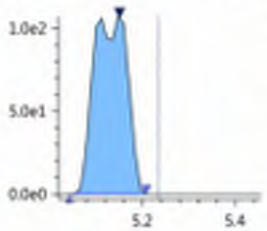
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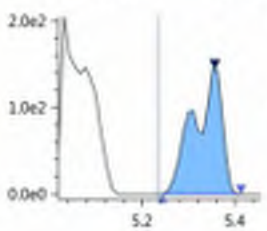
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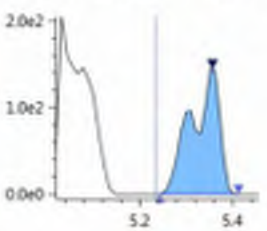
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FOSA-13C
Conc 3.0738
RT 5.356 Area 618
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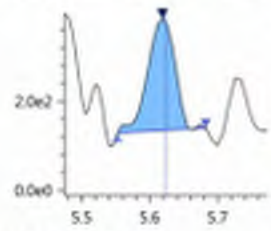


Manual Integration - Before

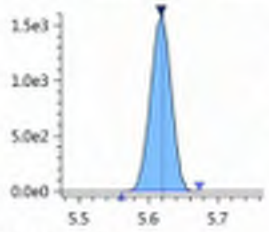
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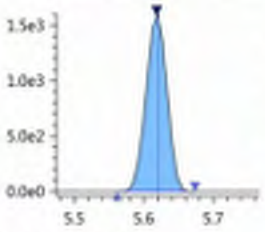
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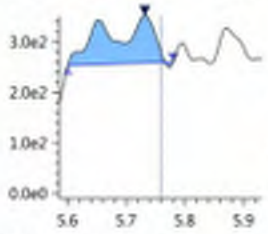
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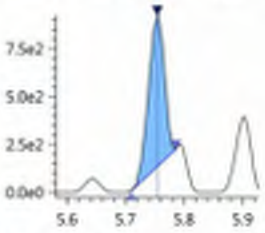
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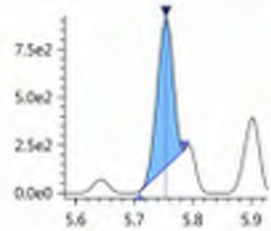
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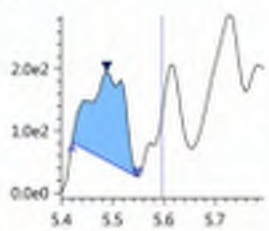
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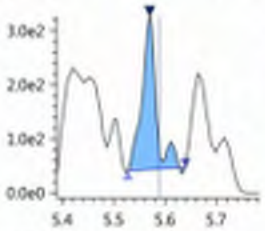
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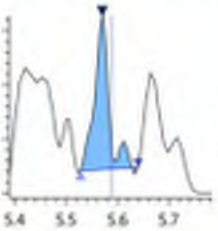
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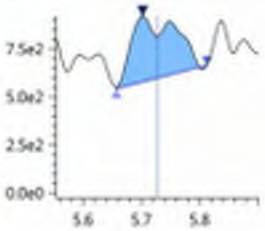
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RT 5.570 Area 543
Q 622.70>59.10 (-) 3.28e2



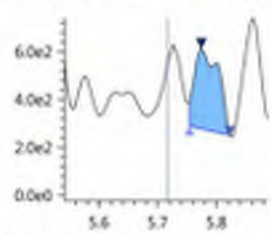
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.570 Area 543
ISTD 622.70>59.10 (-) 3.28e2



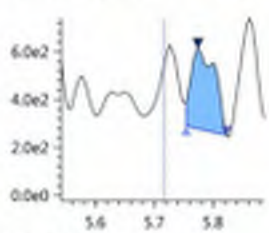
N-EtFOSE
Conc 6.7293
RT 5.702 Area 1728
Q 630.00>58.90 (-) 9.23e2



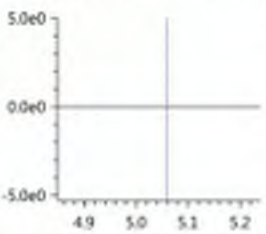
N-EtFOSE-d9
Conc 12.7032
RT 5.774 Area 956
Q 638.70>59.10 (-) 7.40e2



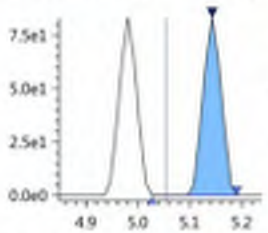
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.774 Area 956
ISTD 638.70>59.10 (-) 7.40e2



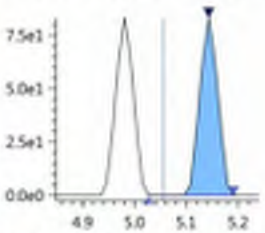
N-MeFOSAA
Conc ----
RT ---- Area ----
Q 570.20>419.00 (-) 0.00e0



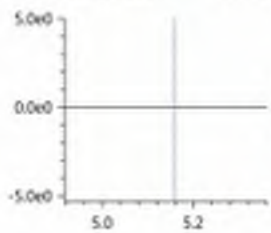
N-MeFOSAA-d3
Conc 5.3871
RT 5.143 Area 202
Q 572.80>419.05 (-) 8.30e1



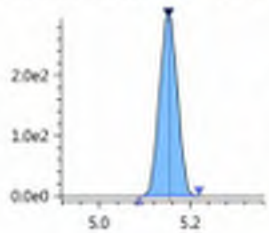
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.143 Area 202
ISTD 572.80>419.05 (-) 8.30e1



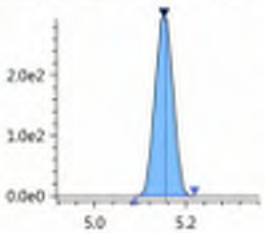
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



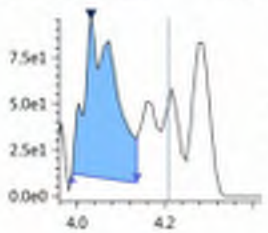
N-EtFOSAA-d5
Conc 24.1773
RT 5.152 Area 823
Q 588.80>419.00 (-) 2.94e2



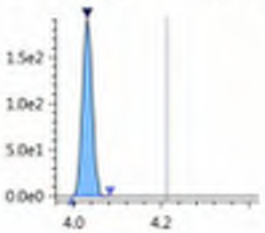
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.152 Area 823
ISTD 588.80>419.00 (-) 2.94e2



4_2-FTS_1
Conc 8.5264
RT 4.032 Area 432
Q 327.00>307.05 (-) 9.60e1



4_2-FTS-13C
Conc 6.7288
RT 4.031 Area 309
Q 328.80>309.05 (-) 1.92e2

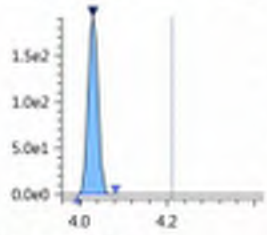


Manual Integration - Before

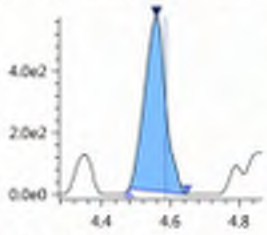
Insight Report

Printed at 9/18/2019 10:54:00 AM

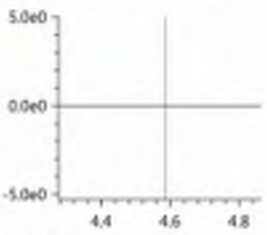
4_2-FTS-13C_IS
Conc 5.0000
RT 4.031 Area 309
ISTD 328.80>309.05 (-) 1.92e2



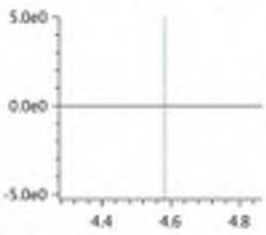
6_2-FTS_1
Conc 0.0000
RT 4.559 Area 2441
Q 427.00>407.00 (-) 5.76e2



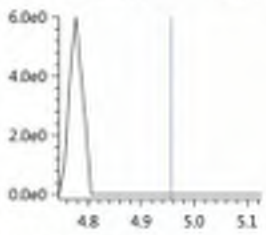
6_2-FTS-13C
Conc ----
RT ---- Area ----
Q 428.90>409.00 (-) 0.00e0



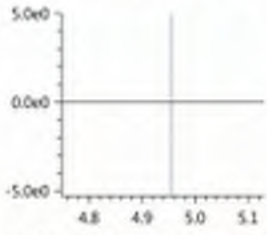
6_2-FTS-13C_IS
Conc ----
RT ---- Area ----
ISTD 428.90>409.00 (-) 0.00e0



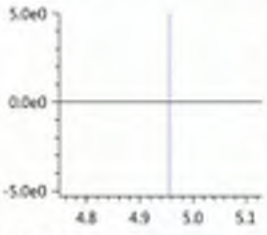
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 6.00e0



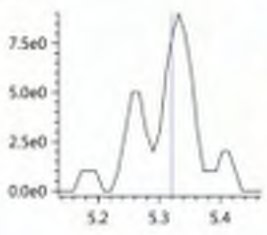
8_2-FTS-13C
Conc ----
RT ---- Area ----
Q 528.80>509.00 (-) 0.00e0



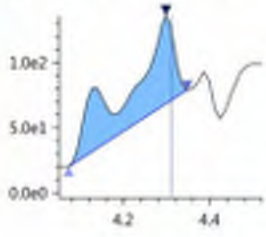
8_2-FTS-13C_IS
Conc ----
RT ---- Area ----
ISTD 528.80>509.00 (-) 0.00e0



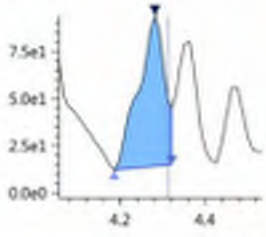
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 (-) 9.00e0



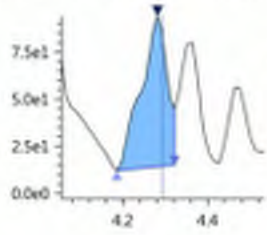
HPFO_DA
Conc 9.0843
RT 4.298 Area 502
Q 329.00>169.00 (-) 1.36e2



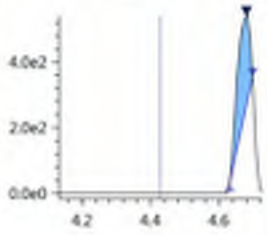
HFPO_DA-13C
Conc 1.9371
RT 4.281 Area 341
Q 332.00>286.80 (-) 9.40e1



HFPO_DA-13C_IS
Conc 5.0000
RT 4.281 Area 341
ISTD 332.00>286.80 (-) 9.40e1



ADONA
Conc 3.9831
RT 4.680 Area 736
Q 377.00>251.00 (-) 5.40e2



190920_curve

ICAL Date: 9/20/2019
Std. xp: Curve 2/28/2020 ICV 11/18/2019
ICAL ID: ~~KC1900932~~ KC1900392 EE
LIMS ID: NA EBD 4/23/19

1st Review: LDamrau
2nd Review:

ALS ENVIRONMENTAL
LCMS06 -Shimadzu 8050

Column: Phenomenex EVO-C18 100X4.6 mm S/N: H19-206919
Mobile Phases **A:** 5mM Ammonium Acetate in H2O 19-OLC-02-491 **B:** 5mM Ammonium Acetate In MeOH 19-OLC-02-491

	Sample Name		File Name	Acquisition Method	Dilution	R	
1	IB	19-OLC-01-52O	190920_007	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	
2	0.05 PPB ICAL	19-OLC-01-51A	190920_008	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	curve invalid for HFPO-DA, 4:2
3	0.10 PPB ICAL	19-OLC-01-51B	190920_009	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	curve invalid for HFPO-DA, 4:2
4	0.50 PPB ICAL	19-OLC-01-51C	190920_010	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	curve invalid for HFPO-DA, 4:2
5	1.0 PPB CCV/ICAL	19-OLC-01-52P	190920_011	PFAS_190920_35_LONG_LCMS06.lcm	1x		NR, standards mismatch, analyze new 1.0ppb point
6	5.0 PPB ICAL	19-OLC-01-51E	190920_012	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	curve invalid for HFPO-DA, 4:2
7	10.0 PPB ICAL	19-OLC-01-51F	190920_013	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	curve invalid for HFPO-DA, 4:2
8	15.0 PPB ICAL	19-OLC-01-51G	190920_014	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	curve invalid for HFPO-DA, 4:2
9	IB	19-OLC-01-52O	190920_015	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	
10	1.0 PPB ICAL	19-OLC-01-51D	190920_016	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	curve invalid for HFPO-DA, 4:2
11	1.0 PPB ICV	19-OLC-01-51H	190920_017	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	high 11Cl-PF3OUdS recovery, RR all samples with hits > MRL
12	IB	19-OLC-01-52O	190920_018	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	
13	T-PFOA	19-OLC-01-35A	190920_019	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	

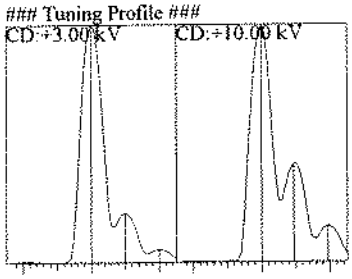
J:\LCMS06\Data\190920_curve\190920_curve_injsd.log

Sample Information
Sample Type: PEG+PPG+Raffinose

Tuning Condition
Detector Adjustment: On
Resolution Adjustment: On
FWHM of Spectrum: 0.70
Sensitivity Adjustment: On
Mass Calibration: On

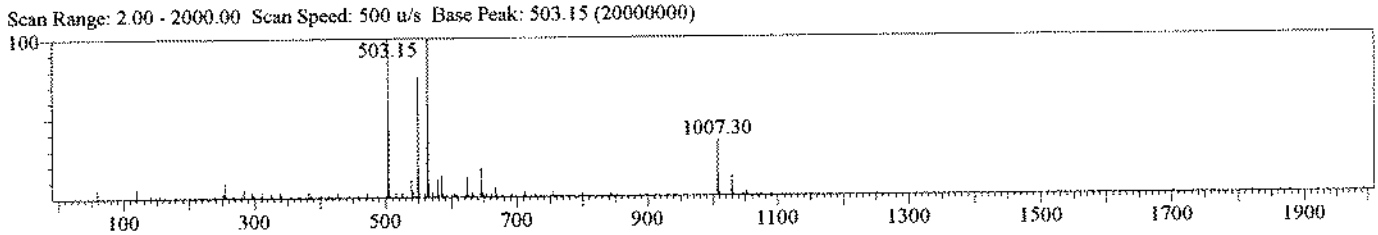
Tuning Result
Model: LCMS-8050
Interface: ESI
Polarity: Neg
Tuning Mode: Auto
Tuning Date: 9/20/2019 1:32:56 PM
Acquisition Mode: Q1 Scan(Use CID Gas)

Nebulizing Gas Flow: 1.50(settings : 1.50) L/min
Drying Gas Flow: 0.00(settings : 10.00) L/min
CID Gas Flow: 270(settings : 270) kPa
Interface Bias: -3.00 kV
Interface Current: 0.43 uA
DL Temp.: 249(settings : 250) C
Heat Block Temp.: 400(settings : 400) C
Q1 RF Gain: 5000
Q1 RF Offset: 5002
Q3 RF Gain: ---
Q3 RF Offset: ---
Q1 Post-rod Bias: 5.0 V
CID CELL Exit Lens: 3.5 V
Conversion Dynode: +10.00 kV
Detector: -2.12(-2.12) kV
PG Vacuum: 1.3e+002 Pa
IG Vacuum: 2.1e-003 Pa

Tuning Profile


Int.: 10919847 FWHM: 0.73 m/z : 503.15 Mag.: 1
Int.: 7033844 FWHM: 0.72 m/z : 1007.30 Mag.: 2

Scan Range: 2.00 - 2000.00 Scan Speed: 500 u/s Base Peak: 503.15 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15	503.15	0.00	0.73	10919847
1007.30	1007.30	0.00	0.72	7033844

Shift within ±0.5 Da

ESD 9/23/19

9/24/19

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
DL Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray RF	Scan	+50.0	+34.8	+90.0	+110.0	+130.0	+130.0	+130.0	+130.0
Multipole RF	Scan	+100.0	+30.0	+80.0	+140.0	+200.0	+300.0	+300.0	+300.0
Multipole1 Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Multipole1 Lens	Const	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0
Multipole2 Bias	Const	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0
Multipole2 Lens	Const	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4
Q1 Bias	Const	+3.5	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0
CC Lens1	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
CC Lens2	Const	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
CC Lens3	Const	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
CC RF	Scan	+200.0	+70.0	+110.0	+130.0	+300.0	+300.0	+300.0	+300.0
CE	Scan	+15.0	+15.0	+15.0	+16.0	+17.0	+21.0	+25.0	+25.0
Q3 Bias	Scan	+15.0	+15.0	+15.0	+15.1	+15.2	+15.6	+16.0	+17.0

		Const	107.15	1071.50	1893.40
Q1 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0
Q3 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0

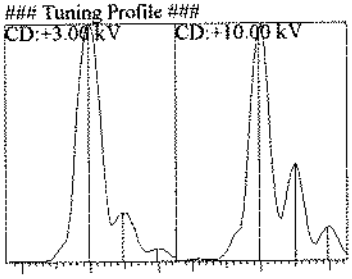
Sample Information
Sample Type: PEG+PPG+Raffinose

Tuning Condition
Detector Adjustment: On
Resolution Adjustment: On
FWHM of Spectrum: 0.70
Sensitivity Adjustment: On
Mass Calibration: On

Tuning Result
Model: LCMS-8050
Interface: ESI
Polarity: Neg
Tuning Mode: Auto
Tuning Date: 9/20/2019 1:39:53 PM
Acquisition Mode: Q3 Scan(Use CID Gas)

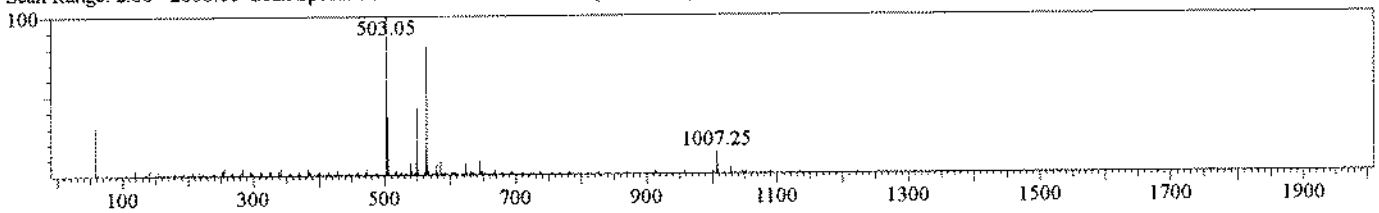
Nebulizing Gas Flow: 1.50(settings : 1.50) L/min
Drying Gas Flow: 0.00(settings : 10.00) L/min
CID Gas Flow: 270(settings : 270) kPa
Interface Bias: -3.00 kV
Interface Current: 0.42 uA
DL Temp.: 250(settings : 250) C
Heat Block Temp.: 400(settings : 400) C
Q1 RF Gain: ---
Q1 RF Offset: ---
Q3 RF Gain: 4999
Q3 RF Offset: 5005
Q1 Post-rod Bias: 5.0 V
CID CELL Exit Lens: 3.5 V
Conversion Dynode: +10.00 kV
Detector: -2.12(-2.12) kV
PG Vacuum: 1.3e+002 Pa
IG Vacuum: 2.1e-003 Pa

Tuning Profile



Int.: 7701219 FWHM: 0.80 m/z : 503.15 Mag.: 2
Int.: 2754348 FWHM: 0.66 m/z : 1007.30 Mag.: 7

Scan Range: 2.00 - 2000.00 Scan Speed: 500 u/s Base Peak: 503.05 (20000000)



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15	503.05	-0.10	0.80	7701219
1007.30	1007.25	-0.05	0.66	2754348

Shift within ± 0.5 Da
EOD 9/23/19

9/24/19

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
DL Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray RF	Scan	+50.0	+34.8	+90.0	+110.0	+130.0	+130.0	+130.0	+130.0
Multipole RF	Scan	+100.0	+30.0	+80.0	+140.0	+200.0	+300.0	+300.0	+300.0
Multipole1 Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Multipole1 Lens	Const	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0
Multipole2 Bias	Const	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0
Multipole2 Lens	Const	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4
Q1 Bias	Const	+3.5	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0
CC Lens1	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
CC Lens2	Const	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
CC Lens3	Const	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
CC RF	Scan	+200.0	+70.0	+110.0	+130.0	+300.0	+300.0	+300.0	+300.0
CE	Scan	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0	+5.0
Q3 Bias	Scan	+7.0	+7.0	+7.0	+7.1	+7.2	+7.6	+8.0	+9.0

		Const	107.15	1071.50	1893.40
Q1 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0
Q3 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0

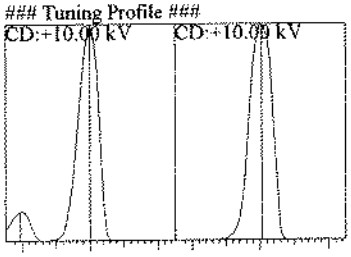
Sample Information
Sample Type: PEG+PPG+Raffinose

Tuning Condition
Detector Adjustment: On
Resolution Adjustment: On
FWHM of Spectrum: 0.70
Sensitivity Adjustment: On
Mass Calibration: On

Tuning Result
Model: LCMS-8050
Interface: ESI
Polarity: Neg
Tuning Mode: Auto
Tuning Date: 9/20/2019 1:46:11 PM
Acquisition Mode: Product Scan

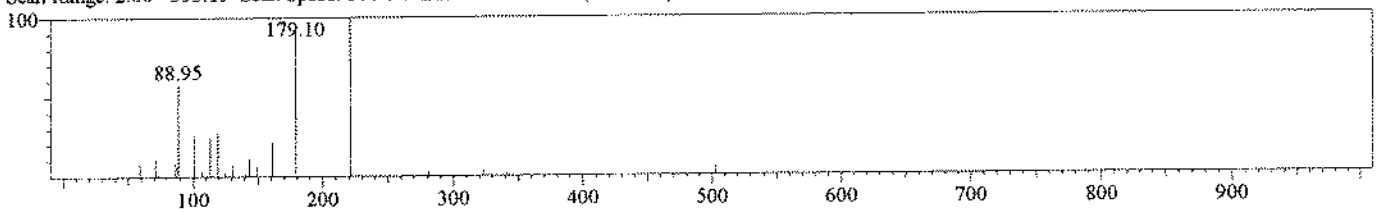
Nebulizing Gas Flow: 1.50(settings : 1.50) L/min
Drying Gas Flow: 0.00(settings : 10.00) L/min
CID Gas Flow: 270(settings : 270) kPa
Interface Bias: -3.00 kV
Interface Current: 0.45 uA
DL Temp.: 250(settings : 250) C
Heat Block Temp.: 399(settings : 400) C
Q1 RF Gain: 5000
Q1 RF Offset: 5000
Q3 RF Gain: 4999
Q3 RF Offset: 5018
Q1 Post-rod Bias: 5.0 V
CID CELL Exit Lens: -0.3 V
Conversion Dynode: +10.00 kV
Detector: -2.12(-2.12) kV
PG Vacuum: 1.3e+002 Pa
IG Vacuum: 2.1e-003 Pa

Tuning Profile



Int.: 2501770 Int.: 3629248
FWHM: 0.68 FWHM: 0.77
m/z : 89.00 m/z : 179.05
Pre m/z: 503.15 Pre m/z: 503.15
Mag.: 7 Mag.: 5

Scan Range: 2.00 - 553.15 Scan Speed: 500 u/s Base Peak: 221.10 (4245903) Pre m/z: 503.15



m/z(Target)	m/z(Actual)	Difference	Width	Intensity
503.15 > 89.00	88.95	-0.05	0.68	2501770
503.15 > 179.05	179.10	0.05	0.77	3629248

shift within ± 0.5 Da
ESD 9/23/19

9/24/19

		Const	65.05	168.10	256.15	344.20	652.40	1004.60	1893.40
DL Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Qarray RF	Scan	+50.0	+34.8	+90.0	+110.0	+130.0	+130.0	+130.0	+130.0
Multipole RF	Scan	+100.0	+30.0	+80.0	+140.0	+200.0	+300.0	+300.0	+300.0
Multipole1 Bias	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
Multipole1 Lens	Const	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0
Multipole2 Bias	Const	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0	+1.0
Multipole2 Lens	Const	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4	+1.4
Q1 Bias	Const	+3.5	+3.5	+3.5	+3.5	+3.5	+3.5	+3.5	+3.5
CC Lens1	Const	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0
CC Lens2	Const	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0	+100.0
CC Lens3	Const	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0	+20.0

		Const	45.05	89.05	133.10	168.10	1893.40
CC RF	Scan	+80.0	+80.0	+120.0	+300.0	+300.0	+300.0
CE	Scan	+30.0	+30.0	+30.0	+30.0	+30.0	+30.0
Q3 Bias	Scan	+7.0	+7.0	+7.0	+7.0	+7.0	+9.0

		Const	107.15	1071.50	1893.40
Q1 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0
Q3 Pre Bias	Scan	+15.0	+5.0	+50.0	+50.0

Insight Report

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Method File: J:\LCMS06\Data\190920_curve\190920_curve.lcm
Project File: J:\LCMS06\Data\190920_curve\190920_curve.damlp
Flags File: J:\LCMS06\Data\190920_curve\190920_curve.damlp

190920_007

Sample ID: IB
Date acquired: 9/20/2019 3:27:14 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_007.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.136	5604699	5604699	1	5.0000	ng/mL	----
PFBS_1	M	4.037	634	1438277	2	0.0017	ng/mL	----
PFBS-13C	Auto	4.042	1440688	5604699	1	5.2661	ng/mL	----
PFBS-13C_IS	Auto	4.042	1438277	1438277	2	5.0000	ng/mL	----
PFPeS	ND(W/B)	----	----	1438277	2	----	ng/mL	----
PFHxS_1	M	4.423	3665	1174502	3	0.0112	ng/mL	----
PFHxS-18O	Auto	4.423	1174502	5604699	1	7.6920	ng/mL	----
PFHxS-18O_IS	Auto	4.423	1174502	1174502	3	5.0000	ng/mL	----
PFHpS_1	ND(W/B)	----	----	1174502	3	----	ng/mL	----
PFOS_1	M	4.760	1254	866586	4	0.0069	ng/mL	----
PFOS-13C	Auto	4.760	866586	5604699	1	5.6932	ng/mL	----
PFOS-13C_IS	Auto	4.760	866586	866586	4	5.0000	ng/mL	----
PFNS	NI	----	----	866586	4	----	ng/mL	----
PFDS_1	ND(W/B)	----	----	866586	4	----	ng/mL	----
PFDOS	M	5.454	86	866586	4	0.0005	ng/mL	----
9Cl-PF3ONS	M	4.864	829	866586	4	0.0006	ng/mL	----
11Cl-PF3OUdS	M	5.228	164	866586	4	0.0002	ng/mL	----
PFBA	M	3.448	3542	4863337	5	0.0038	ng/mL	----
PFBA-13C	Auto	3.448	4863337	5604699	1	5.4347	ng/mL	----
PFBA-13C_IS	Auto	3.448	4863337	4863337	5	5.0000	ng/mL	----
PFPeA	Auto	3.989	127348	3150392	6	0.0056	ng/mL	----
PFPeA-13C	Auto	3.989	3150392	5604699	1	5.3747	ng/mL	----
PFPeA-13C_IS	Auto	3.989	3150392	3150392	6	5.0000	ng/mL	----
PFHxA	Auto	4.235	22324	8933895	7	-0.0010	ng/mL	----
PFHxA-13C	Auto	4.242	8933895	5604699	1	6.6069	ng/mL	----
PFHxA-13C_IS	Auto	4.242	8933895	8933895	7	5.0000	ng/mL	----
PFHpA	M	4.401	19065	7273020	8	-0.0033	ng/mL	----
PFHpA-13C	Auto	4.422	7273020	5604699	1	6.3616	ng/mL	----
PFHpA-13C_IS	Auto	4.422	7273020	7273020	8	5.0000	ng/mL	----
PFOA	M	4.591	31815	7372833	9	0.0084	ng/mL	----
PFOA-13C	Auto	4.593	7372833	5604699	1	5.4665	ng/mL	----
PFOA-13C_IS	Auto	4.593	7372833	7372833	9	5.0000	ng/mL	----
PFNA	Auto	4.755	5389	6242455	10	-0.0126	ng/mL	----
PFNA-13C	Auto	4.770	6242455	5604699	1	6.0912	ng/mL	----
PFNA-13C_IS	Auto	4.770	6242455	6242455	10	5.0000	ng/mL	----
PFDA	M	4.947	9890	4317743	11	0.0106	ng/mL	----
PFDA-13C	Auto	4.953	4317743	5604699	1	4.7673	ng/mL	----
PFDA-13C_IS	Auto	4.953	4317743	4317743	11	5.0000	ng/mL	----
PFUnA	M	5.131	16282	4640047	12	-0.0022	ng/mL	----
PFUnA-13C	Auto	5.137	4640047	5604699	1	5.7859	ng/mL	----
PFUnA-13C_IS	Auto	5.137	4640047	4640047	12	5.0000	ng/mL	----
PFDoA	Auto	5.307	5785	5904010	13	-0.0019	ng/mL	----
PFDoA-13C	Auto	5.310	5904010	5604699	1	4.4829	ng/mL	----
PFDoA-13C_IS	Auto	5.310	5904010	5904010	13	5.0000	ng/mL	----
PFTrDA	Auto	5.472	8949	9267180	14	-0.0054	ng/mL	----
PFTeDA	M	5.624	126542	9267180	14	0.0030	ng/mL	----
PFTeDA-13C	Auto	5.625	9267180	5604699	1	5.4568	ng/mL	----
PFTeDA-13C_IS	Auto	5.625	9267180	9267180	14	5.0000	ng/mL	----
PFHxDA	M	5.961	76498	8049956	15	-0.0001	ng/mL	----
13C-PFHxDA	Auto	5.961	8049956	5604699	1	5.1413	ng/mL	----
13C-PFHxDA_IS	Auto	5.961	8049956	8049956	15	5.0000	ng/mL	----
PFODA	M	6.482	4971	8049956	15	0.0053	ng/mL	----
FOSA	Auto	5.237	2933	2446875	16	0.0053	ng/mL	----
FOSA-13C	Auto	5.232	2446875	5604699	1	4.8026	ng/mL	----
FOSA-13C_IS	Auto	5.232	2446875	2446875	16	5.0000	ng/mL	----
N-MeFOSA	M	5.618	2779	817994	17	0.0117	ng/mL	----
N-MeFOSA-d3	Auto	5.616	817994	5604699	1	5.4414	ng/mL	----
N-MeFOSA-d3_IS	Auto	5.616	817994	817994	17	5.0000	ng/mL	----
N-EtFOSA	M	5.755	3962	1118320	18	0.0987	ng/mL	----
N-EtFOSA-d9	Auto	5.751	1118320	5604699	1	5.1630	ng/mL	----
N-EtFOSA-d9_IS	Auto	5.751	1118320	1118320	18	5.0000	ng/mL	----
N-MeFOSE	M	5.594	138	724449	19	0.0006	ng/mL	----
N-MeFOSE-d7	Auto	5.584	724449	5604699	1	4.5885	ng/mL	----
N-MeFOSE-d7_IS	Auto	5.584	724449	724449	19	5.0000	ng/mL	----

Insight Report

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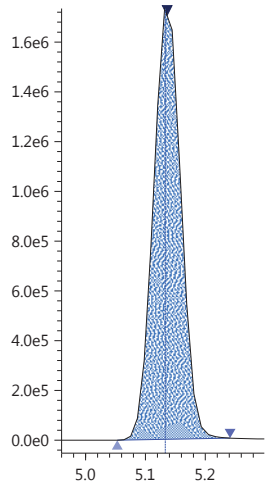
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-EtFOSE	Auto	5.721	2702	534114	20	0.0118	ng/mL	----
N-EtFOSE-d9	Auto	5.711	534114	5604699	1	4.6750	ng/mL	----
N-EtFOSE-d9_IS	Auto	5.711	534114	534114	20	5.0000	ng/mL	----
N-MeFOSAA	Auto	5.064	3092	780449	21	0.0243	ng/mL	----
N-MeFOSAA-d3	Auto	5.051	780449	5604699	1	5.3153	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.051	780449	780449	21	5.0000	ng/mL	----
N-EtFOSAA	ND(W/B)	----	----	709238	22	----	ng/mL	----
N-EtFOSAA-d5	Auto	5.148	709238	5604699	1	5.9364	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.148	709238	709238	22	5.0000	ng/mL	----
4_2-FTS_1	M	4.210	545	435106	23	0.0067	ng/mL	----
4_2-FTS-13C	Auto	4.210	435106	5604699	1	4.3279	ng/mL	----
4_2-FTS-13C_IS	Auto	4.210	435106	435106	23	5.0000	ng/mL	----
6_2-FTS_1	M	4.585	188	681414	24	0.0015	ng/mL	----
6_2-FTS-13C	Auto	4.581	681414	5604699	1	6.3590	ng/mL	----
6_2-FTS-13C_IS	Auto	4.581	681414	681414	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.941	43	445844	25	0.0007	ng/mL	----
8_2-FTS-13C	Auto	4.949	445844	5604699	1	6.7437	ng/mL	----
8_2-FTS-13C_IS	Auto	4.949	445844	445844	25	5.0000	ng/mL	----
10_2-FtS_1	M	5.305	11	445844	25	0.0002	ng/mL	----
HPFO_DA	Auto	4.311	518	1537467	26	-0.0628	ng/mL	----
HFPO_DA-13C	Auto	4.307	1537467	5604699	1	4.5513	ng/mL	----
HFPO_DA-13C_IS	Auto	4.307	1537467	1537467	26	5.0000	ng/mL	----
ADONA	ND(W/B)	----	----	1537467	26	----	ng/mL	----

13C7-PFUnDA_IS

Conc 5.0000
RT 5.136 Area 5604699

ISTD 570.00>525.00 (-) 1.73e6

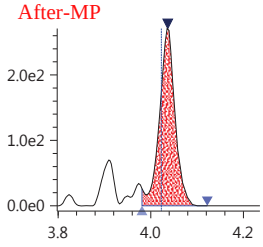


PFBS_1

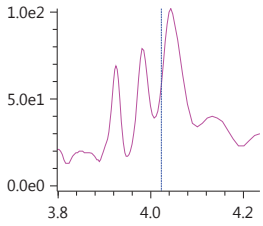
Conc 0.0017
RT 4.037 Area 634
R#1 6.04 (0.00)

Q 299.00>80.00 (-) 2.71e2

After-MP



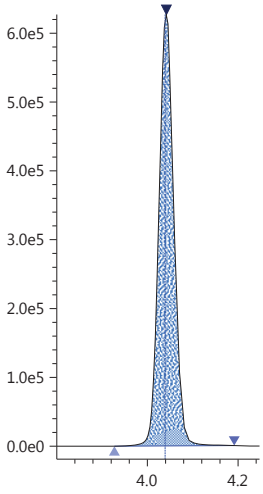
R1 298.80>99.00 (-) 1.02e2



PFBS-13C

Conc 5.2661
RT 4.042 Area 1440688

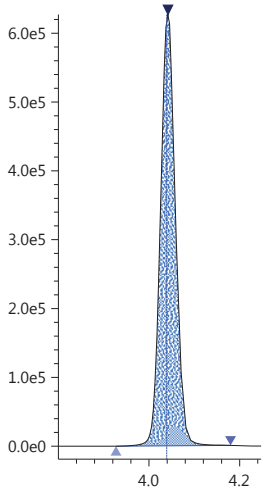
Q 301.80>80.00 (-) 6.27e5



PFBS-13C_IS

Conc 5.0000
RT 4.042 Area 1438277

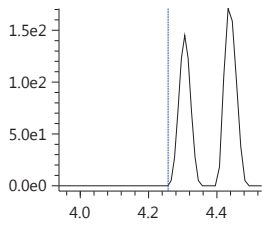
ISTD 301.80>80.00 (-) 6.27e5



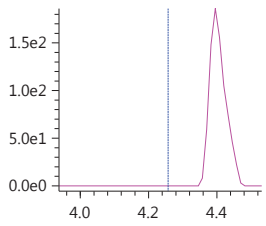
PFPeS

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 349.00>99.00 (-) 1.71e2

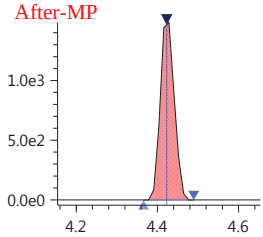
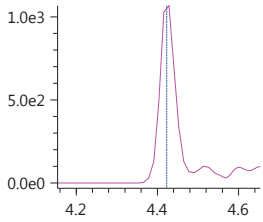


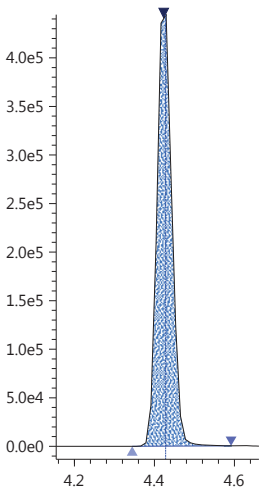
R1 349.00>79.95 (-) 1.86e2

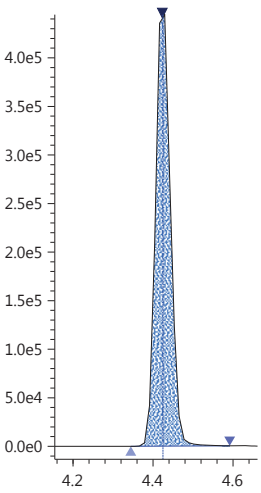


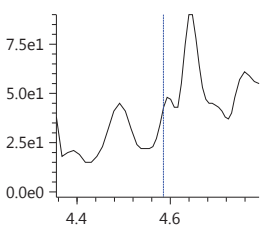
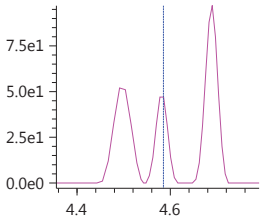
Insight Report

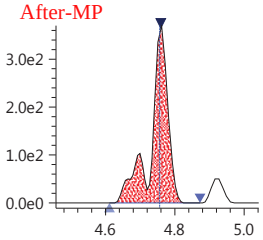
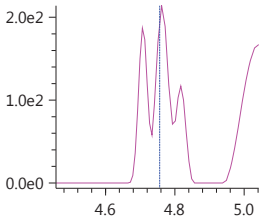
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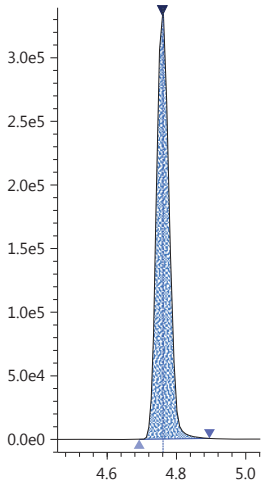
PFHxS_1
Conc 0.0112
RT 4.423 Area 3665
R#1 70.37 (0.00)
Q 399.00>80.00 (-) 1.49e3
After-MP

R1 399.00>99.00 (-) 1.07e3


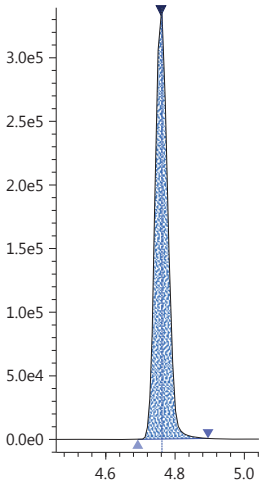
PFHxS-18O
Conc 7.6920
RT 4.423 Area 1174502
Q 402.70>84.05 (-) 4.44e5


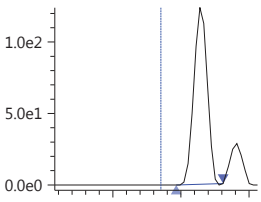
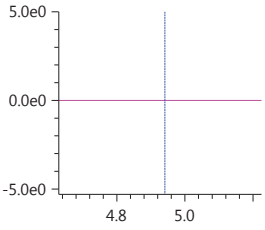
PFHxS-18O_IS
Conc 5.0000
RT 4.423 Area 1174502
ISTD 402.70>84.05 (-) 4.44e5


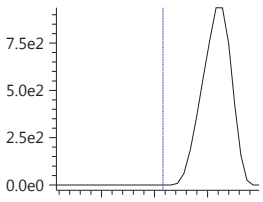
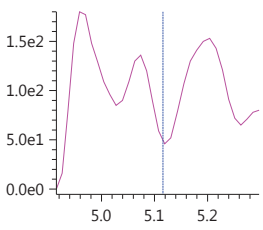
PFHpS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 449.00>80.15 (-) 9.00e1

R1 449.00>99.20 (-) 9.70e1


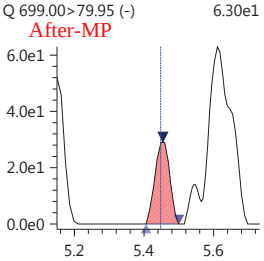
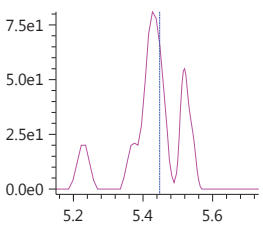
PFOS_1
Conc 0.0069
RT 4.760 Area 1254
R#1 57.75 (0.00)
Q 499.00>80.00 (-) 3.70e2
After-MP

R1 499.00>99.00 (-) 2.14e2


PFOS-13C
Conc 5.6932
RT 4.760 Area 866586
Q 502.80>80.05 (-) 3.39e5


PFOS-13C_IS
Conc 5.0000
RT 4.760 Area 866586
ISTD 502.80>80.05 (-) 3.39e5


PFNS
Conc ----
RT ---- Area ----
R#1 0.00 (0.00)
Q 549.00>99.00 (-) 1.24e2

R1 549.00>79.95 (-) 0.00e0


PFDS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 599.00>79.90 (-) 9.37e2

R1 599.00>99.10 (-) 1.80e2


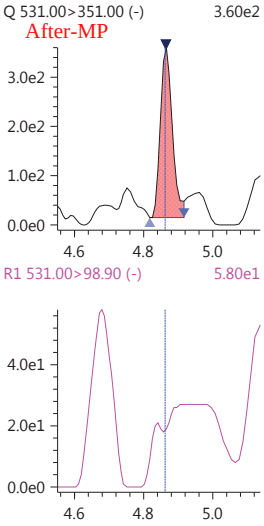
PFDOS
Conc 0.0005
RT 5.454 Area 86
R#1 72.41 (0.00)
Q 699.00>79.95 (-) 6.30e1
After-MP

R1 699.00>99.05 (-) 8.10e1


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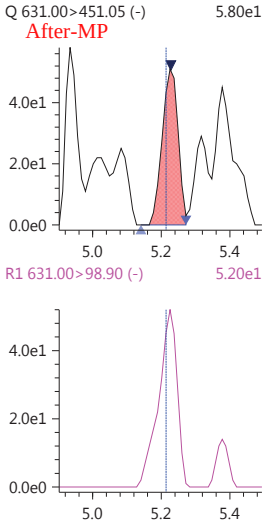
9Cl-PF3ONS

Conc 0.0006
RT 4.864 Area 829
R#1 0.66 (0.00)



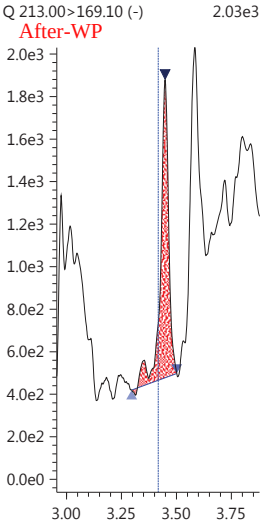
11Cl-PF3OUdS

Conc 0.0002
RT 5.228 Area 164
R#1 96.00 (0.00)



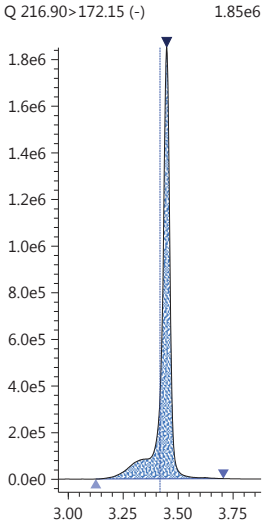
PFBA

Conc 0.0038
RT 3.448 Area 3542



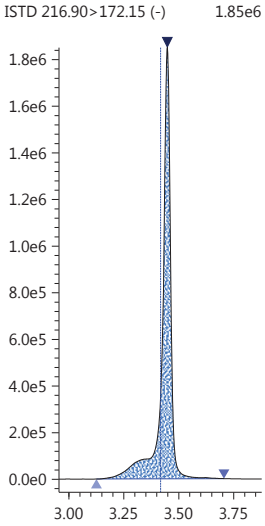
PFBA-13C

Conc 5.4347
RT 3.448 Area 4863337



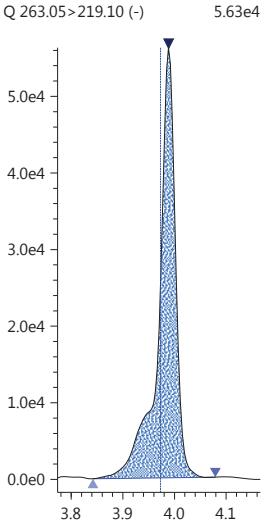
PFBA-13C_IS

Conc 5.0000
RT 3.448 Area 4863337



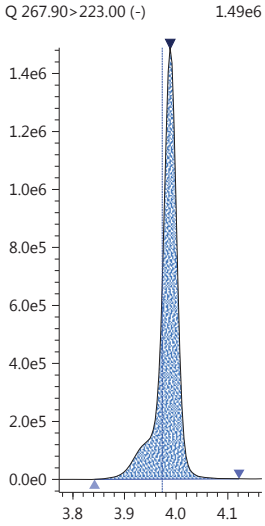
PFPeA

Conc 0.0056
RT 3.989 Area 127348



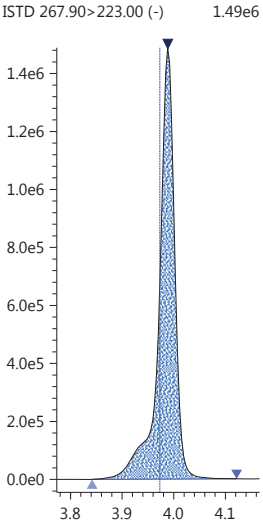
PFPeA-13C

Conc 5.3747
RT 3.989 Area 3150392



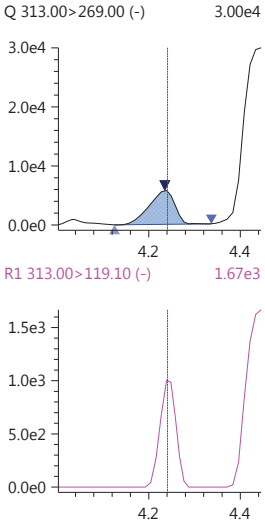
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Conc 5.0000
RT 3.989 Area 3150392



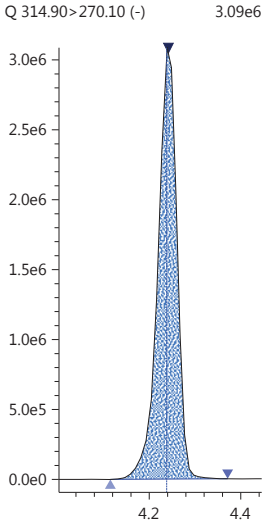
PFHxA

Conc -0.0010
RT 4.235 Area 22324
R#1 12.28 (0.00)



PFHxA-13C

Conc 6.6069
RT 4.242 Area 8933895



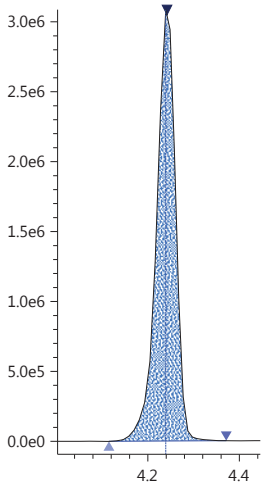
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PFHxA-13C_IS

Conc 5.0000
RT 4.242 Area 8933895

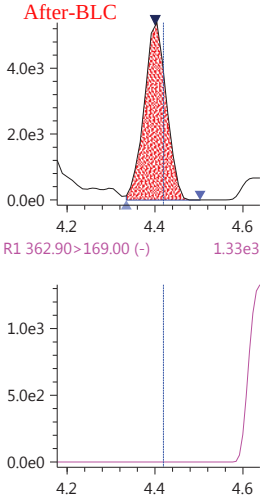
ISTD 314.90>270.10 (-) 3.09e6



PFHpA

Conc -0.0033
RT 4.401 Area 19065
R#1 0.00 (0.00)

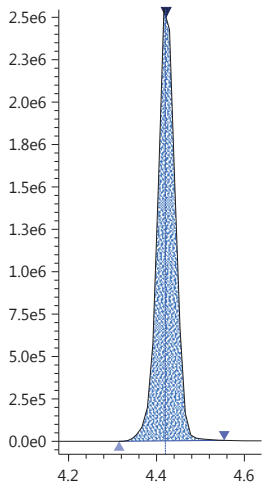
Q 362.90>319.00 (-) 5.39e3



PFHpA-13C

Conc 6.3616
RT 4.422 Area 7273020

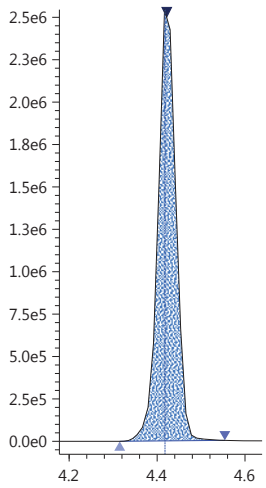
Q 366.90>322.10 (-) 2.55e6



PFHpA-13C_IS

Conc 5.0000
RT 4.422 Area 7273020

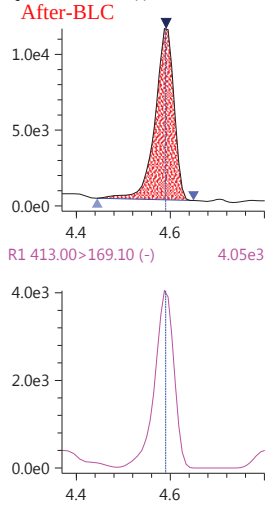
ISTD 366.90>322.10 (-) 2.55e6



PFOA

Conc 0.0084
RT 4.591 Area 31815
R#1 35.52 (0.00)

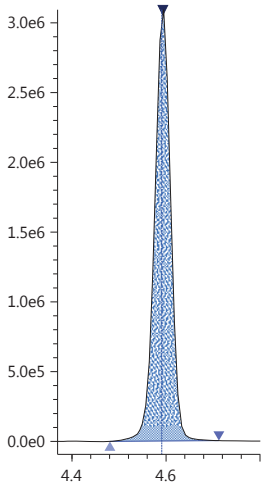
Q 413.00>369.00 (-) 1.17e4



PFOA-13C

Conc 5.4665
RT 4.593 Area 7372833

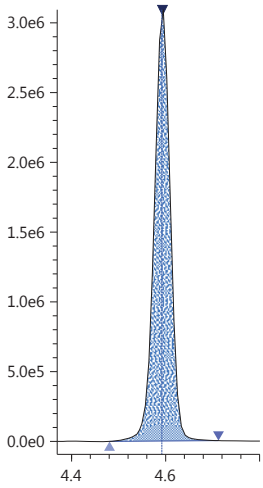
Q 416.80>372.05 (-) 3.09e6



PFOA-13C_IS

Conc 5.0000
RT 4.593 Area 7372833

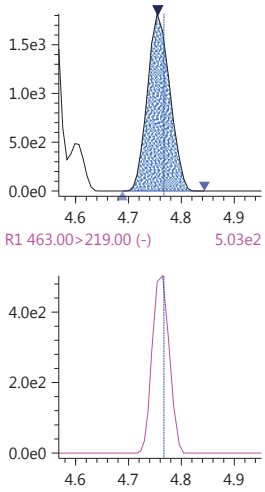
ISTD 416.80>372.05 (-) 3.09e6



PFNA

Conc -0.0126
RT 4.755 Area 5389
R#1 26.56 (0.00)

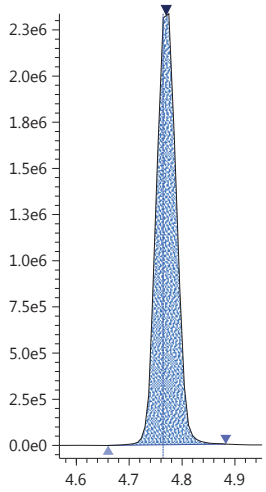
Q 463.00>418.90 (-) 1.82e3



PFNA-13C

Conc 6.0912
RT 4.770 Area 6242455

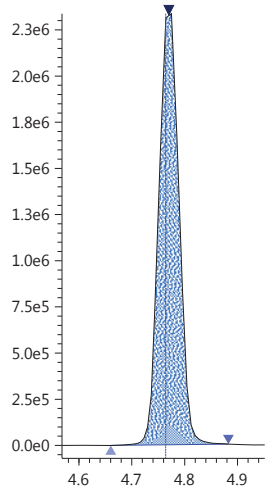
Q 467.80>423.00 (-) 2.34e6



PFNA-13C_IS

Conc 5.0000
RT 4.770 Area 6242455

ISTD 467.80>423.00 (-) 2.34e6



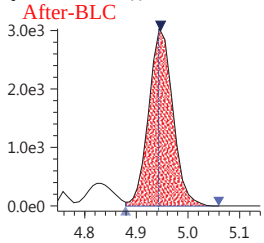
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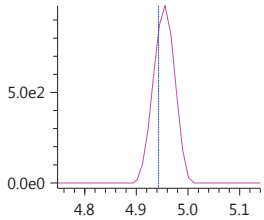
PFDA

Conc 0.0106
RT 4.947 Area 9890
R#1 29.40 (0.00)

Q 513.00>468.80 (-) 3.03e3



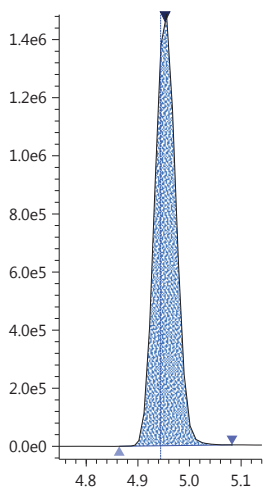
R1 513.00>219.10 (-) 9.79e2



PFDA-13C

Conc 4.7673
RT 4.953 Area 4317743

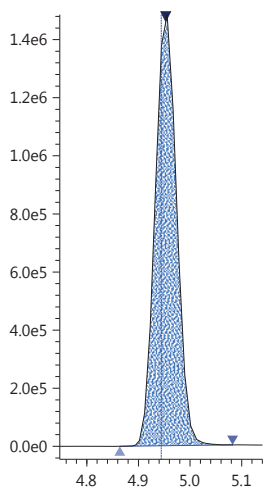
Q 514.80>469.95 (-) 1.49e6



PFDA-13C_IS

Conc 5.0000
RT 4.953 Area 4317743

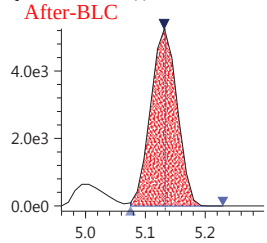
ISTD 514.80>469.95 (-) 1.49e6



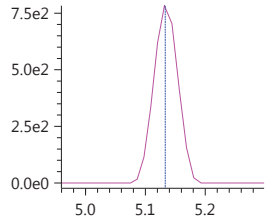
PFUnA

Conc -0.0022
RT 5.131 Area 16282
R#1 15.06 (0.00)

Q 563.00>518.90 (-) 5.26e3



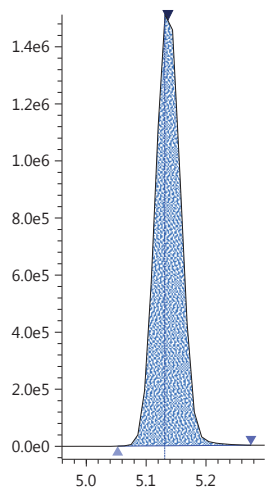
R1 563.00>219.00 (-) 7.83e2



PFUnA-13C

Conc 5.7859
RT 5.137 Area 4640047

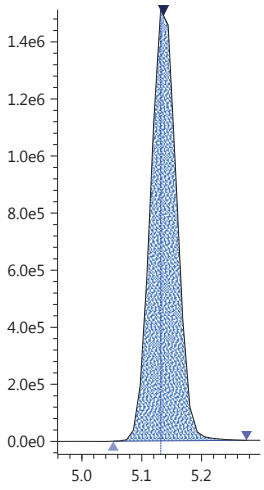
Q 564.80>519.95 (-) 1.51e6



PFUnA-13C_IS

Conc 5.0000
RT 5.137 Area 4640047

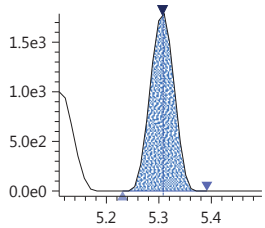
ISTD 564.80>519.95 (-) 1.51e6



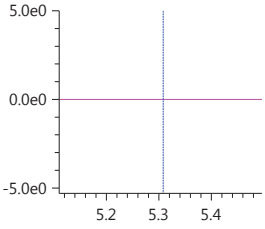
PFDoA

Conc -0.0019
RT 5.307 Area 5785
R#1 0.00 (0.00)

Q 613.05>569.00 (-) 1.79e3



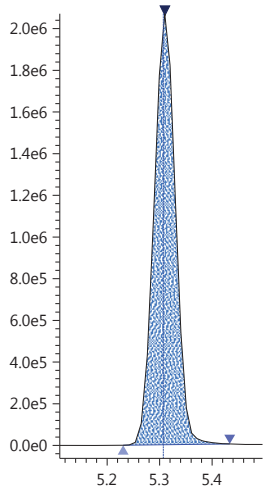
R1 613.05>169.00 (-) 0.00e0



PFDoA-13C

Conc 4.4829
RT 5.310 Area 5904010

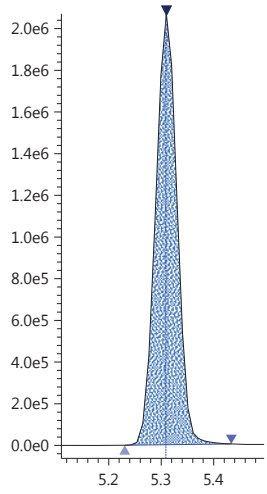
Q 614.80>569.95 (-) 2.07e6



PFDoA-13C_IS

Conc 5.0000
RT 5.310 Area 5904010

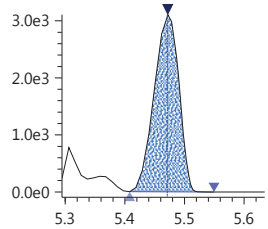
ISTD 614.80>569.95 (-) 2.07e6



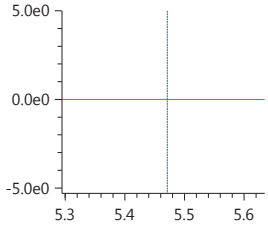
PFTrDA

Conc -0.0054
RT 5.472 Area 8949
R#1 0.00 (0.00)

Q 663.00>618.90 (-) 3.11e3



R1 662.90>169.00 (-) 0.00e0



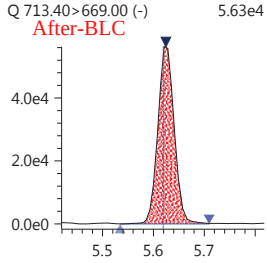
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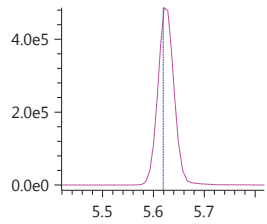
PFTeDA

Conc 0.0030
RT 5.624 Area 126542
R#1 864.11 (0.00)

Q 713.40>669.00 (-) 5.63e4



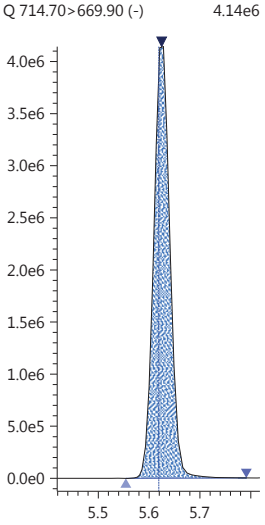
R1 713.40>169.10 (-) 4.87e5



PFTeDA-13C

Conc 5.4568
RT 5.625 Area 9267180

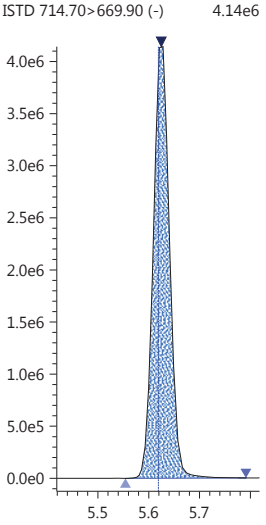
Q 714.70>669.90 (-) 4.14e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.625 Area 9267180

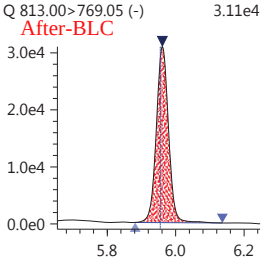
ISTD 714.70>669.90 (-) 4.14e6



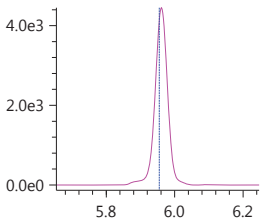
PFHxDA

Conc -0.0001
RT 5.961 Area 76498
R#1 14.24 (0.00)

Q 813.00>769.05 (-) 3.11e4



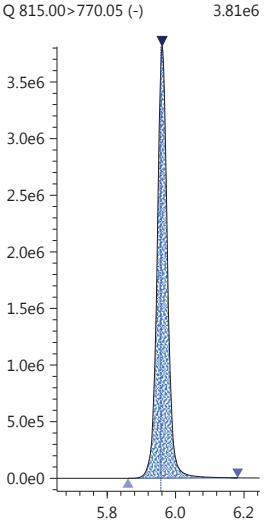
R1 813.00>218.95 (-) 4.45e3



13C-PFHxDA

Conc 5.1413
RT 5.961 Area 8049956

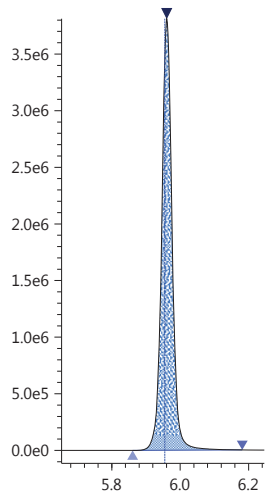
Q 815.00>770.05 (-) 3.81e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.961 Area 8049956

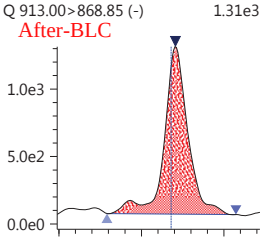
ISTD 815.00>770.05 (-) 3.81e6



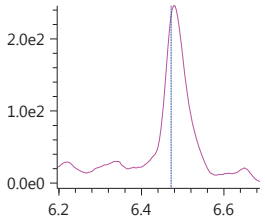
PFODA

Conc 0.0053
RT 6.482 Area 4971
R#1 17.30 (0.00)

Q 913.00>868.85 (-) 1.31e3



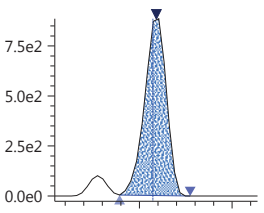
R1 913.00>169.00 (-) 2.46e2



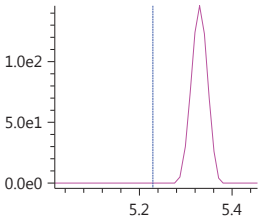
FOSA

Conc 0.0053
RT 5.237 Area 2933
R#1 0.00 (0.00)

Q 498.20>78.00 (-) 8.86e2



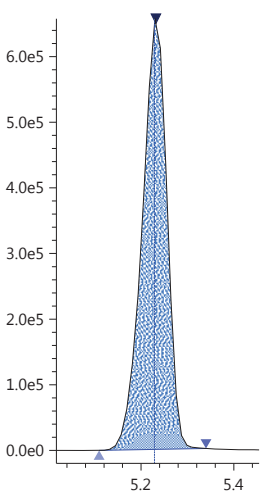
R1 498.20>64.10 (-) 1.46e2



FOSA-13C

Conc 4.8026
RT 5.232 Area 2446875

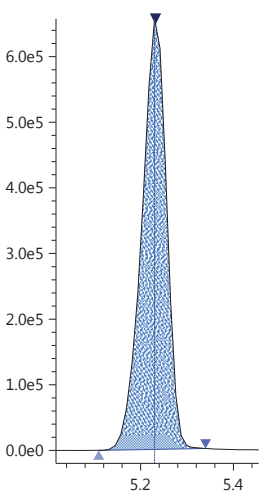
Q 506.00>78.05 (-) 6.58e5



FOSA-13C_IS

Conc 5.0000
RT 5.232 Area 2446875

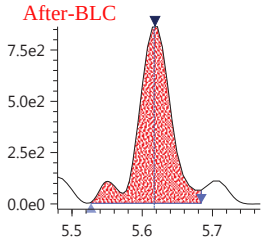
ISTD 506.00>78.05 (-) 6.58e5



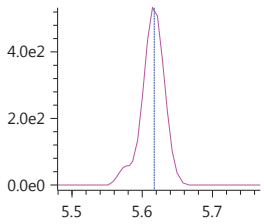
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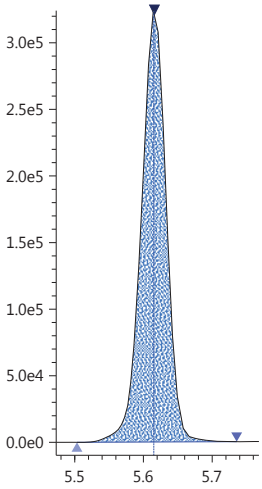
N-MeFOSA
Conc 0.0117
RT 5.618 Area 2779
R#1 65.52 (0.00)
Q 512.00>169.10 (-) 8.64e2



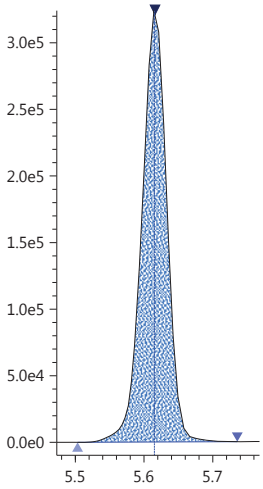
R1 512.00>219.00 (-) 5.33e2



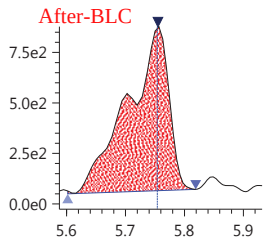
N-MeFOSA-d3
Conc 5.4414
RT 5.616 Area 817994
Q 514.90>168.90 (-) 3.24e5



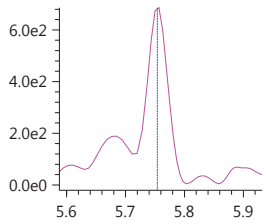
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.616 Area 817994
ISTD 514.90>168.90 (-) 3.24e5



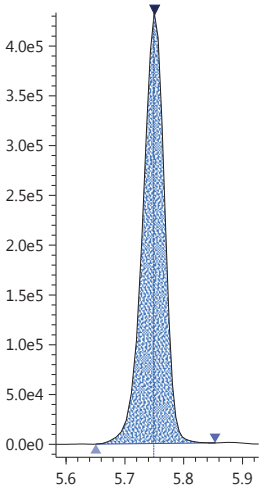
N-EtFOSA
Conc 0.0987
RT 5.755 Area 3962
R#1 80.84 (0.00)
Q 526.90>169.10 (-) 8.78e2



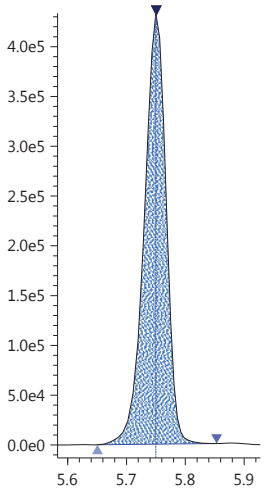
R1 526.90>219.00 (-) 6.86e2



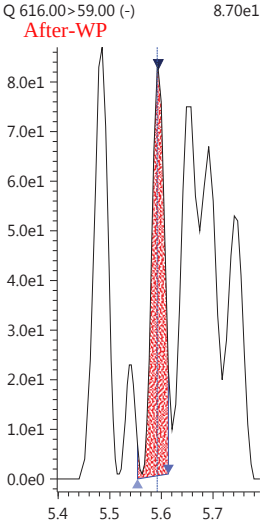
N-EtFOSA-d9
Conc 5.1630
RT 5.751 Area 1118320
Q 530.90>169.15 (-) 4.34e5



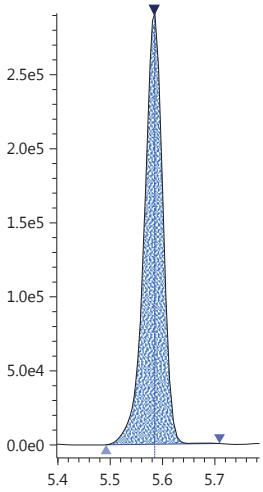
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.751 Area 1118320
ISTD 530.90>169.15 (-) 4.34e5



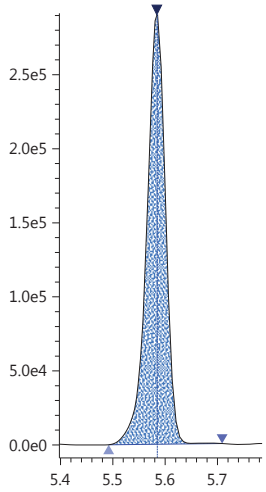
N-MeFOSE
Conc 0.0006
RT 5.594 Area 138
Q 616.00>59.00 (-) 8.70e1



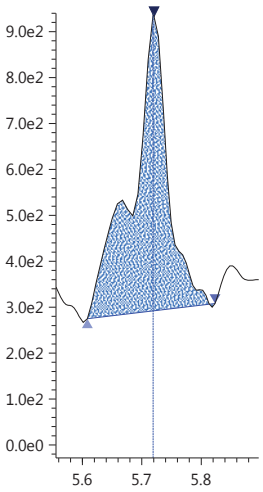
N-MeFOSE-d7
Conc 4.5885
RT 5.584 Area 724449
Q 622.70>59.10 (-) 2.91e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.584 Area 724449
ISTD 622.70>59.10 (-) 2.91e5



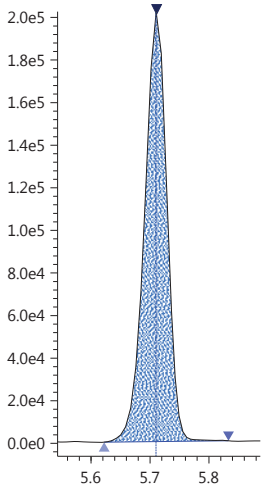
N-EtFOSE
Conc 0.0118
RT 5.721 Area 2702
Q 630.00>58.90 (-) 9.40e2



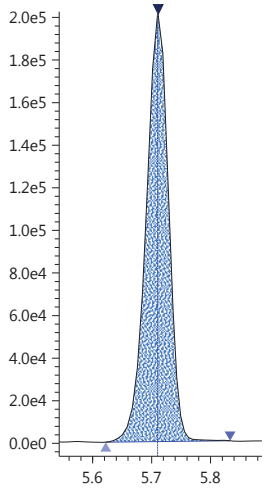
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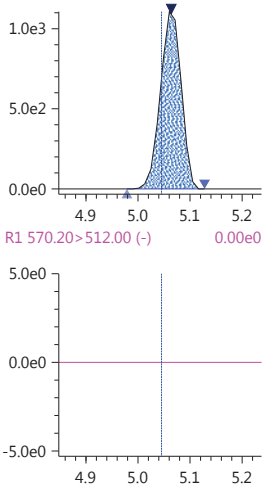
N-EtFOSE-d9
Conc 4.6750
RT 5.711 Area 534114
Q 638.70>59.10 (-) 2.03e5



N-EtFOSE-d9_IS
Conc 5.0000
RT 5.711 Area 534114
ISTD 638.70>59.10 (-) 2.03e5

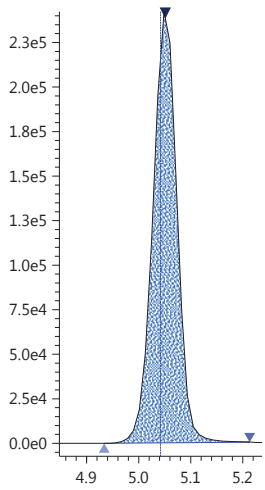


N-MeFOSAA
Conc 0.0243
RT 5.064 Area 3092
R#1 0.00 (0.00)
Q 570.20>419.00 (-) 1.11e3

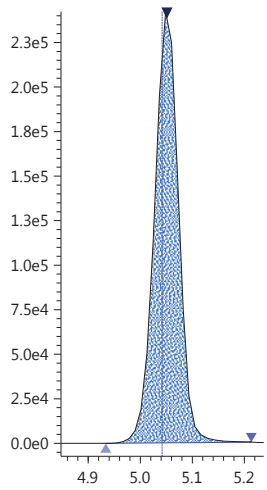


R1 570.20>512.00 (-) 0.00e0

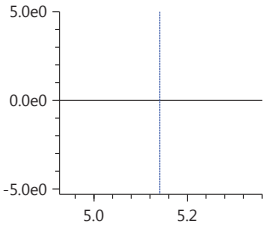
N-MeFOSAA-d3
Conc 5.3153
RT 5.051 Area 780449
Q 572.80>419.05 (-) 2.42e5



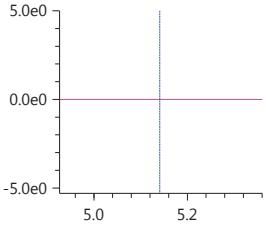
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.051 Area 780449
ISTD 572.80>419.05 (-) 2.42e5



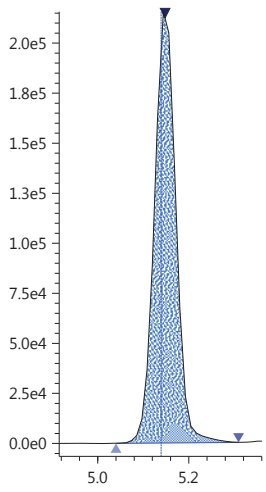
N-EtFOSAA
Conc ----
RT ---- Area ----
R#1 ---- (0.00)
Q 584.20>418.95 (-) 0.00e0



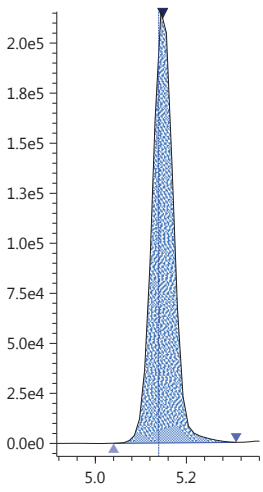
R1 584.20>526.10 (-) 0.00e0



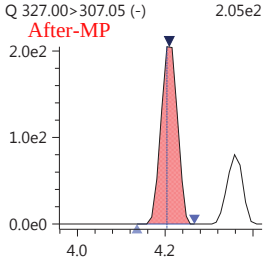
N-EtFOSAA-d5
Conc 5.9364
RT 5.148 Area 709238
Q 588.80>419.00 (-) 2.16e5



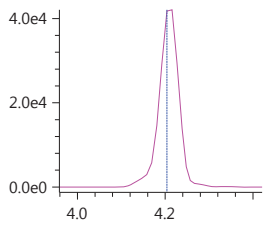
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.148 Area 709238
ISTD 588.80>419.00 (-) 2.16e5



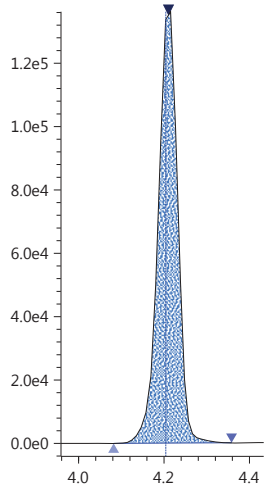
4_2-FTS_1
Conc 0.0067
RT 4.210 Area 545
R#1 20045.31 (0.00)
Q 327.00>307.05 (-) 2.05e2



R1 327.00>81.10 (-) 4.21e4



4_2-FTS-13C
Conc 4.3279
RT 4.210 Area 435106
Q 328.80>309.05 (-) 1.36e5



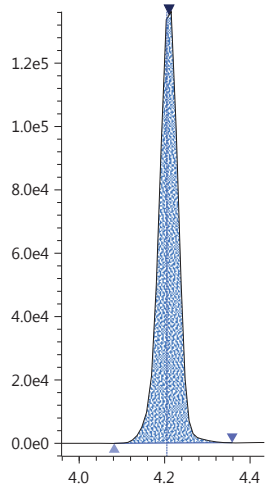
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4_2-FTS-13C_IS

Conc 5.0000
RT 4.210 Area 435106

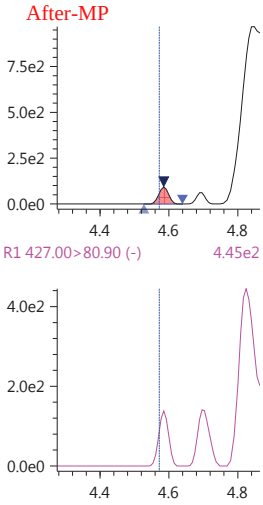
ISTD 328.80>309.05 (-) 1.36e5



6_2-FTS_1

Conc 0.0015
RT 4.585 Area 188
R#1 150.00 (0.00)

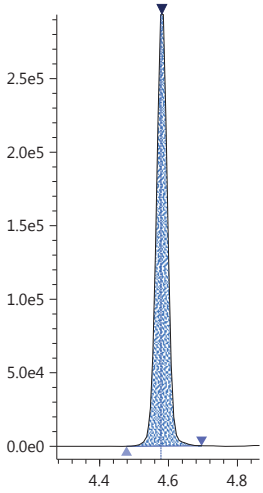
Q 427.00>407.00 (-) 9.68e2



6_2-FTS-13C

Conc 6.3590
RT 4.581 Area 681414

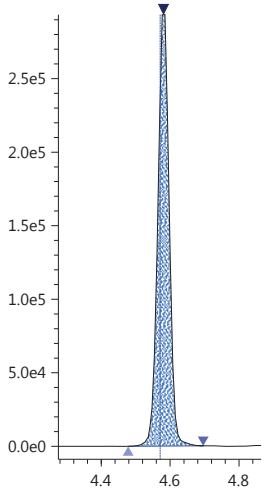
Q 428.90>409.00 (-) 2.94e5



6_2-FTS-13C_IS

Conc 5.0000
RT 4.581 Area 681414

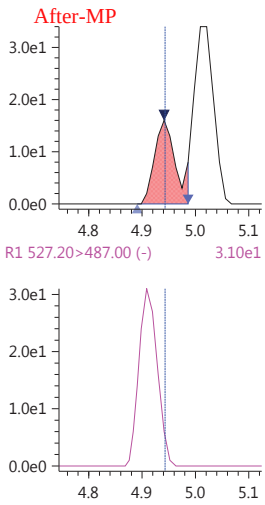
ISTD 428.90>409.00 (-) 2.94e5



8_2-FTS_1

Conc 0.0007
RT 4.941 Area 43
R#1 0.00 (0.00)

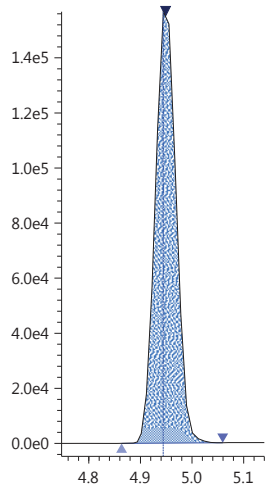
Q 527.10>506.90 (-) 3.40e1



8_2-FTS-13C

Conc 6.7437
RT 4.949 Area 445844

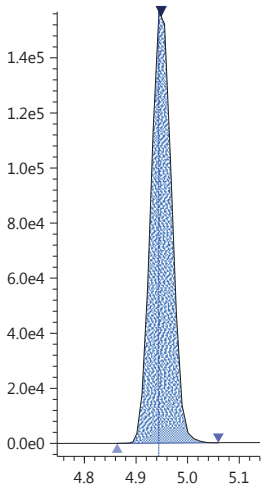
Q 528.80>509.00 (-) 1.57e5



8_2-FTS-13C_IS

Conc 5.0000
RT 4.949 Area 445844

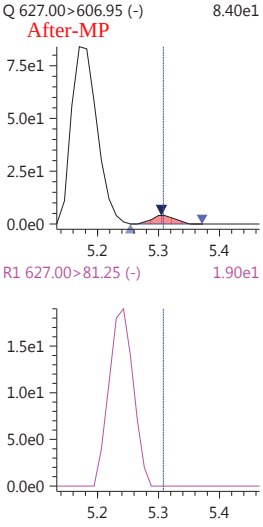
ISTD 528.80>509.00 (-) 1.57e5



10_2-FtS_1

Conc 0.0002
RT 5.305 Area 11
R#1 0.00 (0.00)

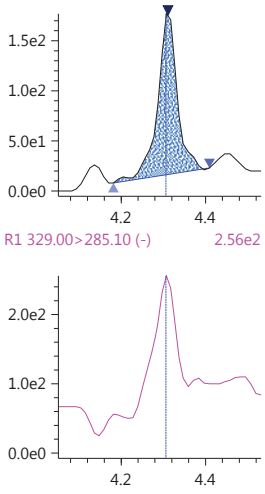
Q 627.00>606.95 (-) 8.40e1



HPFO_DA

Conc -0.0628
RT 4.311 Area 518
R#1 109.68 (0.00)

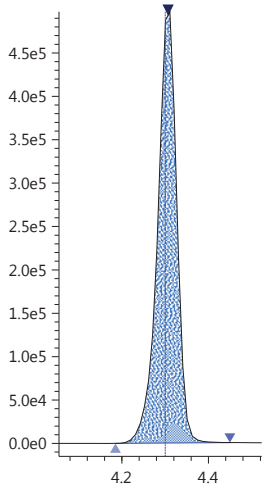
Q 329.00>169.00 (-) 1.77e2



HFPO_DA-13C

Conc 4.5513
RT 4.307 Area 1537467

Q 332.00>286.80 (-) 4.98e5

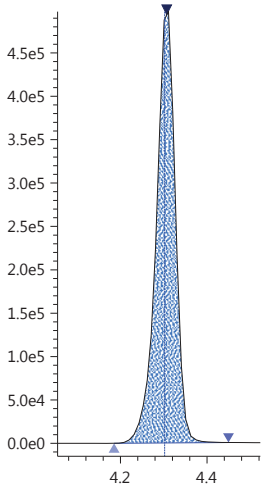


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HFPO_DA-13C_IS

Conc 5.0000
RT 4.307 Area 1537467

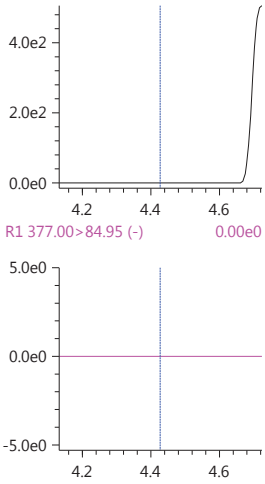
ISTD 332.00>286.80 (-) 4.98e5



ADONA

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 377.00>251.00 (-) 5.06e2



R1 377.00>84.95 (-) 0.00e0

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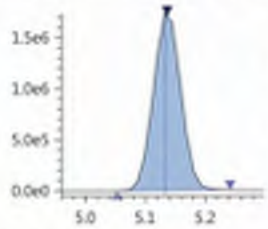
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Project File: J:\LCMS06\Data\190920_curve\190920_curve.damlp
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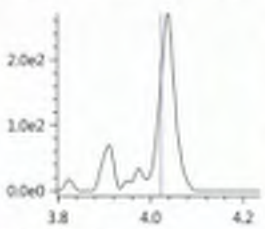
190920_007

Sample ID: IB
Date acquired: 9/20/2019 3:27:14 PM
Acquired by: System Administrator
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Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

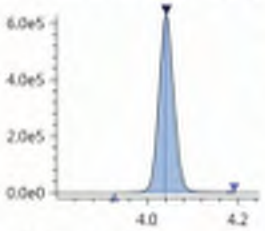
13C7-PFUnDA_IS
Conc 5.0000
RT 5.136 Area 5604699
ISTD 570.00>525.00 (-) 1.73e6



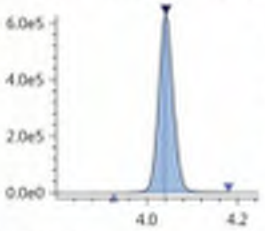
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 (-) 2.71e2



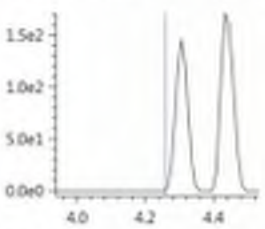
PFBS-13C
Conc 5.2661
RT 4.042 Area 1440688
Q 301.80>80.00 (-) 6.27e5



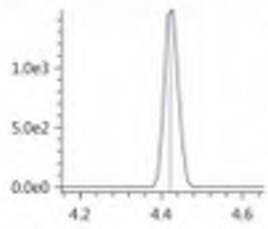
PFBS-13C_IS
Conc 5.0000
RT 4.042 Area 1438277
ISTD 301.80>80.00 (-) 6.27e5



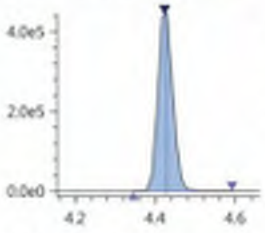
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Conc ----
RT ---- Area ----
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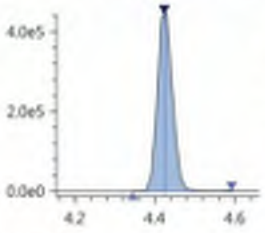
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Conc ----
RT ---- Area ----
Q 399.00>80.00 (-) 1.49e3



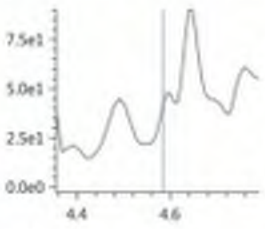
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Conc 7.5221
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Q 402.70>84.05 (-) 4.44e5



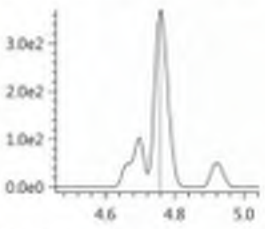
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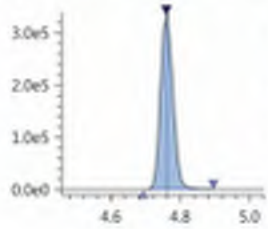
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Conc ----
RT ---- Area ----
Q 449.00>80.15 (-) 9.00e1



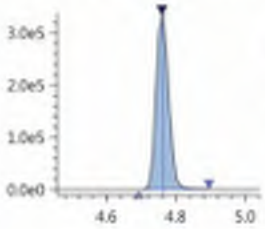
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RT ---- Area ----
Q 499.00>80.00 (-) 3.70e2



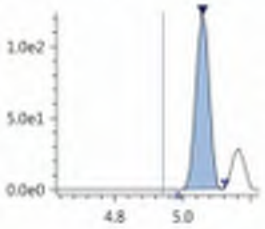
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Conc 5.6932
RT 4.760 Area 866586
Q 502.80>80.05 (-) 3.39e5



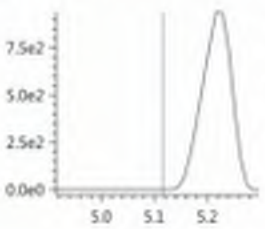
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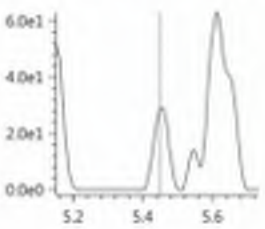
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Conc 0.0029
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Q 549.00>99.00 (-) 1.24e2



PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 (-) 9.37e2



PFDOS
Conc ----
RT ---- Area ----
Q 699.00>79.95 (-) 6.30e1

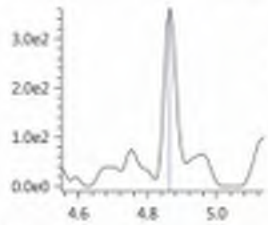


Manual Integration - Before

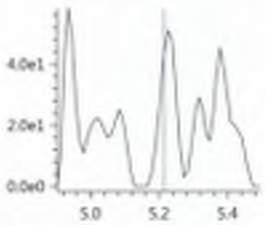
Insight Report

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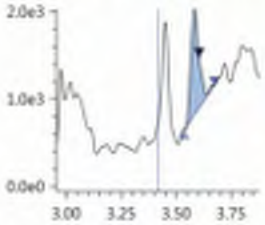
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RT ---- Area ----
Q 531.00>351.00 (-) 3.60e2



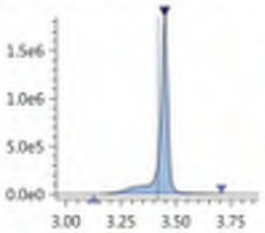
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RT ---- Area ----
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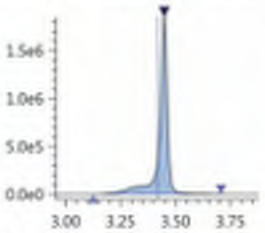
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Conc 0.0027
RT 3.602 Area 3183
Q 213.00>169.10 (-) 2.03e3



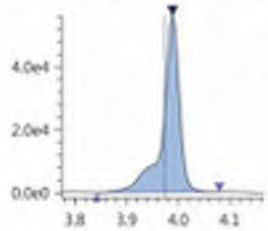
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RT 3.448 Area 4863337
Q 216.90>172.15 (-) 1.85e6



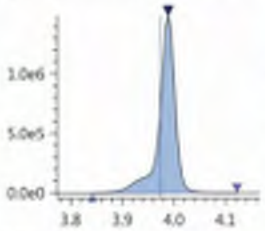
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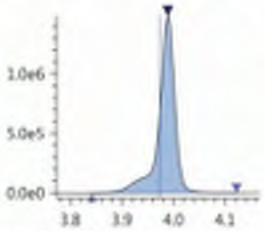
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RT 3.989 Area 127348
Q 263.05>219.10 (-) 5.63e4



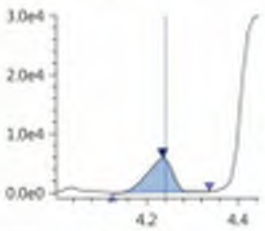
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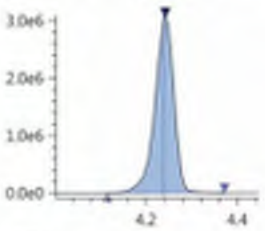
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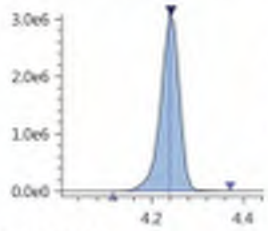
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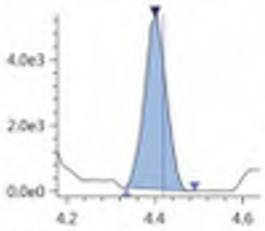
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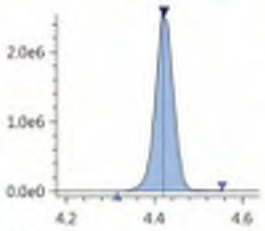
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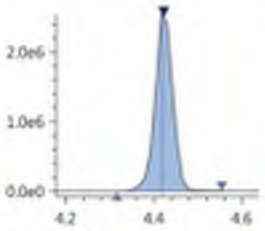
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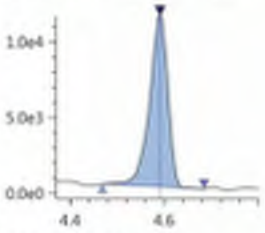
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RT 4.422 Area 7273020
Q 366.90>322.10 (-) 2.55e6



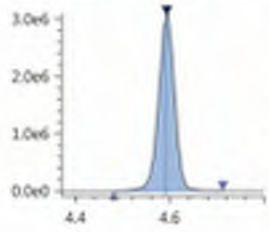
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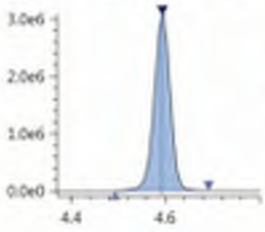
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RT 4.591 Area 30935
Q 413.00>369.00 (-) 1.17e4



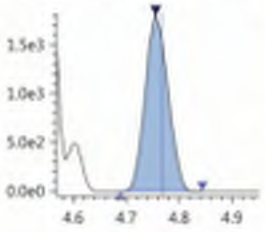
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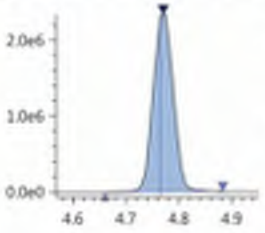
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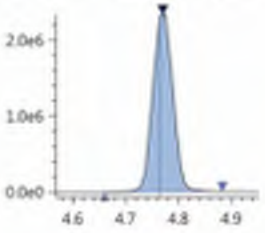
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RT 4.755 Area 5389
Q 463.00>418.90 (-) 1.82e3



PFNA-13C
Conc 6.0912
RT 4.770 Area 6242455
Q 467.80>423.00 (-) 2.34e6



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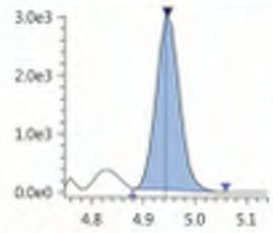


Manual Integration - Before

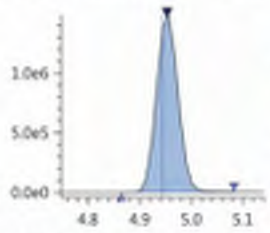
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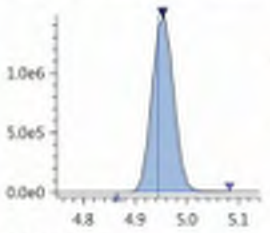
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Conc 0.0102
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Q 513.00>468.80 (-) 3.01e3



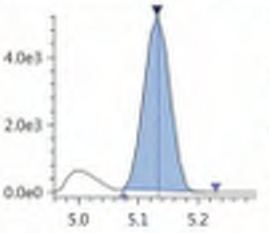
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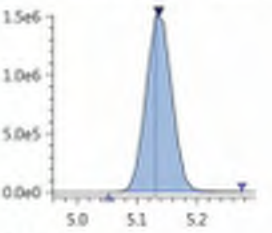
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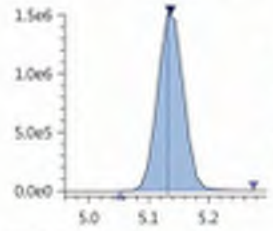
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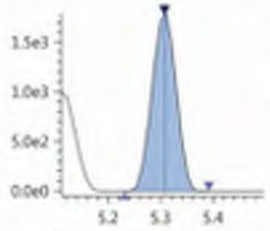
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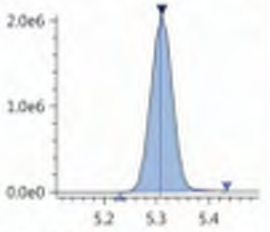
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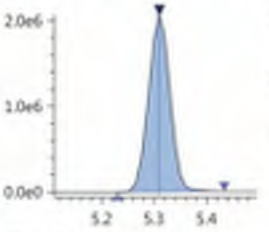
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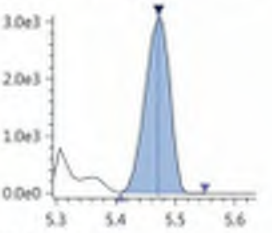
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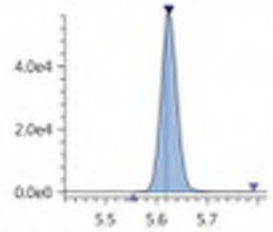
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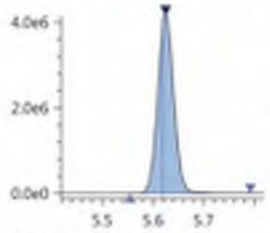
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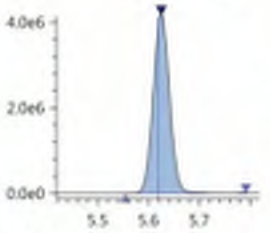
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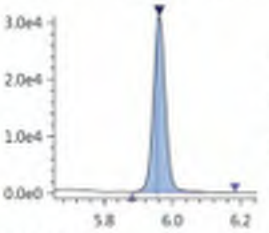
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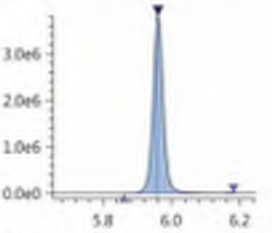
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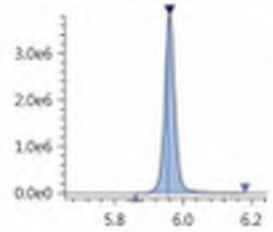
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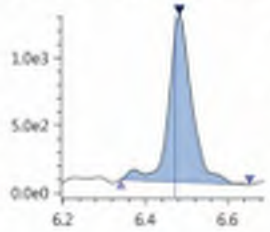
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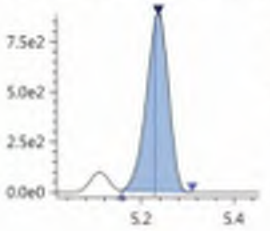
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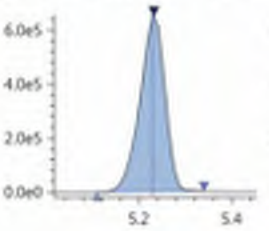
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RT 6.482 Area 4823
Q 913.00>868.85 (-) 1.31e3



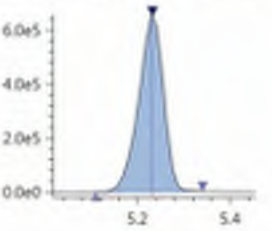
FOSA
Conc 0.0053
RT 5.237 Area 2933
Q 498.20>78.00 (-) 8.86e2



FOSA-13C
Conc 4.8026
RT 5.232 Area 2446875
Q 506.00>78.05 (-) 6.58e5



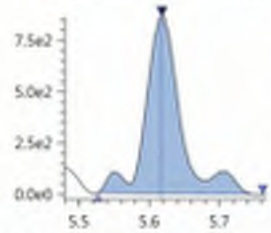
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Conc 5.0000
RT 5.232 Area 2446875
ISTD 506.00>78.05 (-) 6.58e5



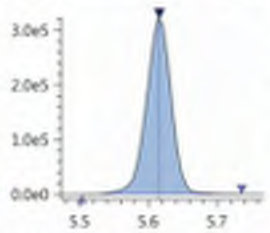
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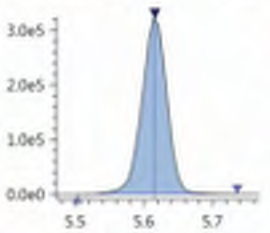
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Conc 0.0126
RT 5.618 Area 3006
Q 512.00>169.10 (-) 8.64e2



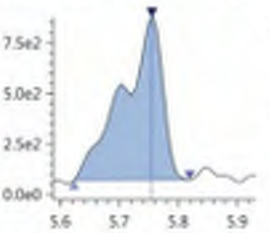
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Conc 5.4414
RT 5.616 Area 817994
Q 514.90>168.90 (-) 3.24e5



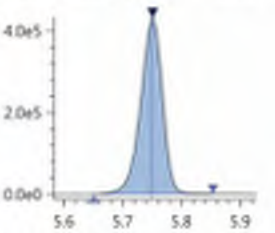
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Conc 5.0000
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ISTD 514.90>168.90 (-) 3.24e5



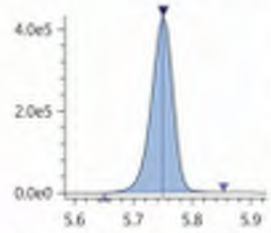
N-EtFOSA
Conc 0.0892
RT 5.755 Area 3848
Q 526.90>169.10 (-) 8.78e2



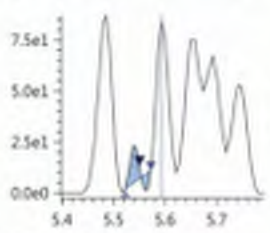
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Conc 5.1630
RT 5.751 Area 1118320
Q 530.90>169.15 (-) 4.34e5



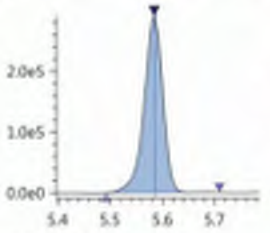
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Conc 5.0000
RT 5.751 Area 1118320
ISTD 530.90>169.15 (-) 4.34e5



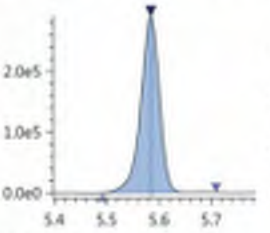
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Conc 0.0001
RT 5.550 Area 13
Q 616.00>59.00 (-) 8.70e1



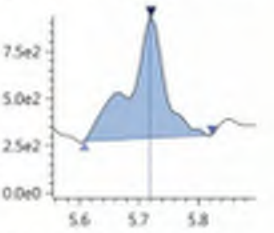
N-MeFOSE-d7
Conc 4.5885
RT 5.584 Area 724449
Q 622.70>59.10 (-) 2.91e5



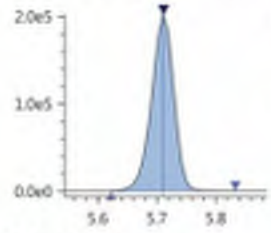
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ISTD 622.70>59.10 (-) 2.91e5



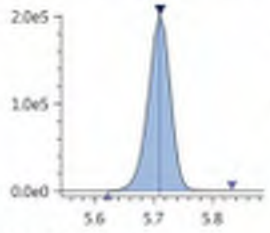
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Conc 0.0118
RT 5.721 Area 2702
Q 630.00>58.90 (-) 9.40e2



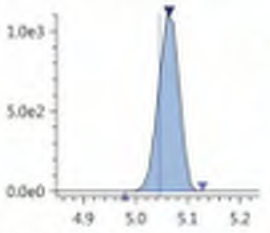
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Conc 4.6750
RT 5.711 Area 534114
Q 638.70>59.10 (-) 2.03e5



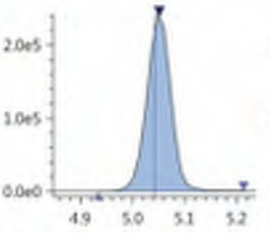
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Conc 5.0000
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ISTD 638.70>59.10 (-) 2.03e5



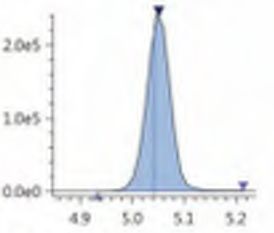
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Conc 0.0240
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Q 570.20>419.00 (-) 1.11e3



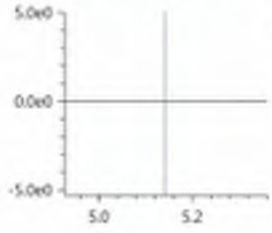
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Conc 5.3153
RT 5.051 Area 780449
Q 572.80>419.05 (-) 2.42e5



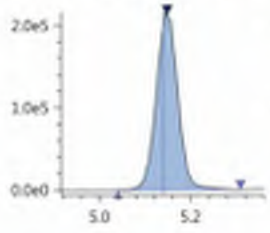
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Conc 5.0000
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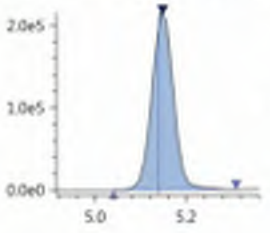
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Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 0.00e0



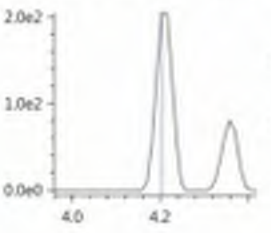
N-EtFOSAA-d5
Conc 5.9364
RT 5.148 Area 709238
Q 588.80>419.00 (-) 2.16e5



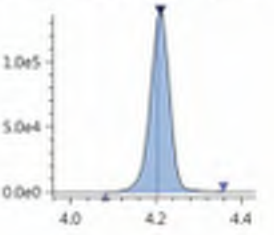
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Conc 5.0000
RT 5.148 Area 709238
ISTD 588.80>419.00 (-) 2.16e5



4_2-FTS_1
Conc ----
RT ---- Area ----
Q 327.00>307.05 (-) 2.05e2



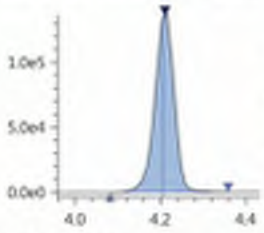
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Conc 4.3279
RT 4.210 Area 435106
Q 328.80>309.05 (-) 1.36e5



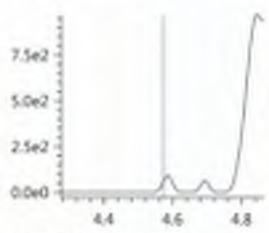
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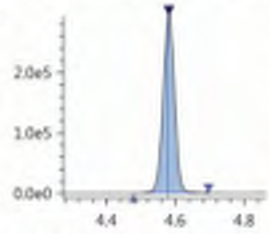
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ISTD 328.80>309.05 (-) 1.36e5



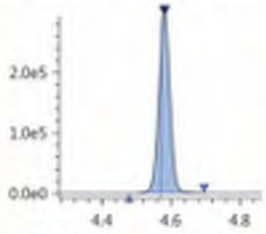
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 (-) 9.68e2



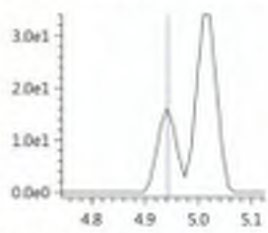
6_2-FTS-13C
Conc 6.3590
RT 4.581 Area 681414
Q 428.90>409.00 (-) 2.94e5



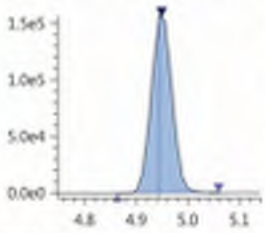
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RT 4.581 Area 681414
ISTD 428.90>409.00 (-) 2.94e5



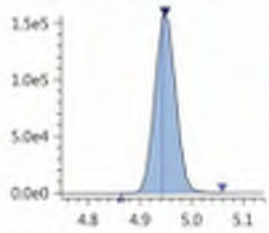
8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 3.40e1



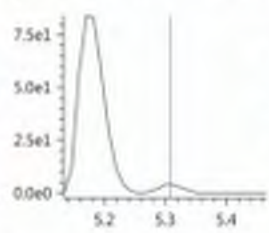
8_2-FTS-13C
Conc 6.7437
RT 4.949 Area 445844
Q 528.80>509.00 (-) 1.57e5



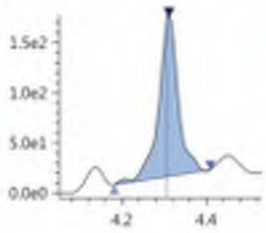
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Conc 5.0000
RT 4.949 Area 445844
ISTD 528.80>509.00 (-) 1.57e5



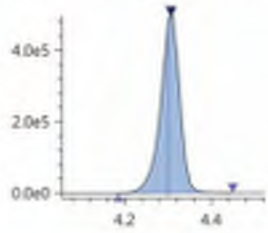
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 (-) 8.40e1



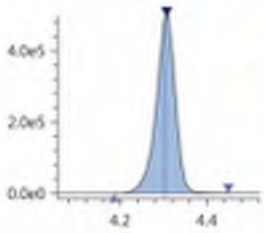
HPFO_DA
Conc 0.0024
RT 4.311 Area 518
Q 329.00>169.00 (-) 1.77e2



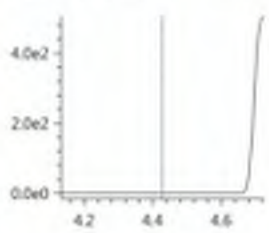
HFPO_DA-13C
Conc 4.5513
RT 4.307 Area 1537467
Q 332.00>286.80 (-) 4.98e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.307 Area 1537467
ISTD 332.00>286.80 (-) 4.98e5



ADONA
Conc ----
RT ---- Area ----
Q 377.00>251.00 (-) 5.06e2



Insight Report

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190920_008

Sample ID: 0.05 PPB ICAL
Date acquired: 9/20/2019 3:38:17 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_008.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.129	6541875	6541875	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.036	20660	1615646	2	0.0481	ng/mL	0.0444
PFBS-13C	Auto	4.037	1615646	6541875	1	5.0595	ng/mL	5.0000
PFBS-13C_IS	Auto	4.037	1615646	1615646	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.254	6280	1615646	2	0.0461	ng/mL	0.0470
PFHxS_1	Auto	4.423	13427	846166	3	0.0568	ng/mL	0.0457
PFHxS-18O	Auto	4.422	846166	6541875	1	4.7478	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.422	846166	846166	3	5.0000	ng/mL	5.0000
PFHpS_1	M	4.584	11083	846166	3	0.0519	ng/mL	0.0477
PFOS_1	Auto	4.757	10808	956747	4	0.0540	ng/mL	0.0465
PFOS-13C	Auto	4.757	956747	6541875	1	5.3850	ng/mL	5.0000
PFOS-13C_IS	Auto	4.757	956747	956747	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.936	5504	956747	4	0.0419	ng/mL	0.0481
PFDS_1	M	5.113	9133	956747	4	0.0499	ng/mL	0.0482
PFDOS	M	5.444	10071	956747	4	0.0486	ng/mL	0.0485
9Cl-PF3ONS	Auto	4.860	64518	956747	4	0.0456	ng/mL	0.0467
11Cl-PF3OUdS	M	5.208	39167	956747	4	0.0460	ng/mL	0.0472
PFBA	Auto	3.445	51138	5050788	5	0.0533	ng/mL	0.0500
PFBA-13C	Auto	3.446	5050788	6541875	1	4.8356	ng/mL	5.0000
PFBA-13C_IS	Auto	3.446	5050788	5050788	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.985	196690	3361192	6	0.0532	ng/mL	0.0500
PFPeA-13C	Auto	3.984	3361192	6541875	1	4.9129	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.984	3361192	3361192	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.234	81378	7110641	7	0.0516	ng/mL	0.0500
PFHxA-13C	Auto	4.238	7110641	6541875	1	4.5052	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.238	7110641	7110641	7	5.0000	ng/mL	5.0000
PFHpA	M	4.418	79327	5978669	8	0.0503	ng/mL	0.0500
PFHpA-13C	Auto	4.419	5978669	6541875	1	4.4803	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.419	5978669	5978669	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.590	124806	8631881	9	0.0518	ng/mL	0.0500
PFOA-13C	Auto	4.590	8631881	6541875	1	5.4832	ng/mL	5.0000
PFOA-13C_IS	Auto	4.590	8631881	8631881	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.768	72910	5914050	10	0.0538	ng/mL	0.0500
PFNA-13C	Auto	4.767	5914050	6541875	1	4.9441	ng/mL	5.0000
PFNA-13C_IS	Auto	4.767	5914050	5914050	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.949	62988	5938831	11	0.0492	ng/mL	0.0500
PFDA-13C	Auto	4.950	5938831	6541875	1	5.6179	ng/mL	5.0000
PFDA-13C_IS	Auto	4.950	5938831	5938831	11	5.0000	ng/mL	5.0000
PFUnA	M	5.129	54344	4429136	12	0.0484	ng/mL	0.0500
PFUnA-13C	Auto	5.129	4429136	6541875	1	4.7317	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.129	4429136	4429136	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.302	61894	8015104	13	0.0501	ng/mL	0.0500
PFDoA-13C	Auto	5.304	8015104	6541875	1	5.2140	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.304	8015104	8015104	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.467	95714	10010045	14	0.0520	ng/mL	0.0500
PFTeDA	M	5.619	180683	10010045	14	0.0500	ng/mL	0.0500
PFTeDA-13C	Auto	5.619	10010045	6541875	1	5.0498	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.619	10010045	10010045	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.955	145339	8616936	15	0.0499	ng/mL	0.0500
13C-PFHxDA	Auto	5.955	8616936	6541875	1	4.7150	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.955	8616936	8616936	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.479	51347	8616936	15	0.0510	ng/mL	0.0500
FOSA	Auto	5.228	36688	2859971	16	0.0566	ng/mL	0.0500
FOSA-13C	Auto	5.230	2859971	6541875	1	4.8092	ng/mL	5.0000
FOSA-13C_IS	Auto	5.230	2859971	2859971	16	5.0000	ng/mL	5.0000
N-MeFOSA	M	5.614	13804	815387	17	0.0581	ng/mL	0.0500
N-MeFOSA-d3	Auto	5.611	815387	6541875	1	4.6470	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.611	815387	815387	17	5.0000	ng/mL	5.0000
N-EtFOSA	M	5.751	3096	1244622	18	0.0693	ng/mL	0.0500
N-EtFOSA-d9	Auto	5.745	1244622	6541875	1	4.9229	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.745	1244622	1244622	18	5.0000	ng/mL	5.0000
N-MeFOSE	M	5.587	13909	872904	19	0.0534	ng/mL	0.0500
N-MeFOSE-d7	Auto	5.580	872904	6541875	1	4.7367	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.580	872904	872904	19	5.0000	ng/mL	5.0000
N-EtFOSE	M	5.716	14999	627019	20	0.0559	ng/mL	0.0500
N-EtFOSE-d9	Auto	5.706	627019	6541875	1	4.7019	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.706	627019	627019	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.048	4834	750590	21	0.0395	ng/mL	0.0500

Insight Report

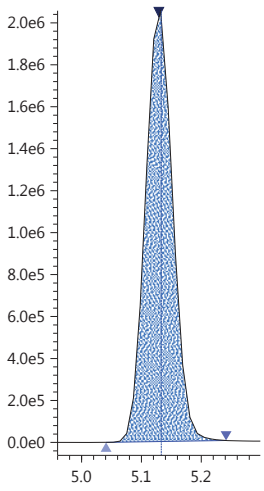
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(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.045	750590	6541875	1	4.3796	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.045	750590	750590	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.142	2833	645847	22	0.0355	ng/mL	0.0500
N-EtFOSAA-d5	Auto	5.142	645847	6541875	1	4.6314	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.142	645847	645847	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.210	5552	637202	23	0.0463	ng/mL	0.0469
4_2-FTS-13C	Auto	4.209	637202	6541875	1	5.4301	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.209	637202	637202	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.578	3877	608934	24	0.0349	ng/mL	0.0476
6_2-FTS-13C	Auto	4.578	608934	6541875	1	4.8685	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.578	608934	608934	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.944	2662	352598	25	0.0509	ng/mL	0.0480
8_2-FTS-13C	Auto	4.945	352598	6541875	1	4.5692	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.945	352598	352598	25	5.0000	ng/mL	5.0000
10_2-FtS_1	M	5.306	2887	352598	25	0.0508	ng/mL	0.0483
HPFO_DA	Auto	4.303	15346	2117642	26	-0.0182	ng/mL	0.0500
HFPO_DA-13C	Auto	4.305	2117642	6541875	1	5.3707	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.305	2117642	2117642	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.431	56525	2117642	26	0.0484	ng/mL	0.0473

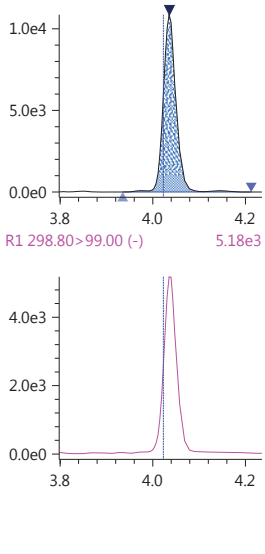
13C7-PFUnDA_IS

Conc 5.0000
RT 5.129 Area 6541875



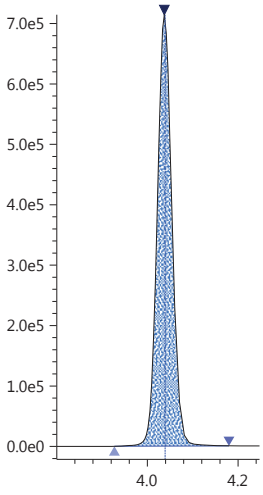
PFBS_1

Conc 0.0481
RT 4.036 Area 20660
R#1 47.64 (0.00)



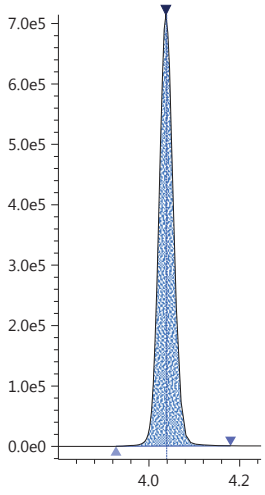
PFBS-13C

Conc 5.0595
RT 4.037 Area 1615646



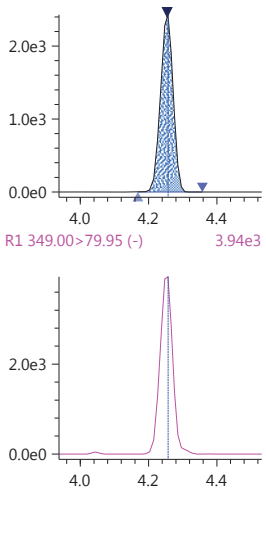
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Conc 5.0000
RT 4.037 Area 1615646



PFPeS

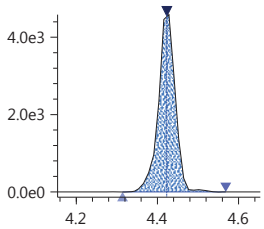
Conc 0.0461
RT 4.254 Area 6280
R#1 170.91 (0.00)



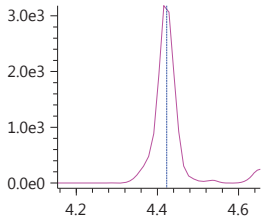
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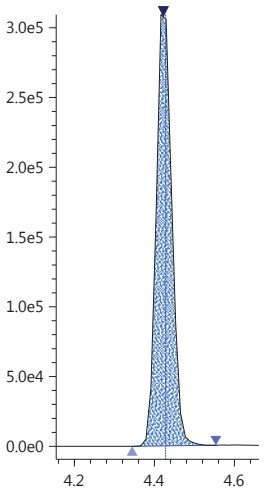
PFHxS_1
Conc 0.0568
RT 4.423 Area 13427
R#1 67.50 (0.00)
Q 399.00>80.00 (-) 4.59e3



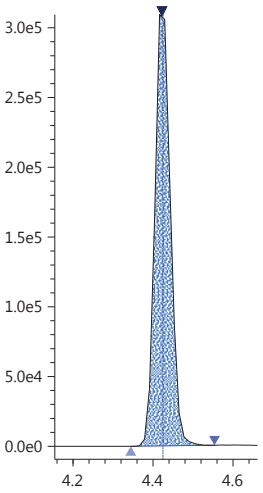
R1 399.00>99.00 (-) 3.18e3



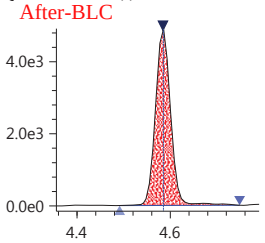
PFHxS-18O
Conc 4.7478
RT 4.422 Area 846166
Q 402.70>84.05 (-) 3.09e5



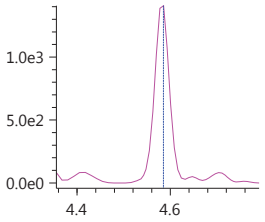
PFHxS-18O_IS
Conc 5.0000
RT 4.422 Area 846166
ISTD 402.70>84.05 (-) 3.09e5



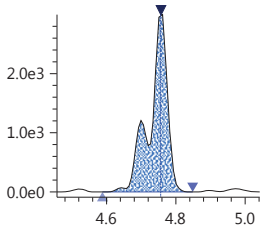
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Conc 0.0519
RT 4.584 Area 11083
R#1 28.51 (0.00)
Q 449.00>80.15 (-) 4.92e3



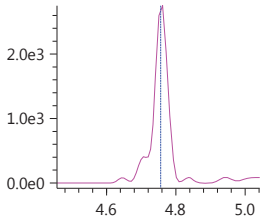
R1 449.00>99.20 (-) 1.41e3



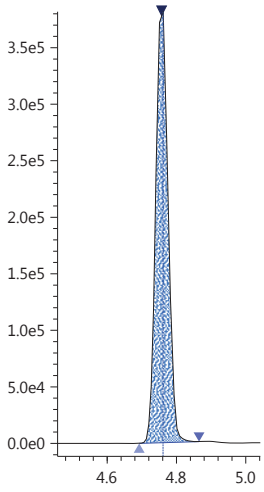
PFOS_1
Conc 0.0540
RT 4.757 Area 10808
R#1 86.76 (0.00)
Q 499.00>80.00 (-) 3.00e3



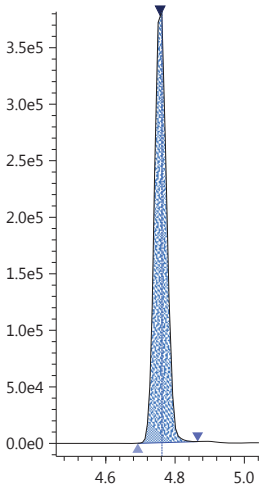
R1 499.00>99.00 (-) 2.75e3



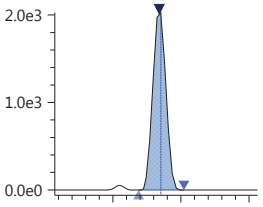
PFOS-13C
Conc 5.3850
RT 4.757 Area 956747
Q 502.80>80.05 (-) 3.82e5



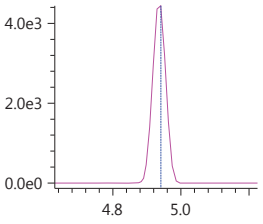
PFOS-13C_IS
Conc 5.0000
RT 4.757 Area 956747
ISTD 502.80>80.05 (-) 3.82e5



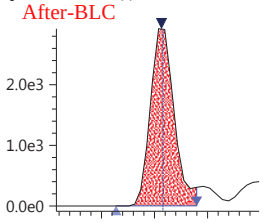
PFNS
Conc 0.0419
RT 4.936 Area 5504
R#1 221.52 (0.00)
Q 549.00>99.00 (-) 2.03e3



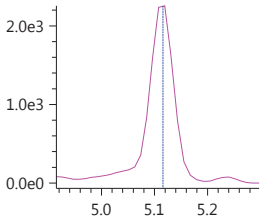
R1 549.00>79.95 (-) 4.44e3



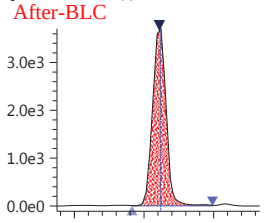
PFDS_1
Conc 0.0499
RT 5.113 Area 9133
R#1 80.66 (0.00)
Q 599.00>79.90 (-) 2.93e3



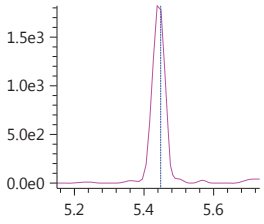
R1 599.00>99.10 (-) 2.26e3



PFDOS
Conc 0.0486
RT 5.444 Area 10071
R#1 47.55 (0.00)
Q 699.00>79.95 (-) 3.71e3



R1 699.00>99.05 (-) 1.82e3



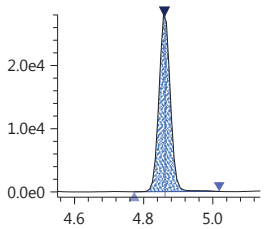
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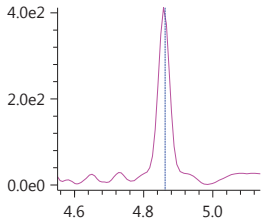
9Cl-PF3ONS

Conc 0.0456
RT 4.860 Area 64518
R#1 1.44 (0.00)

Q 531.00>351.00 (-) 2.81e4



R1 531.00>98.90 (-) 4.12e2

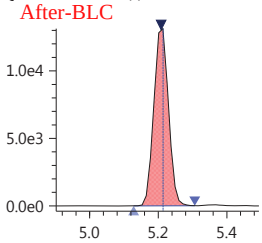


11Cl-PF3OUdS

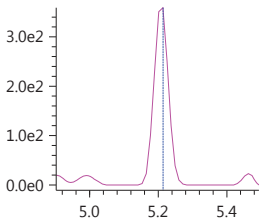
Conc 0.0460
RT 5.208 Area 39167
R#1 2.74 (0.00)

Q 631.00>451.05 (-) 1.31e4

After-BLC



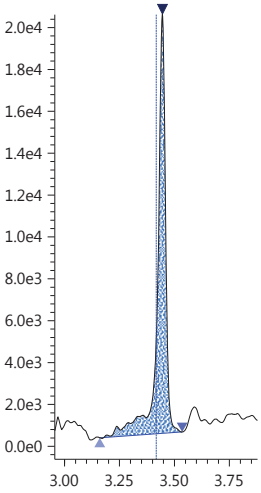
R1 631.00>98.90 (-) 3.59e2



PFBA

Conc 0.0533
RT 3.445 Area 51138

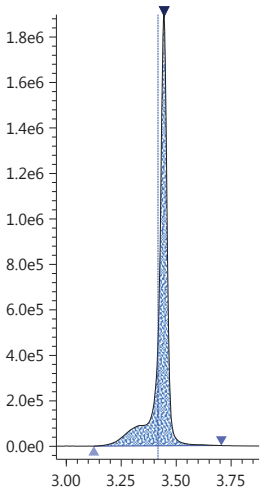
Q 213.00>169.10 (-) 2.06e4



PFBA-13C

Conc 4.8356
RT 3.446 Area 5050788

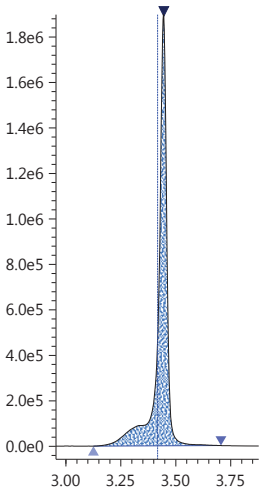
Q 216.90>172.15 (-) 1.90e6



PFBA-13C_IS

Conc 5.0000
RT 3.446 Area 5050788

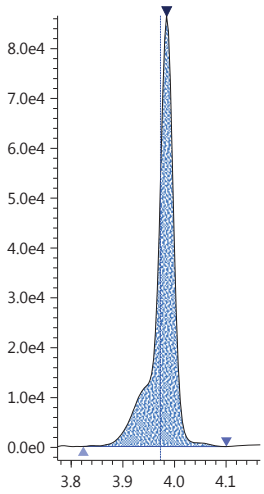
ISTD 216.90>172.15 (-) 1.90e6



PFPeA

Conc 0.0532
RT 3.985 Area 196690

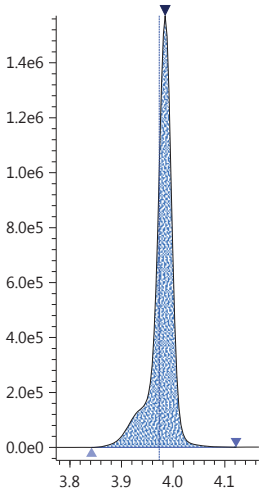
Q 263.05>219.10 (-) 8.66e4



PFPeA-13C

Conc 4.9129
RT 3.984 Area 3361192

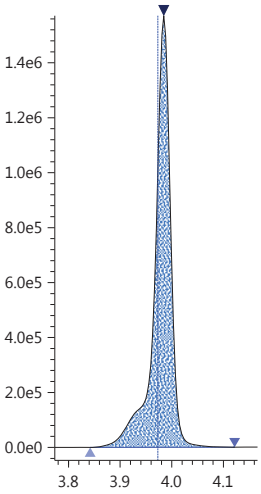
Q 267.90>223.00 (-) 1.57e6



PFPeA-13C_IS

Conc 5.0000
RT 3.984 Area 3361192

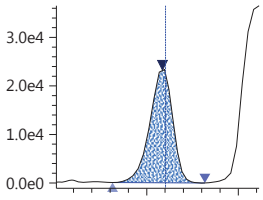
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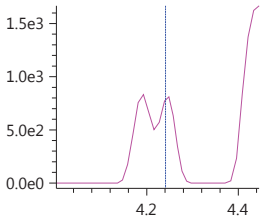
PFHxA

Conc 0.0516
RT 4.234 Area 81378
R#1 2.73 (0.00)

Q 313.00>269.00 (-) 3.65e4



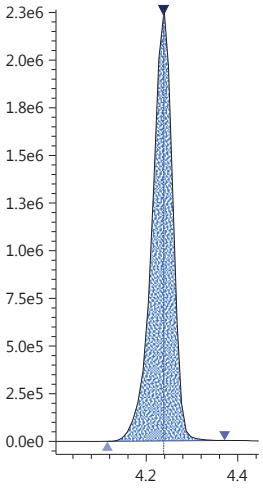
R1 313.00>119.10 (-) 1.67e3



PFHxA-13C

Conc 4.5052
RT 4.238 Area 7110641

Q 314.90>270.10 (-) 2.26e6



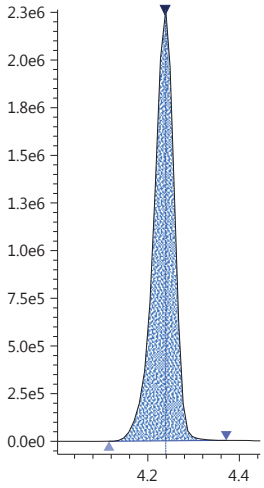
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PFHxA-13C_IS

Conc 5.0000
RT 4.238 Area 7110641

ISTD 314.90>270.10 (-) 2.26e6

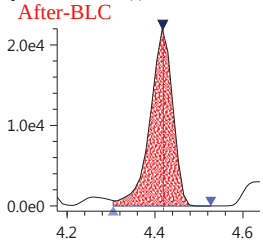


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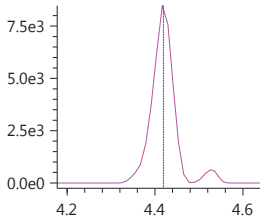
Conc 0.0503
RT 4.418 Area 79327
R#1 36.76 (0.00)

Q 362.90>319.00 (-) 2.20e4

After-BLC



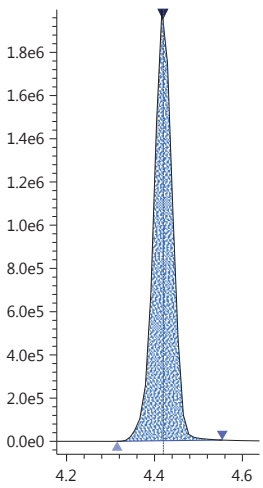
R1 362.90>169.00 (-) 8.48e3



PFHpA-13C

Conc 4.4803
RT 4.419 Area 5978669

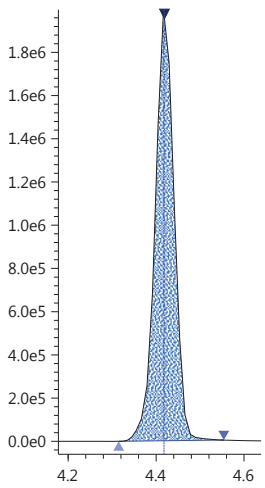
Q 366.90>322.10 (-) 2.00e6



PFHpA-13C_IS

Conc 5.0000
RT 4.419 Area 5978669

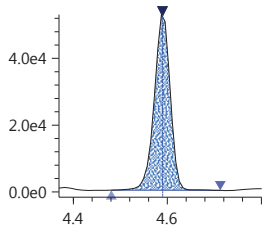
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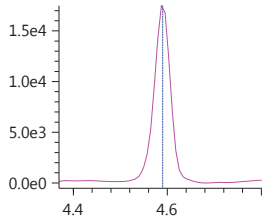
PFOA

Conc 0.0518
RT 4.590 Area 124806
R#1 33.02 (0.00)

Q 413.00>369.00 (-) 5.31e4



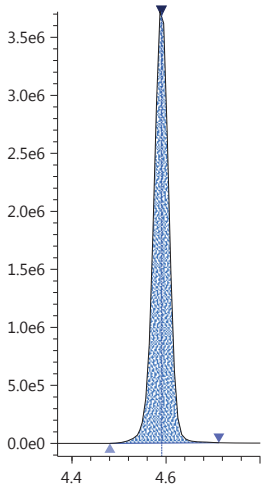
R1 413.00>169.10 (-) 1.75e4



PFOA-13C

Conc 5.4832
RT 4.590 Area 8631881

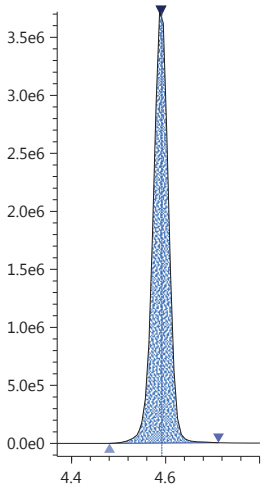
Q 416.80>372.05 (-) 3.72e6



PFOA-13C_IS

Conc 5.0000
RT 4.590 Area 8631881

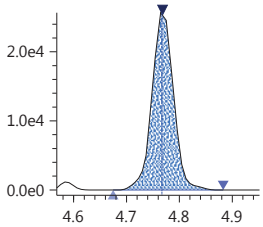
ISTD 416.80>372.05 (-) 3.72e6



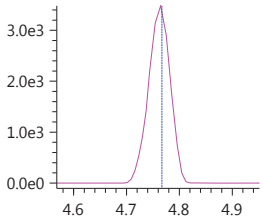
PFNA

Conc 0.0538
RT 4.768 Area 72910
R#1 13.63 (0.00)

Q 463.00>418.90 (-) 2.57e4



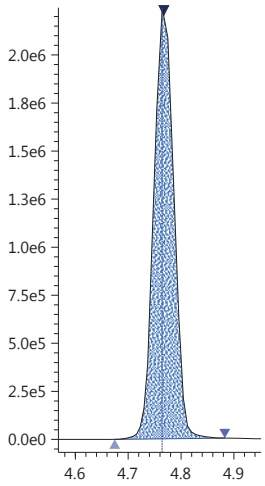
R1 463.00>219.00 (-) 3.48e3



PFNA-13C

Conc 4.9441
RT 4.767 Area 5914050

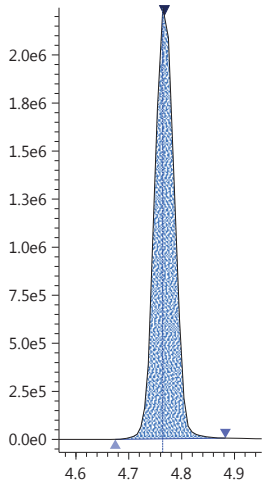
Q 467.80>423.00 (-) 2.25e6



PFNA-13C_IS

Conc 5.0000
RT 4.767 Area 5914050

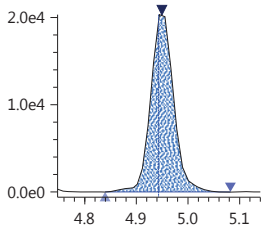
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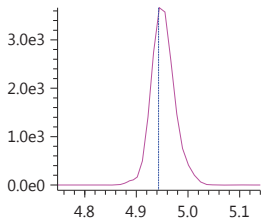
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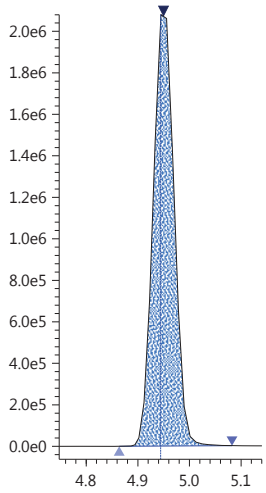
PFDA
Conc 0.0492
RT 4.949 Area 62988
R#1 17.83 (0.00)
Q 513.00>468.80 (-) 2.03e4



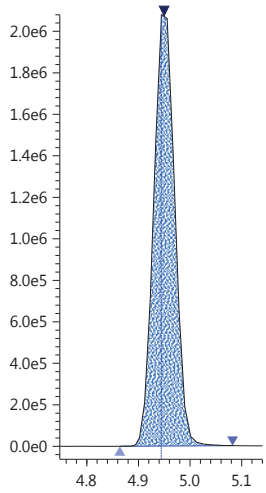
R1 513.00>219.10 (-) 3.67e3



PFDA-13C
Conc 5.6179
RT 4.950 Area 5938831
Q 514.80>469.95 (-) 2.08e6

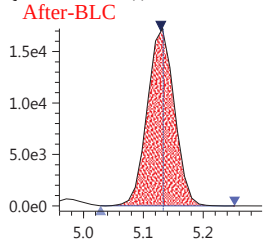


PFDA-13C_IS
Conc 5.0000
RT 4.950 Area 5938831
ISTD 514.80>469.95 (-) 2.08e6

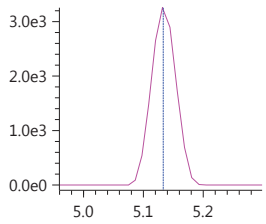


PFUnA
Conc 0.0484
RT 5.129 Area 54344
R#1 19.22 (0.00)
Q 563.00>518.90 (-) 1.72e4

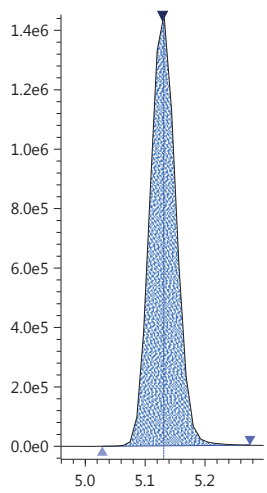
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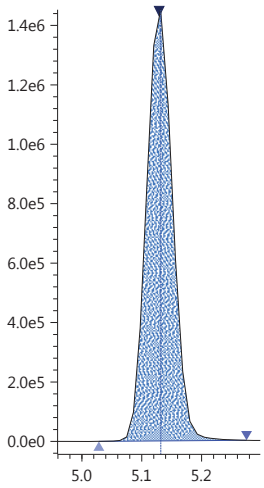
R1 563.00>219.00 (-) 3.26e3



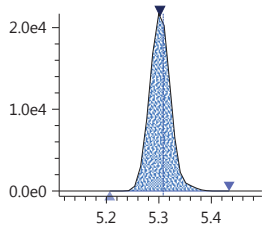
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Conc 4.7317
RT 5.129 Area 4429136
Q 564.80>519.95 (-) 1.45e6



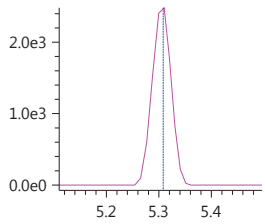
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Conc 5.0000
RT 5.129 Area 4429136
ISTD 564.80>519.95 (-) 1.45e6



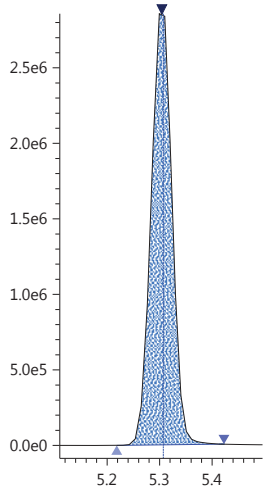
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Conc 0.0501
RT 5.302 Area 61894
R#1 10.87 (0.00)
Q 613.05>569.00 (-) 2.17e4



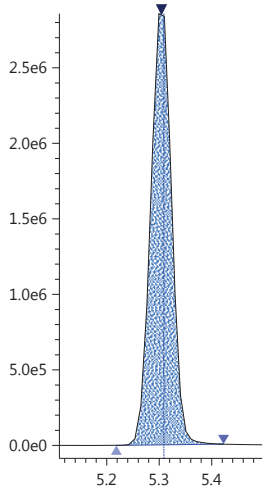
R1 613.05>169.00 (-) 2.48e3



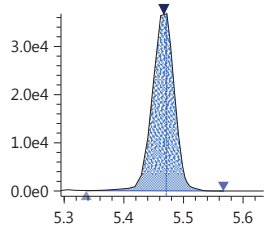
PFDoA-13C
Conc 5.2140
RT 5.304 Area 8015104
Q 614.80>569.95 (-) 2.86e6



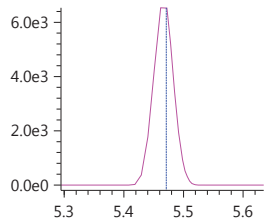
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Conc 5.0000
RT 5.304 Area 8015104
ISTD 614.80>569.95 (-) 2.86e6



PFTrDA
Conc 0.0520
RT 5.467 Area 95714
R#1 17.84 (0.00)
Q 663.00>618.90 (-) 3.68e4



R1 662.90>169.00 (-) 6.53e3



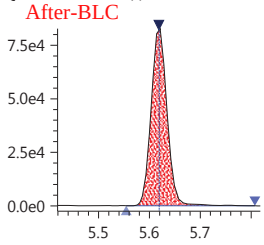
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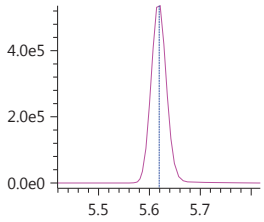
PFTeDA

Conc 0.0500
RT 5.619 Area 180683
R#1 646.77 (0.00)

Q 713.40>669.00 (-) 8.28e4



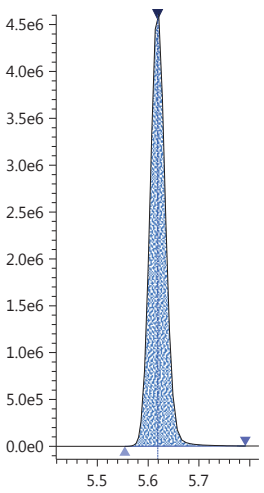
R1 713.40>169.10 (-) 5.36e5



PFTeDA-13C

Conc 5.0498
RT 5.619 Area 10010045

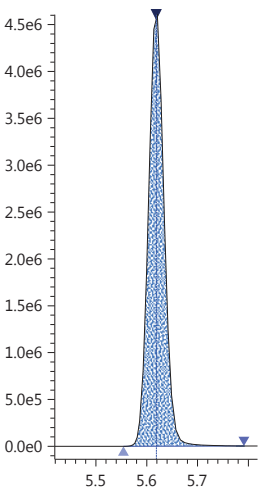
Q 714.70>669.90 (-) 4.61e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.619 Area 10010045

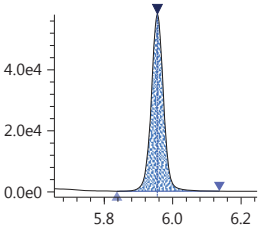
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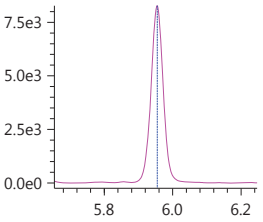
PFHxDA

Conc 0.0499
RT 5.955 Area 145339
R#1 14.63 (0.00)

Q 813.00>769.05 (-) 5.81e4



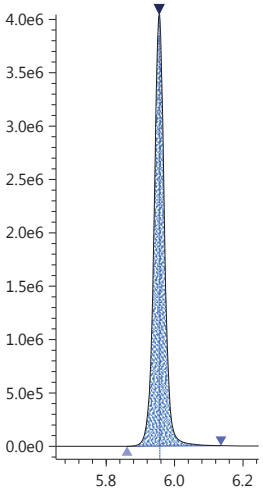
R1 813.00>218.95 (-) 8.27e3



13C-PFHxDA

Conc 4.7150
RT 5.955 Area 8616936

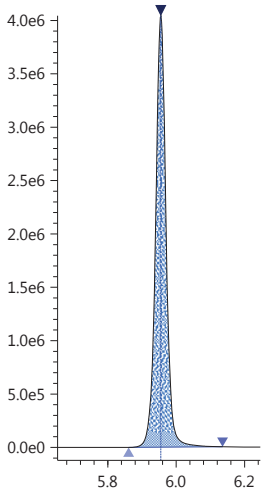
Q 815.00>770.05 (-) 4.04e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.955 Area 8616936

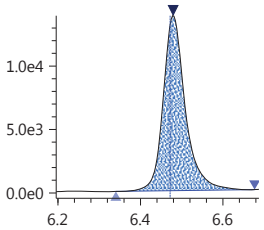
ISTD 815.00>770.05 (-) 4.04e6



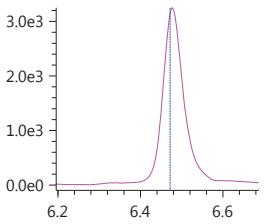
PFODA

Conc 0.0510
RT 6.479 Area 51347
R#1 23.84 (0.00)

Q 913.00>868.85 (-) 1.40e4



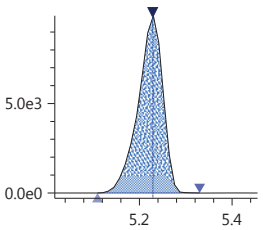
R1 913.00>169.00 (-) 3.25e3



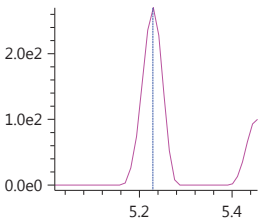
FOSA

Conc 0.0566
RT 5.228 Area 36688
R#1 2.71 (0.00)

Q 498.20>78.00 (-) 9.91e3



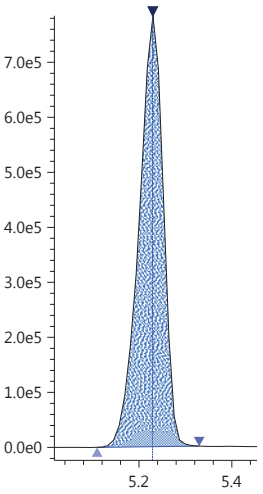
R1 498.20>64.10 (-) 2.70e2



FOSA-13C

Conc 4.8092
RT 5.230 Area 2859971

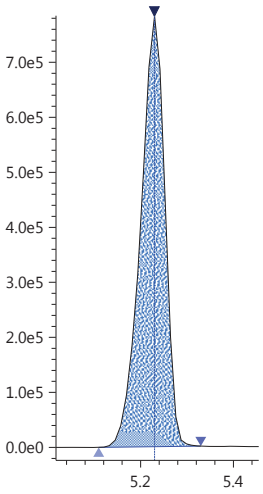
Q 506.00>78.05 (-) 7.85e5



FOSA-13C_IS

Conc 5.0000
RT 5.230 Area 2859971

ISTD 506.00>78.05 (-) 7.85e5



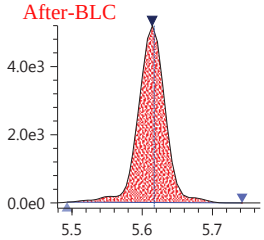
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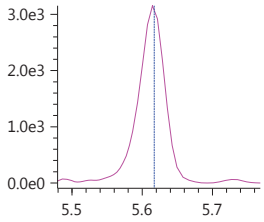
N-MeFOSA

Conc 0.0581
RT 5.614 Area 13804
R#1 59.77 (0.00)

Q 512.00>169.10 (-) 5.20e3



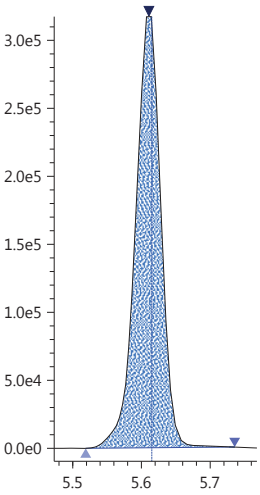
R1 512.00>219.00 (-) 3.15e3



N-MeFOSA-d3

Conc 4.6470
RT 5.611 Area 815387

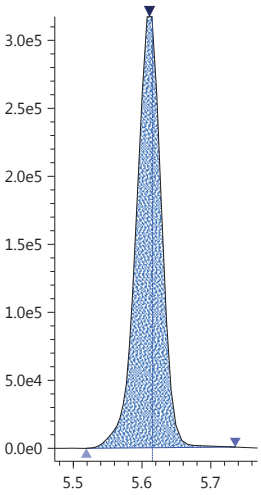
Q 514.90>168.90 (-) 3.17e5



N-MeFOSA-d3_IS

Conc 5.0000
RT 5.611 Area 815387

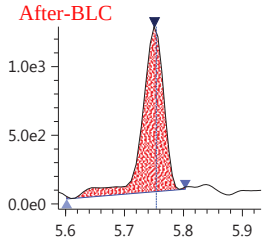
ISTD 514.90>168.90 (-) 3.17e5



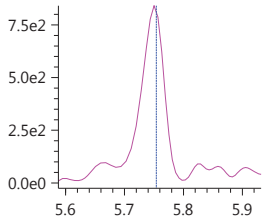
N-EtFOSA

Conc 0.0693
RT 5.751 Area 3096
R#1 70.11 (0.00)

Q 526.90>169.10 (-) 1.29e3



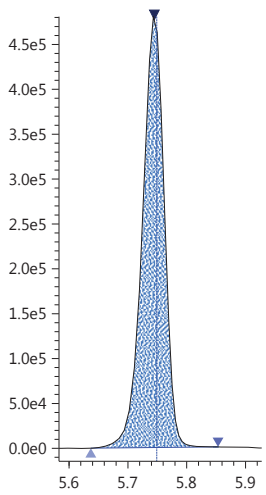
R1 526.90>219.00 (-) 8.41e2



N-EtFOSA-d9

Conc 4.9229
RT 5.745 Area 1244622

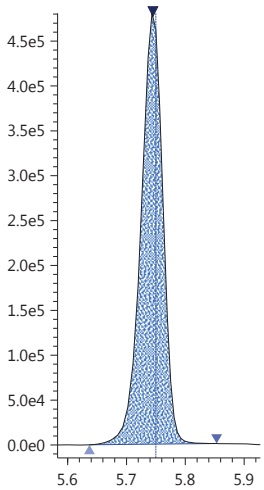
Q 530.90>169.15 (-) 4.81e5



N-EtFOSA-d9_IS

Conc 5.0000
RT 5.745 Area 1244622

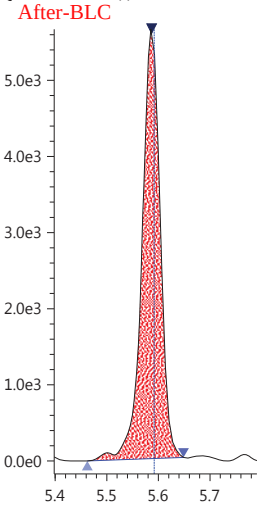
ISTD 530.90>169.15 (-) 4.81e5



N-MeFOSE

Conc 0.0534
RT 5.587 Area 13909

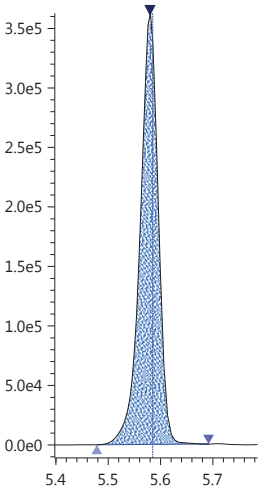
Q 616.00>59.00 (-) 5.67e3



N-MeFOSE-d7

Conc 4.7367
RT 5.580 Area 872904

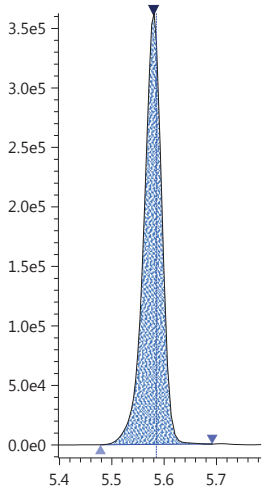
Q 622.70>59.10 (-) 3.63e5



N-MeFOSE-d7_IS

Conc 5.0000
RT 5.580 Area 872904

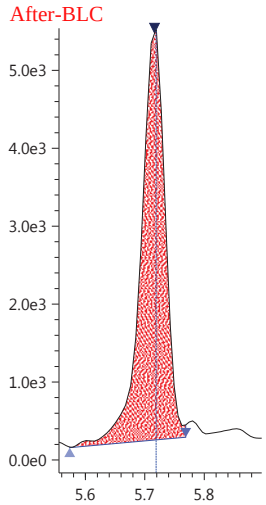
ISTD 622.70>59.10 (-) 3.63e5



N-EtFOSE

Conc 0.0559
RT 5.716 Area 14999

Q 630.00>58.90 (-) 5.54e3

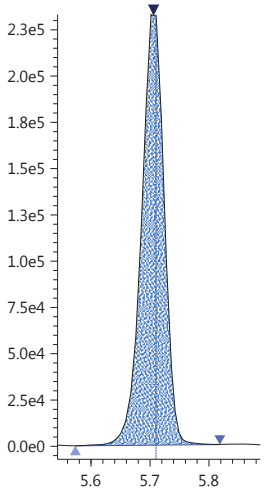


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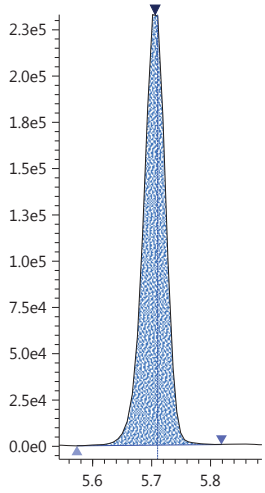
N-EtFOSE-d9
Conc 4.7019
RT 5.706 Area 627019

Q 638.70>59.10 (-) 2.33e5



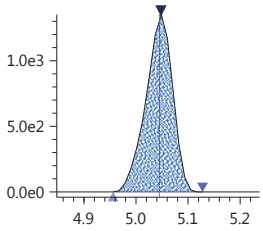
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.706 Area 627019

ISTD 638.70>59.10 (-) 2.33e5

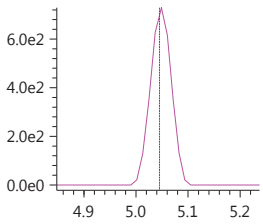


N-MeFOSAA
Conc 0.0395
RT 5.048 Area 4834
R#1 54.18 (0.00)

Q 570.20>419.00 (-) 1.35e3

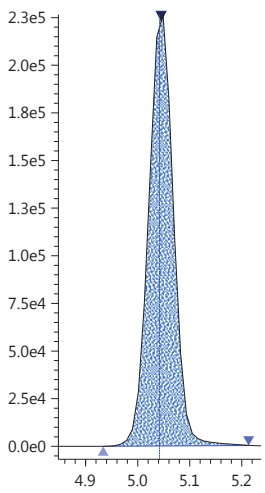


R1 570.20>512.00 (-) 7.29e2



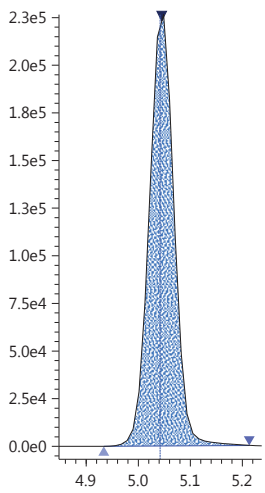
N-MeFOSAA-d3
Conc 4.3796
RT 5.045 Area 750590

Q 572.80>419.05 (-) 2.27e5



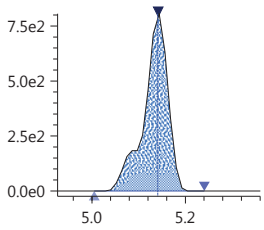
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.045 Area 750590

ISTD 572.80>419.05 (-) 2.27e5

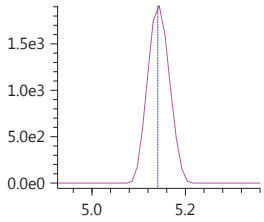


N-EtFOSAA
Conc 0.0355
RT 5.142 Area 2833
R#1 240.99 (0.00)

Q 584.20>418.95 (-) 8.06e2

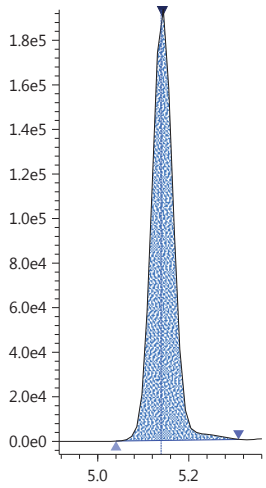


R1 584.20>526.10 (-) 1.91e3



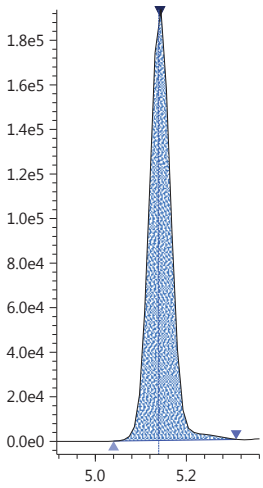
N-EtFOSAA-d5
Conc 4.6314
RT 5.142 Area 645847

Q 588.80>419.00 (-) 1.94e5



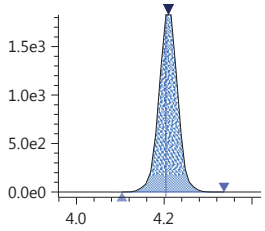
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.142 Area 645847

ISTD 588.80>419.00 (-) 1.94e5

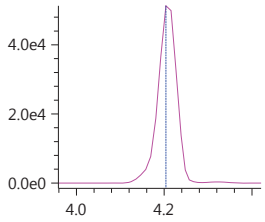


4_2-FTS_1
Conc 0.0463
RT 4.210 Area 5552
R#1 2796.65 (0.00)

Q 327.00>307.05 (-) 1.83e3

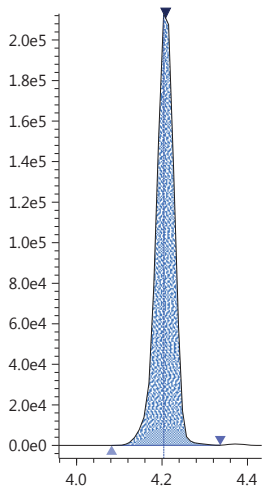


R1 327.00>81.10 (-) 5.13e4



4_2-FTS-13C
Conc 5.4301
RT 4.209 Area 637202

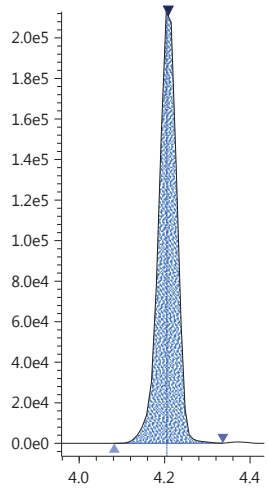
Q 328.80>309.05 (-) 2.13e5



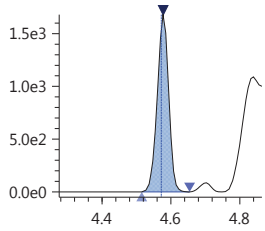
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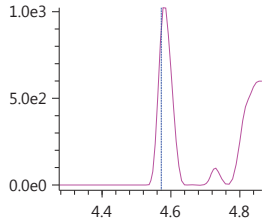
4_2-FTS-13C_IS
Conc 5.0000
RT 4.209 Area 637202
ISTD 328.80>309.05 (-) 2.13e5



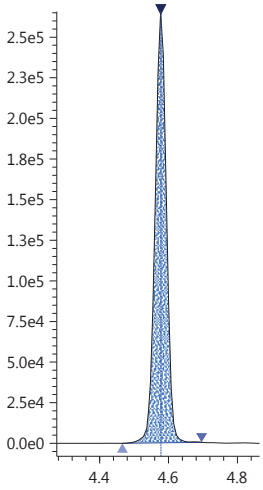
6_2-FTS_1
Conc 0.0349
RT 4.578 Area 3877
R#1 60.94 (0.00)
Q 427.00>407.00 (-) 1.68e3



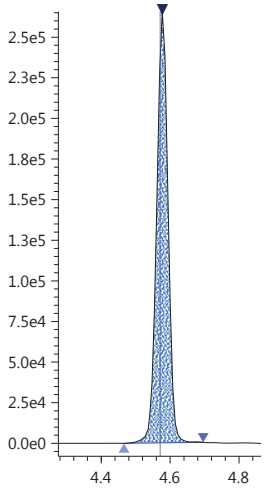
R1 427.00>80.90 (-) 1.02e3



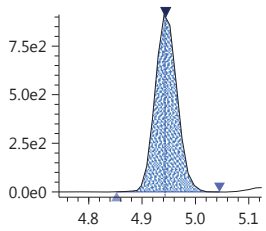
6_2-FTS-13C
Conc 4.8685
RT 4.578 Area 608934
Q 428.90>409.00 (-) 2.66e5



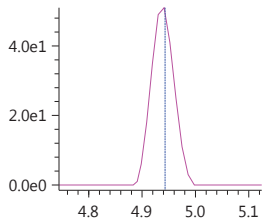
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Conc 5.0000
RT 4.578 Area 608934
ISTD 428.90>409.00 (-) 2.66e5



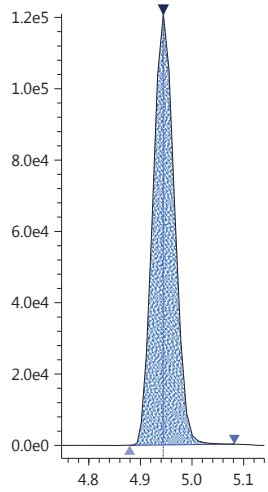
8_2-FTS_1
Conc 0.0509
RT 4.944 Area 2662
R#1 5.71 (0.00)
Q 527.10>506.90 (-) 9.12e2



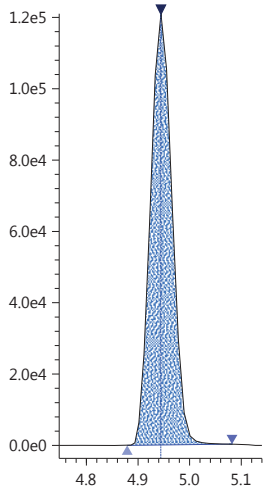
R1 527.20>487.00 (-) 5.10e1



8_2-FTS-13C
Conc 4.5692
RT 4.945 Area 352598
Q 528.80>509.00 (-) 1.21e5

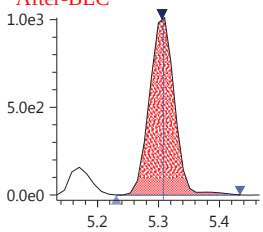


8_2-FTS-13C_IS
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RT 4.945 Area 352598
ISTD 528.80>509.00 (-) 1.21e5

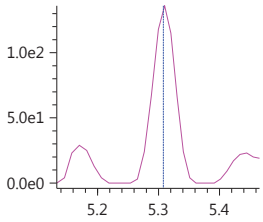


10_2-FtS_1
Conc 0.0508
RT 5.306 Area 2887
R#1 10.99 (0.00)
Q 627.00>606.95 (-) 1.01e3

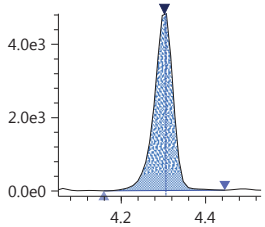
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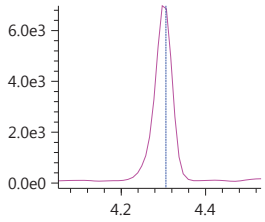
R1 627.00>81.25 (-) 1.36e2



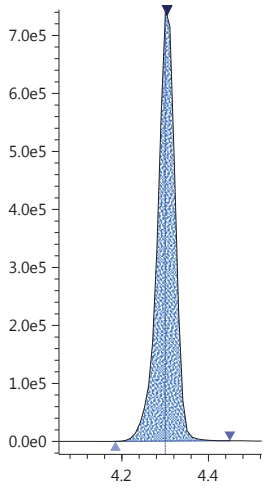
HPFO_DA
Conc -0.0182
RT 4.303 Area 15346
R#1 143.63 (0.00)
Q 329.00>169.00 (-) 4.84e3



R1 329.00>285.10 (-) 6.97e3



HFPO_DA-13C
Conc 5.3707
RT 4.305 Area 2117642
Q 332.00>286.80 (-) 7.44e5

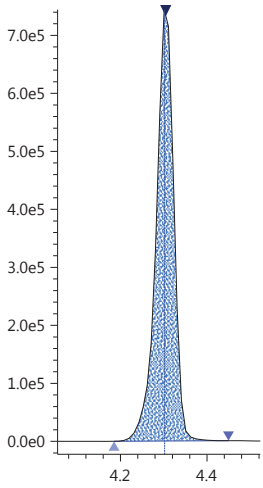


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HFPO_DA-13C_IS

Conc 5.0000
RT 4.305 Area 2117642

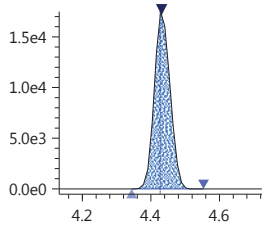
ISTD 332.00>286.80 (-) 7.44e5



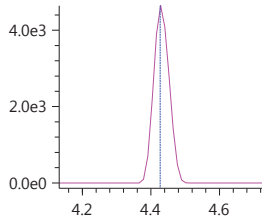
ADONA

Conc 0.0484
RT 4.431 Area 56525
R#1 26.72 (0.00)

Q 377.00>251.00 (-) 1.75e4



R1 377.00>84.95 (-) 4.64e3



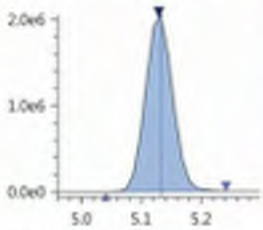
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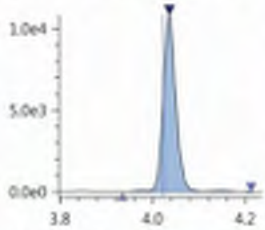
190920_008

Sample ID: 0.05 PPB ICAL
Date acquired: 9/20/2019 3:38:17 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_008.lcd
Vial: 1 | Inj. Volume: 15.0000uL | Tray: 0

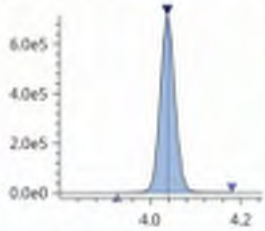
13C7-PFUnDA_IS
Conc 5.0000
RT 5.129 Area 6541875
ISTD 570.00>525.00 (-) 2.06e6



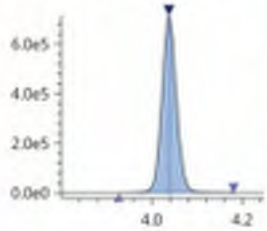
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Conc 0.0480
RT 4.036 Area 20660
Q 299.00>80.00 (-) 1.09e4



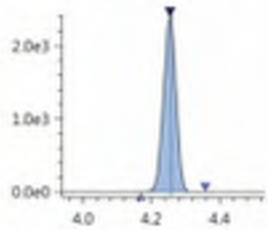
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RT 4.037 Area 1615646
Q 301.80>80.00 (-) 7.15e5



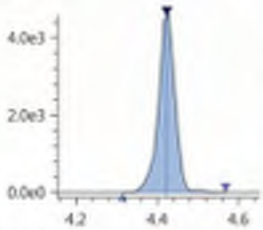
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RT 4.037 Area 1615646
ISTD 301.80>80.00 (-) 7.15e5



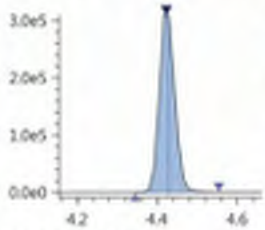
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Conc 0.0459
RT 4.254 Area 6280
Q 349.00>99.00 (-) 2.43e3



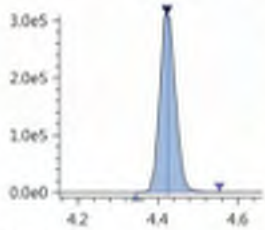
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Conc 0.0561
RT 4.423 Area 13427
Q 399.00>80.00 (-) 4.59e3



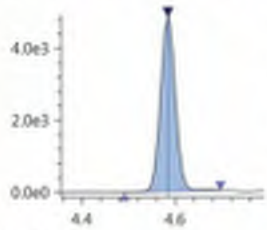
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Conc 4.6429
RT 4.422 Area 846166
Q 402.70>84.05 (-) 3.09e5



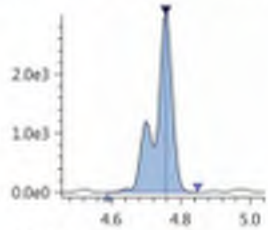
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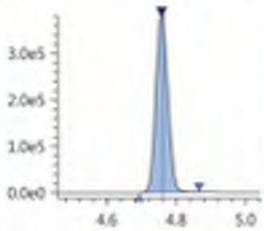
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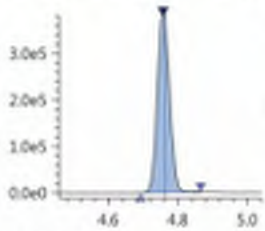
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Conc 0.0536
RT 4.757 Area 10808
Q 499.00>80.00 (-) 3.00e3



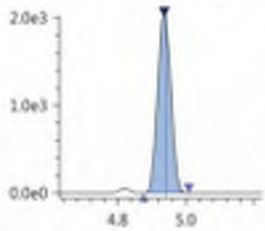
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RT 4.757 Area 956747
Q 502.80>80.05 (-) 3.82e5



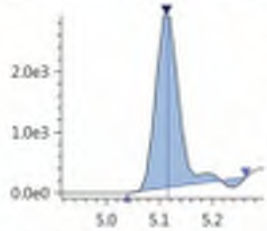
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RT 4.757 Area 956747
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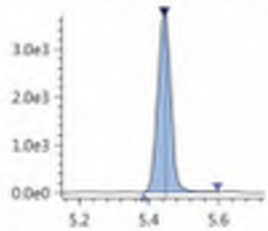
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Q 549.00>99.00 (-) 2.03e3



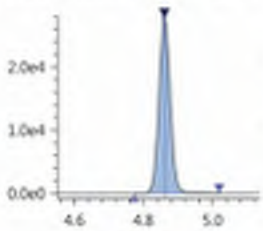
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Q 599.00>79.90 (-) 2.93e3



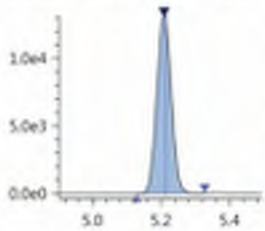
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Q 699.00>79.95 (-) 3.71e3



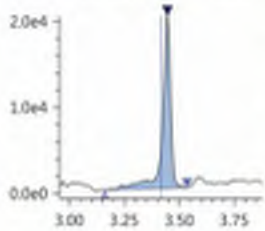
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Q 531.00>351.00 (-) 2.81e4



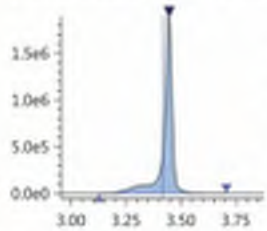
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Q 631.00>451.05 (-) 1.31e4



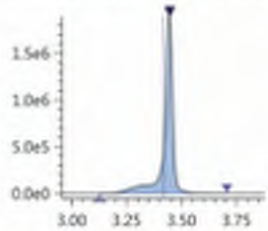
PFBA
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RT 3.445 Area 51138
Q 213.00>169.10 (-) 2.06e4



PFBA-13C
Conc 4.8356
RT 3.446 Area 5050788
Q 216.90>172.15 (-) 1.90e6



PFBA-13C_IS
Conc 5.0000
RT 3.446 Area 5050788
ISTD 216.90>172.15 (-) 1.90e6

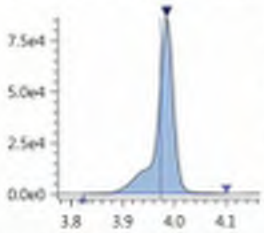


Manual Integration - Before

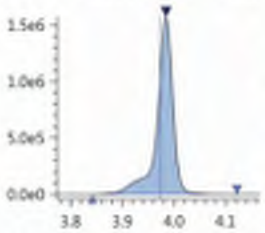
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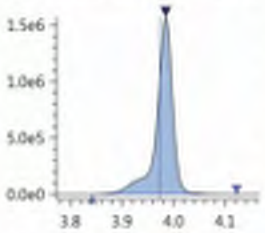
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Conc 0.0524
RT 3.985 Area 196690
Q 263.05>219.10 (-) 8.66e4



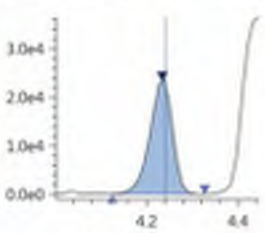
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Q 267.90>223.00 (-) 1.57e6



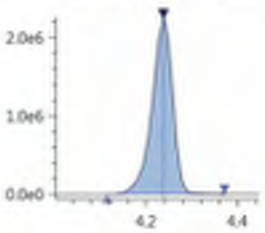
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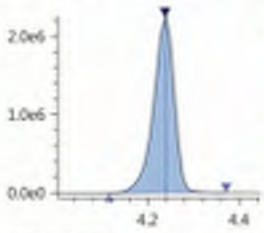
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Q 313.00>269.00 (-) 3.65e4



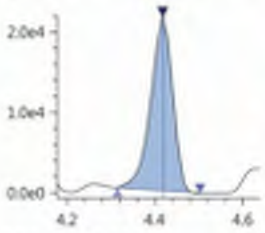
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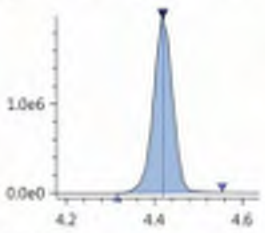
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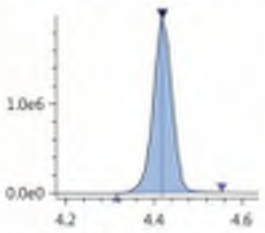
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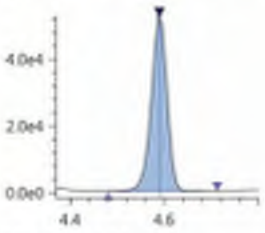
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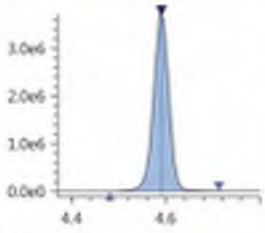
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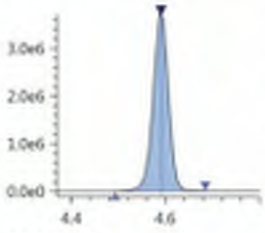
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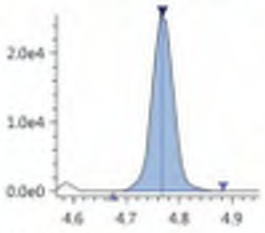
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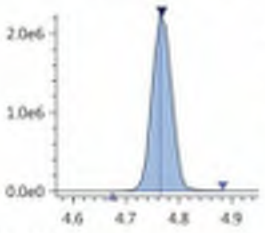
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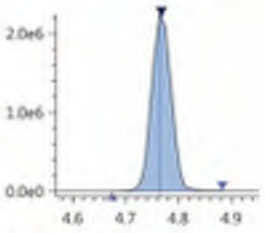
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Q 463.00>418.90 (-) 2.57e4



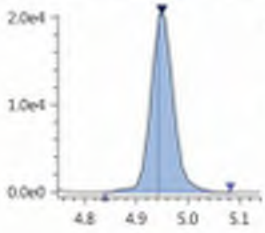
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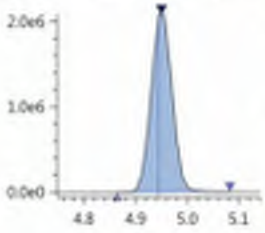
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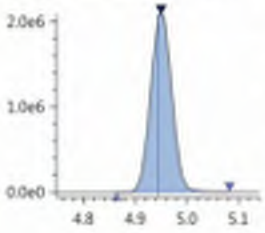
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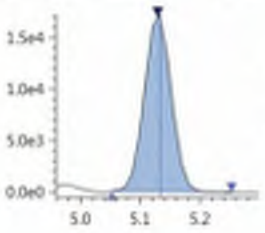
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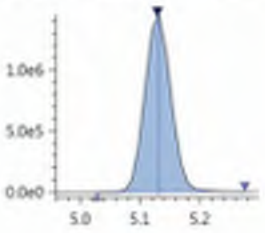
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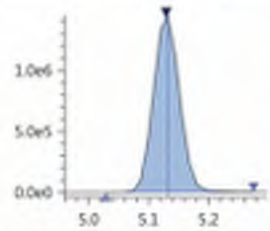


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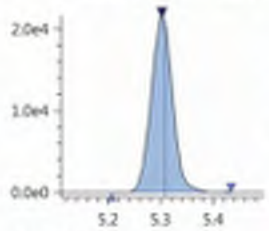
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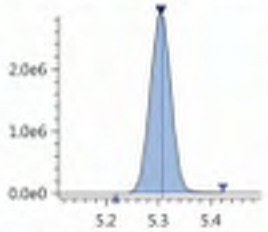
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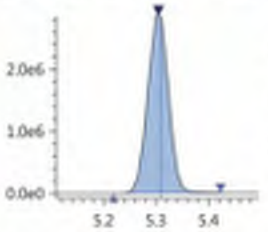
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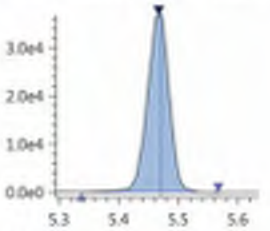
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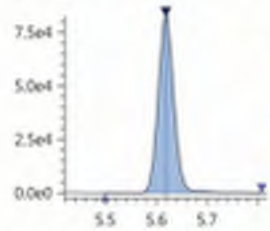
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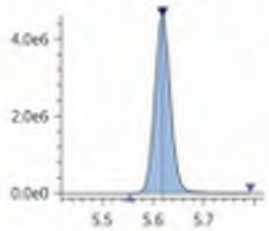
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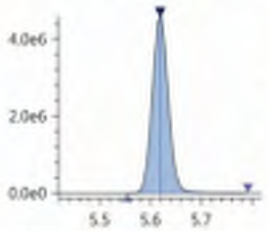
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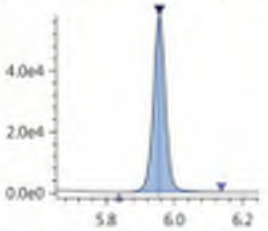
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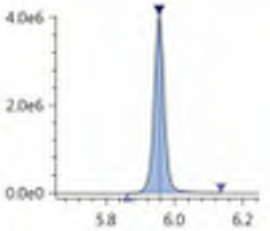
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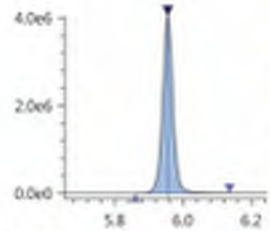
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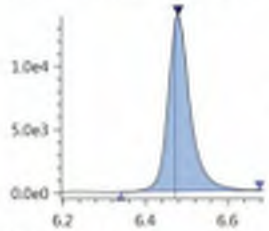
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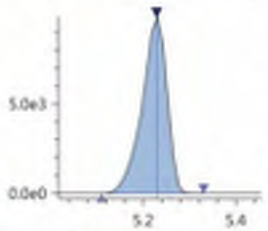
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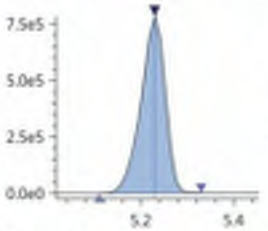
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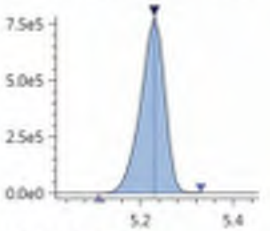
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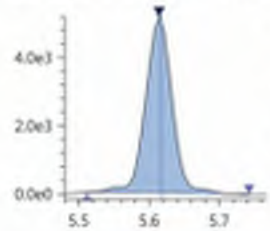
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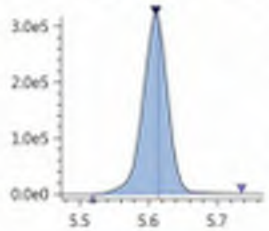
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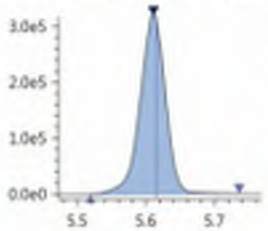
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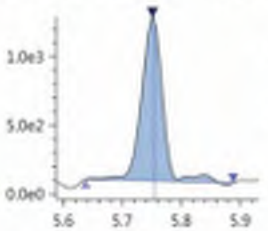
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Q 514.90>168.90 (-) 3.17e5



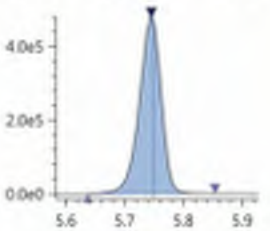
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ISTD 514.90>168.90 (-) 3.17e5



N-EtFOSA
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RT 5.751 Area 2962
Q 526.90>169.10 (-) 1.29e3



N-EtFOSA-d9
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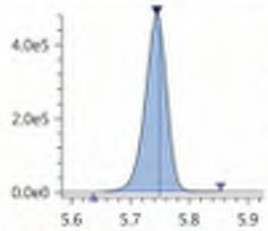


Manual Integration - Before

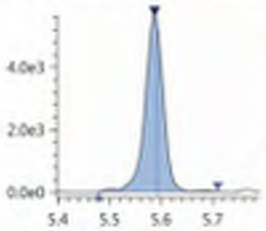
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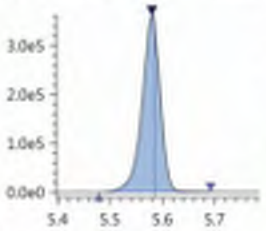
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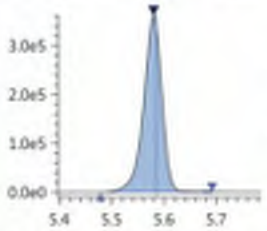
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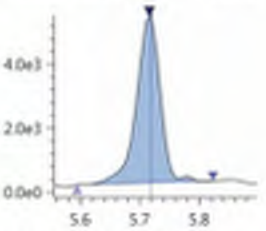
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Q 622.70>59.10 (-) 3.63e5



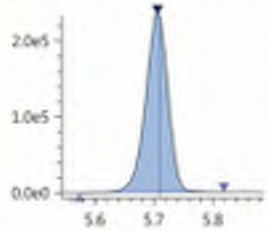
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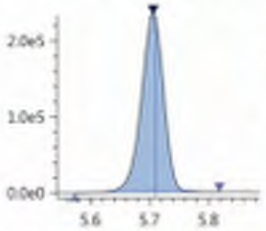
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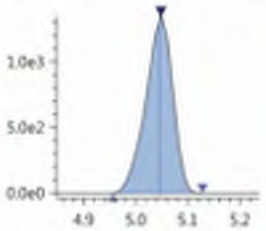
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Conc 4.7019
RT 5.706 Area 627019
Q 638.70>59.10 (-) 2.33e5



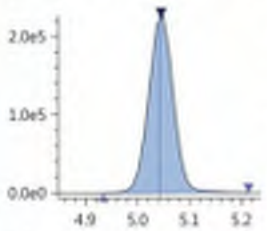
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.706 Area 627019
ISTD 638.70>59.10 (-) 2.33e5



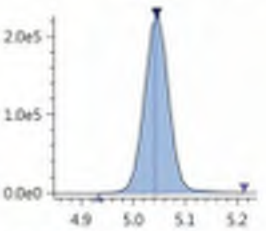
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Conc 0.0390
RT 5.048 Area 4834
Q 570.20>419.00 (-) 1.35e3



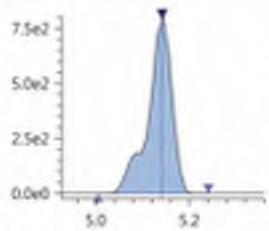
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Conc 4.3796
RT 5.045 Area 750590
Q 572.80>419.05 (-) 2.27e5



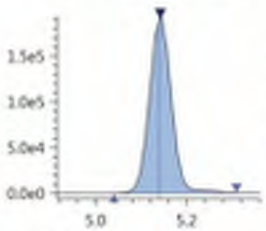
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Conc 5.0000
RT 5.045 Area 750590
ISTD 572.80>419.05 (-) 2.27e5



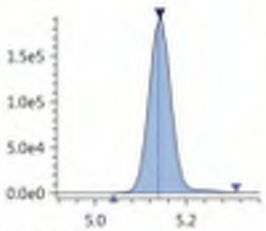
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Conc 0.0350
RT 5.142 Area 2833
Q 584.20>418.95 (-) 8.06e2



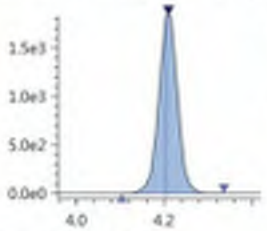
N-EtFOSAA-d5
Conc 4.6314
RT 5.142 Area 645847
Q 588.80>419.00 (-) 1.94e5



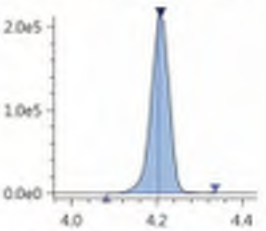
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Conc 5.0000
RT 5.142 Area 645847
ISTD 588.80>419.00 (-) 1.94e5



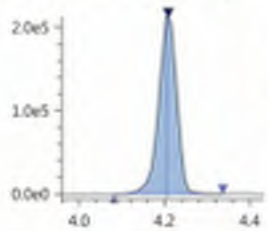
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RT 4.210 Area 5552
Q 327.00>307.05 (-) 1.83e3



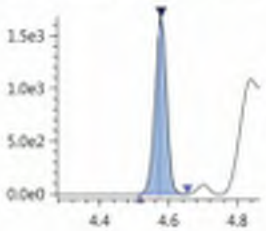
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Conc 5.4301
RT 4.209 Area 637202
Q 328.80>309.05 (-) 2.13e5



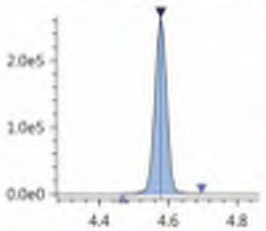
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ISTD 328.80>309.05 (-) 2.13e5



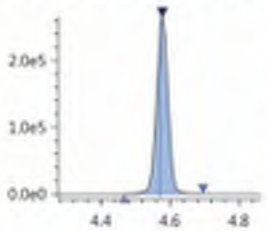
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Conc 0.0343
RT 4.578 Area 3877
Q 427.00>407.00 (-) 1.68e3



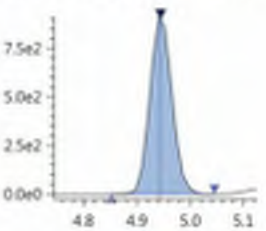
6_2-FTS-13C
Conc 4.8685
RT 4.578 Area 608934
Q 428.90>409.00 (-) 2.66e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.578 Area 608934
ISTD 428.90>409.00 (-) 2.66e5



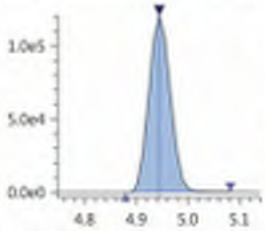
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Conc 0.0505
RT 4.944 Area 2662
Q 527.10>506.90 (-) 9.12e2



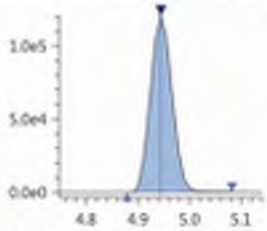
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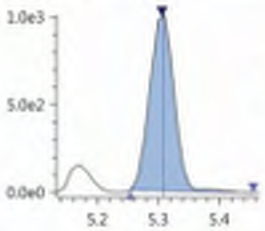
8_2-FTS-13C
Conc 4.5692
RT 4.945 Area 352598
Q 528.80>509.00 (-) 1.21e5



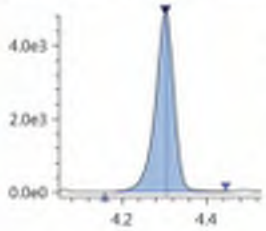
8_2-FTS-13C_IS
Conc 5.0000
RT 4.945 Area 352598
ISTD 528.80>509.00 (-) 1.21e5



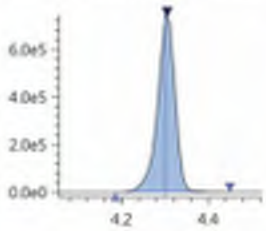
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Conc 0.0495
RT 5.306 Area 2797
Q 627.00>606.95 (-) 1.01e3



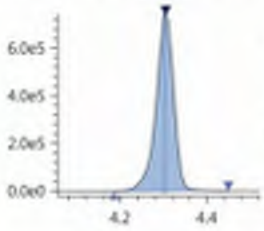
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Conc 0.0523
RT 4.303 Area 15346
Q 329.00>169.00 (-) 4.84e3



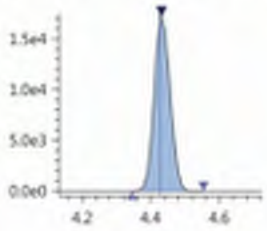
HFPO_DA-13C
Conc 5.3707
RT 4.305 Area 2117642
Q 332.00>286.80 (-) 7.44e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 2117642
ISTD 332.00>286.80 (-) 7.44e5



ADONA
Conc 0.0487
RT 4.431 Area 56525
Q 377.00>251.00 (-) 1.75e4



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190920_009

Sample ID: 0.10 PPB ICAL
Date acquired: 9/20/2019 3:49:21 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_009.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.136	6307664	6307664	1	5.0000	ng/mL	5.0000
PFBS_1	M	4.040	36762	1491572	2	0.0928	ng/mL	0.0887
PFBS-13C	Auto	4.043	1492597	6307664	1	4.8478	ng/mL	5.0000
PFBS-13C_IS	Auto	4.043	1491572	1491572	2	5.0000	ng/mL	5.0000
PFPeS	M	4.261	14986	1491572	2	0.1191	ng/mL	0.0941
PFHxS_1	Auto	4.420	25081	923989	3	0.0972	ng/mL	0.0913
PFHxS-18O	Auto	4.424	923989	6307664	1	5.3769	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.424	923989	923989	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.589	23623	923989	3	0.1014	ng/mL	0.0953
PFOS_1	Auto	4.761	15111	803398	4	0.0899	ng/mL	0.0929
PFOS-13C	Auto	4.761	803398	6307664	1	4.6898	ng/mL	5.0000
PFOS-13C_IS	Auto	4.761	803398	803398	4	5.0000	ng/mL	5.0000
PFNS	M	4.944	9087	803398	4	0.0824	ng/mL	0.0962
PFDS_1	M	5.115	14123	803398	4	0.0919	ng/mL	0.0965
PFDOS	Auto	5.451	16597	803398	4	0.0954	ng/mL	0.0970
9Cl-PF3ONS	Auto	4.865	118857	803398	4	0.1001	ng/mL	0.0933
11Cl-PF3OUdS	M	5.217	63386	803398	4	0.0887	ng/mL	0.0943
PFBA	Auto	3.448	95215	4950342	5	0.1012	ng/mL	0.1000
PFBA-13C	Auto	3.448	4950342	6307664	1	4.9154	ng/mL	5.0000
PFBA-13C_IS	Auto	3.448	4950342	4950342	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.990	245707	3297249	6	0.0953	ng/mL	0.1000
PFPeA-13C	Auto	3.990	3297249	6307664	1	4.9984	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.990	3297249	3297249	6	5.0000	ng/mL	5.0000
PFHxA	M	4.243	173546	8495537	7	0.1044	ng/mL	0.1000
PFHxA-13C	Auto	4.243	8495537	6307664	1	5.5826	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.243	8495537	8495537	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.422	193684	7785734	8	0.1088	ng/mL	0.1000
PFHpA-13C	Auto	4.423	7785734	6307664	1	6.0511	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.423	7785734	7785734	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.594	194619	7378965	9	0.1027	ng/mL	0.1000
PFOA-13C	Auto	4.595	7378965	6307664	1	4.8613	ng/mL	5.0000
PFOA-13C_IS	Auto	4.595	7378965	7378965	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.770	116526	5969963	10	0.0954	ng/mL	0.1000
PFNA-13C	Auto	4.771	5969963	6307664	1	5.1761	ng/mL	5.0000
PFNA-13C_IS	Auto	4.771	5969963	5969963	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.955	106455	4255529	11	0.1161	ng/mL	0.1000
PFDA-13C	Auto	4.955	4255529	6307664	1	4.1750	ng/mL	5.0000
PFDA-13C_IS	Auto	4.955	4255529	4255529	11	5.0000	ng/mL	5.0000
PFUnA	M	5.137	112492	4919679	12	0.1096	ng/mL	0.1000
PFUnA-13C	Auto	5.137	4919679	6307664	1	5.4509	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.137	4919679	4919679	12	5.0000	ng/mL	5.0000
PFDoA	M	5.308	86881	6389110	13	0.0955	ng/mL	0.1000
PFDoA-13C	Auto	5.311	6389110	6307664	1	4.3106	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.311	6389110	6389110	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.475	154494	10150861	14	0.0897	ng/mL	0.1000
PFTeDA	Auto	5.625	233126	10150861	14	0.1026	ng/mL	0.1000
PFTeDA-13C	Auto	5.625	10150861	6307664	1	5.3110	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.625	10150861	10150861	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.961	211861	8676005	15	0.1012	ng/mL	0.1000
13C-PFHxDA	Auto	5.961	8676005	6307664	1	4.9236	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.961	8676005	8676005	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.484	105627	8676005	15	0.1042	ng/mL	0.1000
FOSA	Auto	5.235	64174	2588971	16	0.1094	ng/mL	0.1000
FOSA-13C	Auto	5.234	2588971	6307664	1	4.5152	ng/mL	5.0000
FOSA-13C_IS	Auto	5.234	2588971	2588971	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.620	26558	846762	17	0.1077	ng/mL	0.1000
N-MeFOSA-d3	Auto	5.618	846762	6307664	1	5.0050	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.618	846762	846762	17	5.0000	ng/mL	5.0000
N-EtFOSA	M	5.758	4424	1199221	18	0.1028	ng/mL	0.1000
N-EtFOSA-d9	Auto	5.752	1199221	6307664	1	4.9195	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.752	1199221	1199221	18	5.0000	ng/mL	5.0000
N-MeFOSE	M	5.595	30681	851395	19	0.1207	ng/mL	0.1000
N-MeFOSE-d7	Auto	5.587	851395	6307664	1	4.7916	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.587	851395	851395	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.724	27285	603393	20	0.1056	ng/mL	0.1000
N-EtFOSE-d9	Auto	5.713	603393	6307664	1	4.6928	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.713	603393	603393	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.051	18122	871736	21	0.1274	ng/mL	0.1000

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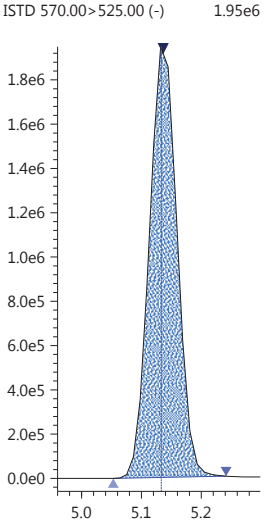
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(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.051	871736	6307664	1	5.2753	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.051	871736	871736	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.148	8780	737975	22	0.0963	ng/mL	0.1000
N-EtFOSAA-d5	Auto	5.148	737975	6307664	1	5.4886	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.148	737975	737975	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.211	7426	407180	23	0.0970	ng/mL	0.0937
4_2-FTS-13C	Auto	4.212	407180	6307664	1	3.5988	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.212	407180	407180	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.582	13144	661826	24	0.1089	ng/mL	0.0951
6_2-FTS-13C	Auto	4.582	661826	6307664	1	5.4879	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.582	661826	661826	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.947	5673	448385	25	0.0852	ng/mL	0.0960
8_2-FTS-13C	Auto	4.950	448385	6307664	1	6.0263	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.950	448385	448385	25	5.0000	ng/mL	5.0000
10_2-FtS_1	M	5.313	6768	448385	25	0.0936	ng/mL	0.0966
HPFO_DA	Auto	4.310	37655	1530467	26	0.0942	ng/mL	0.1000
HFPO_DA-13C	Auto	4.309	1530467	6307664	1	4.0256	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.309	1530467	1530467	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.438	77868	1530467	26	0.0923	ng/mL	0.0945

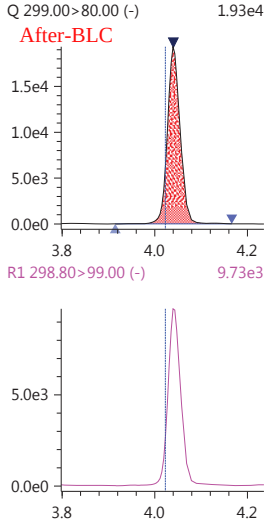
13C7-PFUnDA_IS

Conc 5.0000
RT 5.136 Area 6307664



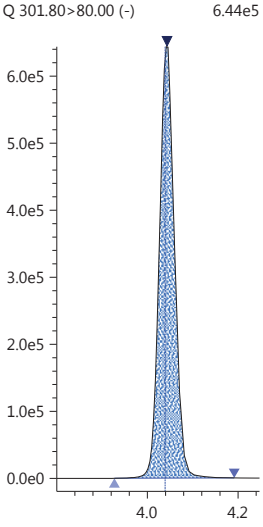
PFBS_1

Conc 0.0928
RT 4.040 Area 36762
R#1 50.51 (0.00)



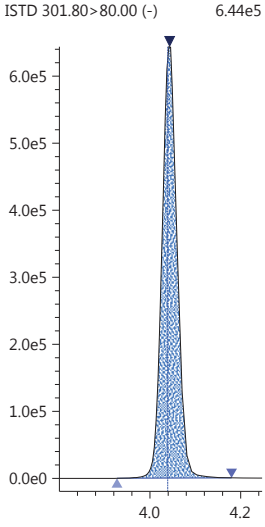
PFBS-13C

Conc 4.8478
RT 4.043 Area 1492597



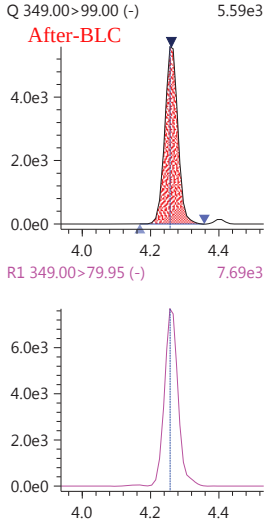
PFBS-13C_IS

Conc 5.0000
RT 4.043 Area 1491572



PFPeS

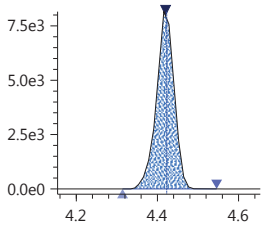
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RT 4.261 Area 14986
R#1 137.33 (0.00)



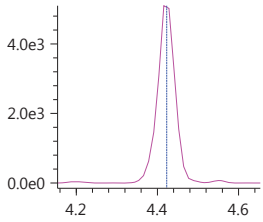
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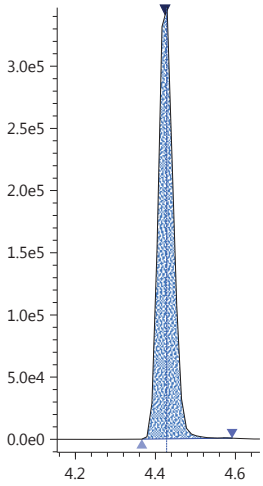
PFHxS_1
Conc 0.0972
RT 4.420 Area 25081
R#1 61.61 (0.00)
Q 399.00>80.00 (-) 8.16e3



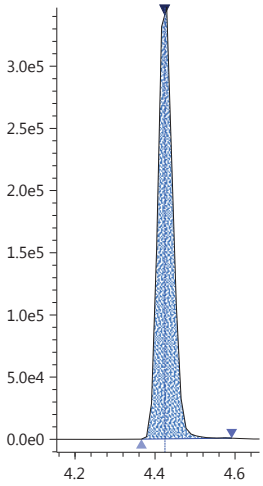
R1 399.00>99.00 (-) 5.10e3



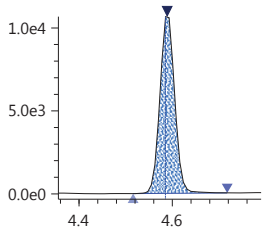
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Conc 5.3769
RT 4.424 Area 923989
Q 402.70>84.05 (-) 3.47e5



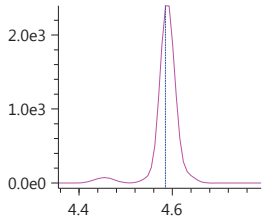
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Conc 5.0000
RT 4.424 Area 923989
ISTD 402.70>84.05 (-) 3.47e5



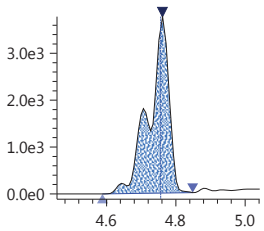
PFHpS_1
Conc 0.1014
RT 4.589 Area 23623
R#1 22.52 (0.00)
Q 449.00>80.15 (-) 1.07e4



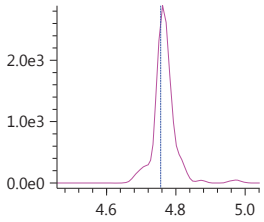
R1 449.00>99.20 (-) 2.40e3



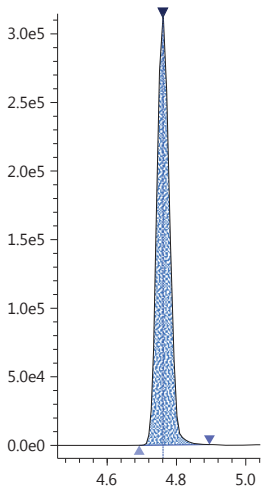
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Conc 0.0899
RT 4.761 Area 15111
R#1 76.27 (0.00)
Q 499.00>80.00 (-) 3.78e3



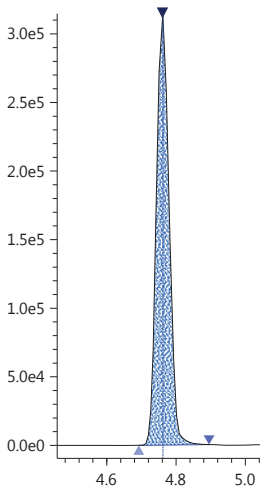
R1 499.00>99.00 (-) 2.89e3



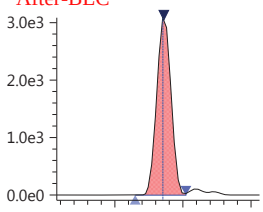
PFOS-13C
Conc 4.6898
RT 4.761 Area 803398
Q 502.80>80.05 (-) 3.15e5



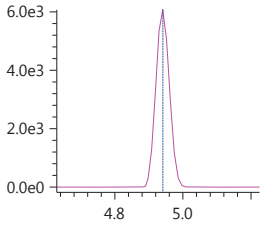
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Conc 5.0000
RT 4.761 Area 803398
ISTD 502.80>80.05 (-) 3.15e5



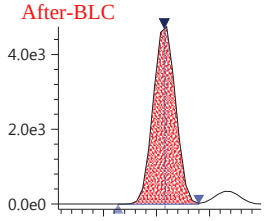
PFNS
Conc 0.0824
RT 4.944 Area 9087
R#1 196.92 (0.00)
Q 549.00>99.00 (-) 3.09e3



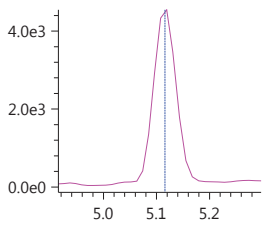
R1 549.00>79.95 (-) 6.07e3



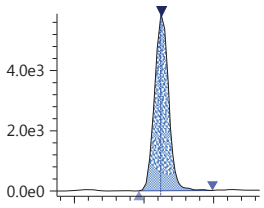
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Conc 0.0919
RT 5.115 Area 14123
R#1 93.23 (0.00)
Q 599.00>79.90 (-) 4.74e3



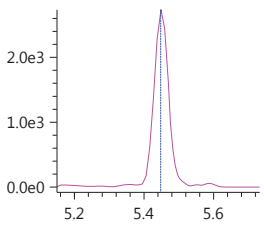
R1 599.00>99.10 (-) 4.55e3



PFDOS
Conc 0.0954
RT 5.451 Area 16597
R#1 45.97 (0.00)
Q 699.00>79.95 (-) 5.89e3



R1 699.00>99.05 (-) 2.73e3



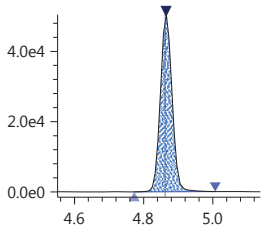
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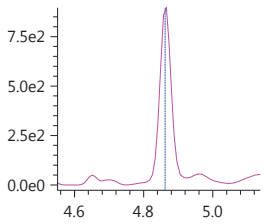
9Cl-PF3ONS

Conc 0.1001
RT 4.865 Area 118857
R#1 1.76 (0.00)

Q 531.00>351.00 (-) 5.05e4



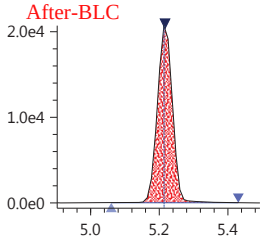
R1 531.00>98.90 (-) 8.96e2



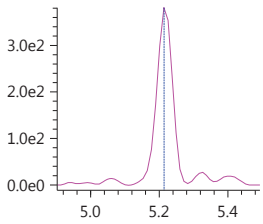
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Conc 0.0887
RT 5.217 Area 63386
R#1 1.77 (0.00)

Q 631.00>451.05 (-) 2.07e4



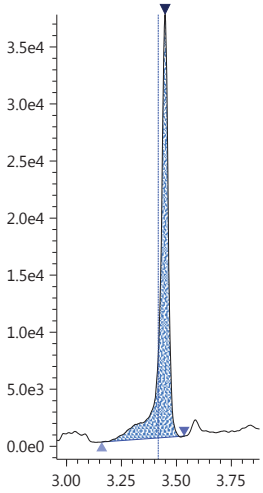
R1 631.00>98.90 (-) 3.81e2



PFBA

Conc 0.1012
RT 3.448 Area 95215

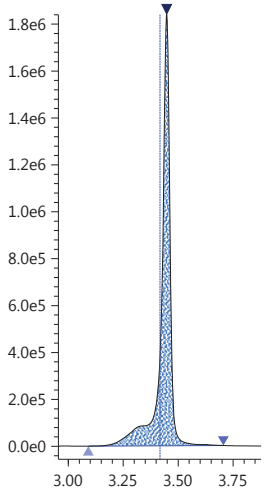
Q 213.00>169.10 (-) 3.78e4



PFBA-13C

Conc 4.9154
RT 3.448 Area 4950342

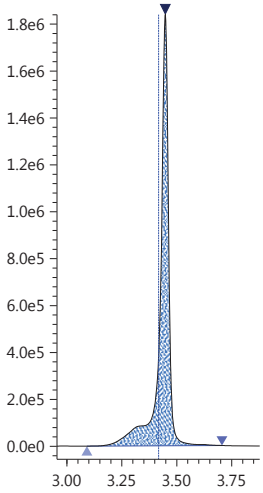
Q 216.90>172.15 (-) 1.84e6



PFBA-13C_IS

Conc 5.0000
RT 3.448 Area 4950342

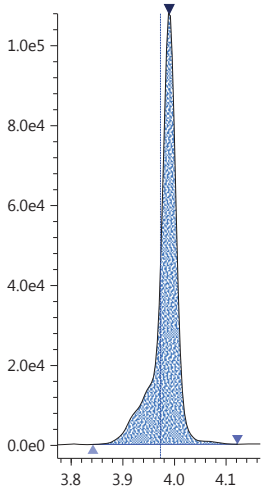
ISTD 216.90>172.15 (-) 1.84e6



PFPeA

Conc 0.0953
RT 3.990 Area 245707

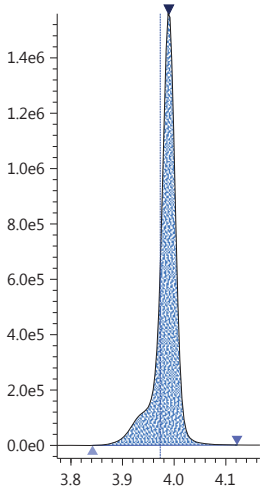
Q 263.05>219.10 (-) 1.08e5



PFPeA-13C

Conc 4.9984
RT 3.990 Area 3297249

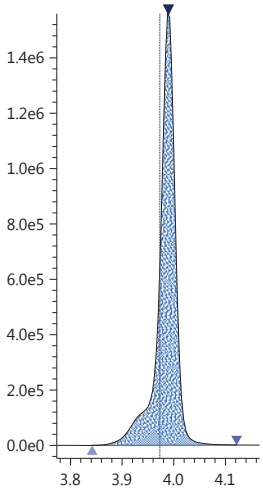
Q 267.90>223.00 (-) 1.56e6



PFPeA-13C_IS

Conc 5.0000
RT 3.990 Area 3297249

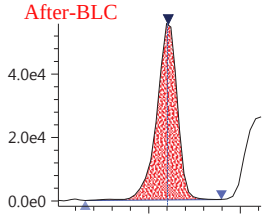
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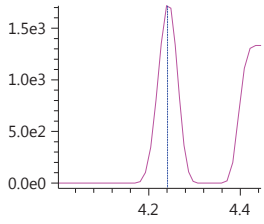
PFHxA

Conc 0.1044
RT 4.243 Area 173546
R#1 3.11 (0.00)

Q 313.00>269.00 (-) 5.59e4



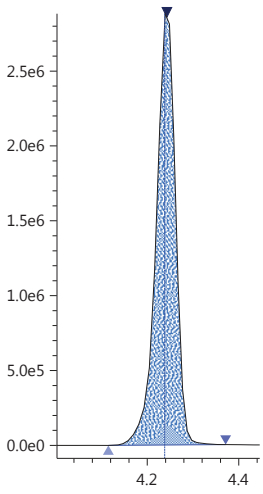
R1 313.00>119.10 (-) 1.72e3



PFHxA-13C

Conc 5.5826
RT 4.243 Area 8495537

Q 314.90>270.10 (-) 2.88e6



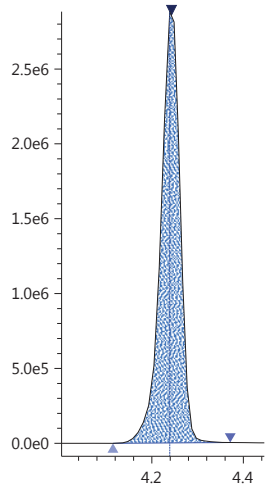
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PFHxA-13C_IS

Conc 5.0000
RT 4.243 Area 8495537

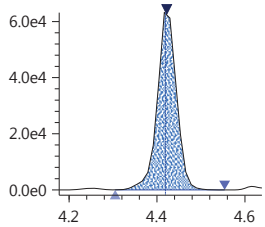
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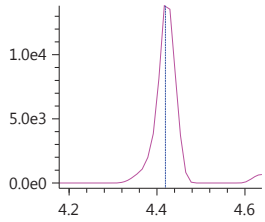
PFHpA

Conc 0.1088
RT 4.422 Area 193684
R#1 21.93 (0.00)

Q 362.90>319.00 (-) 6.32e4



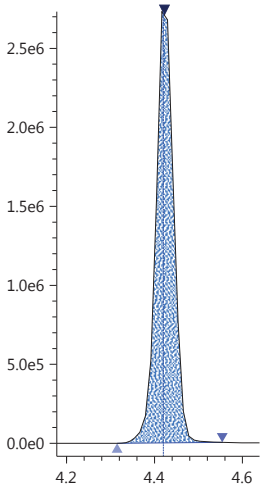
R1 362.90>169.00 (-) 1.38e4



PFHpA-13C

Conc 6.0511
RT 4.423 Area 7785734

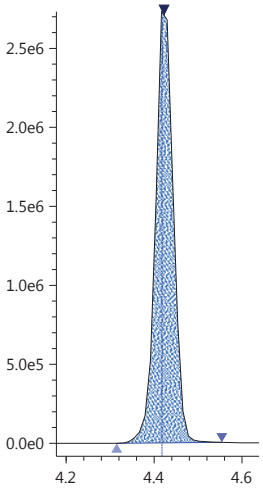
Q 366.90>322.10 (-) 2.73e6



PFHpA-13C_IS

Conc 5.0000
RT 4.423 Area 7785734

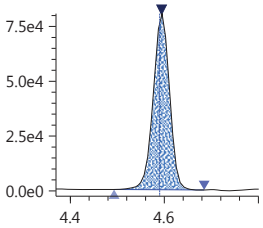
ISTD 366.90>322.10 (-) 2.73e6



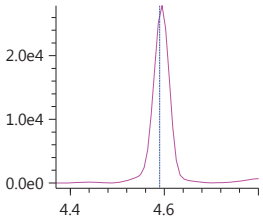
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Conc 0.1027
RT 4.594 Area 194619
R#1 34.58 (0.00)

Q 413.00>369.00 (-) 8.09e4



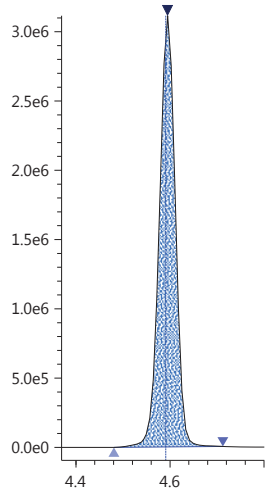
R1 413.00>169.10 (-) 2.78e4



PFOA-13C

Conc 4.8613
RT 4.595 Area 7378965

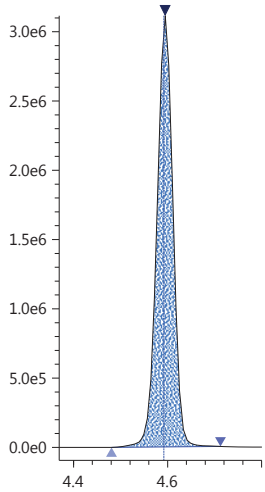
Q 416.80>372.05 (-) 3.12e6



PFOA-13C_IS

Conc 5.0000
RT 4.595 Area 7378965

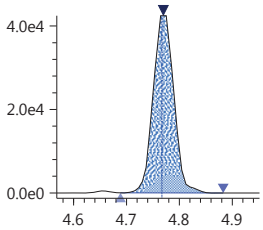
ISTD 416.80>372.05 (-) 3.12e6



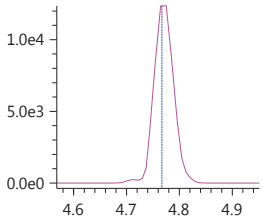
PFNA

Conc 0.0954
RT 4.770 Area 116526
R#1 28.99 (0.00)

Q 463.00>418.90 (-) 4.25e4



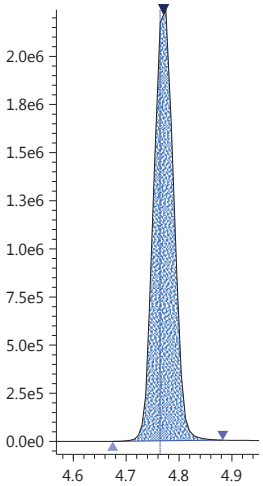
R1 463.00>219.00 (-) 1.24e4



PFNA-13C

Conc 5.1761
RT 4.771 Area 5969963

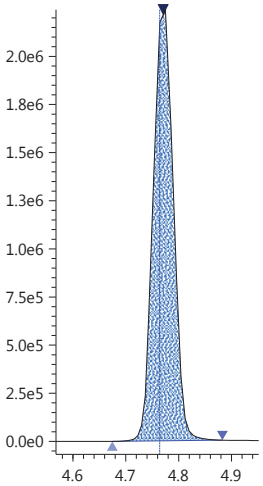
Q 467.80>423.00 (-) 2.24e6



PFNA-13C_IS

Conc 5.0000
RT 4.771 Area 5969963

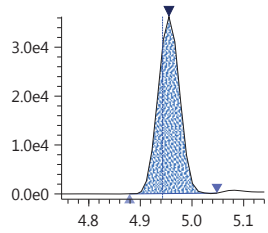
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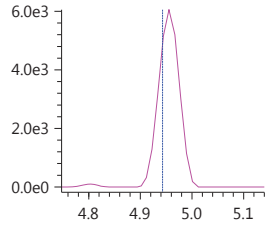
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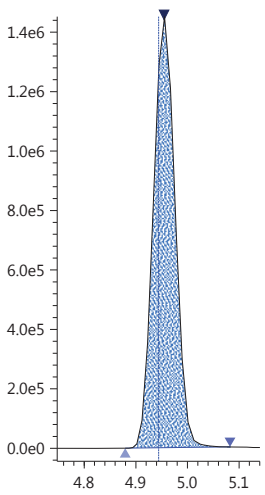
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Conc 0.1161
RT 4.955 Area 106455
R#1 16.68 (0.00)
Q 513.00>468.80 (-) 3.63e4



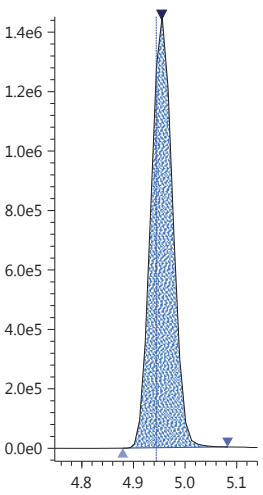
R1 513.00>219.10 (-) 6.06e3



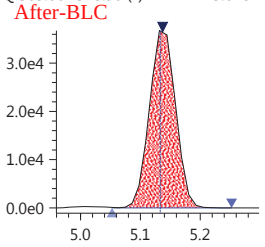
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Conc 4.1750
RT 4.955 Area 4255529
Q 514.80>469.95 (-) 1.45e6



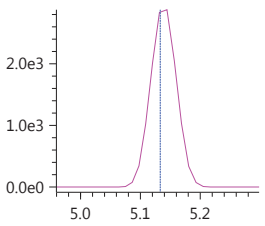
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RT 4.955 Area 4255529
ISTD 514.80>469.95 (-) 1.45e6



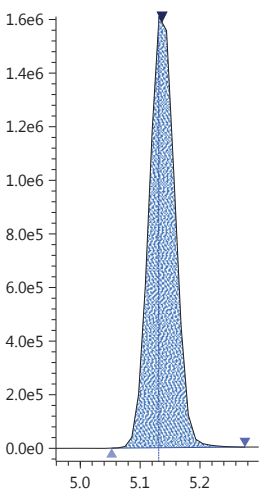
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RT 5.137 Area 112492
R#1 7.76 (0.00)
Q 563.00>518.90 (-) 3.67e4



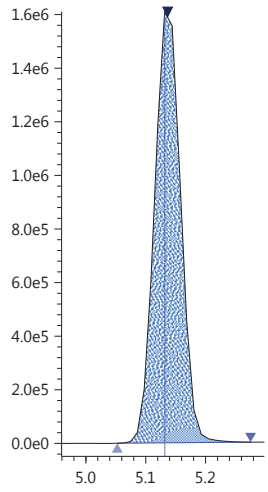
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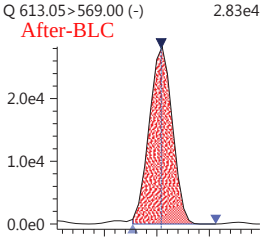
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Q 564.80>519.95 (-) 1.61e6



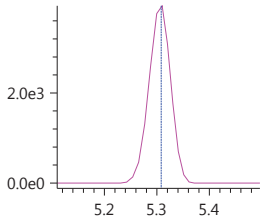
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Conc 5.0000
RT 5.137 Area 4919679
ISTD 564.80>519.95 (-) 1.61e6



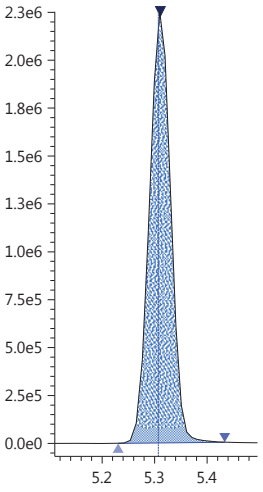
PFDoA
Conc 0.0955
RT 5.308 Area 86881
R#1 13.69 (0.00)
Q 613.05>569.00 (-) 2.83e4



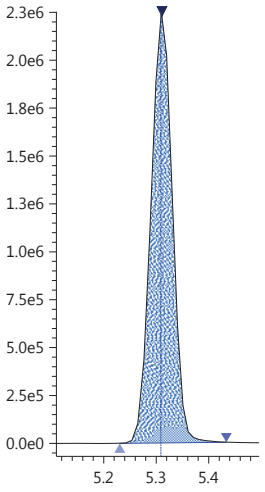
R1 613.05>169.00 (-) 3.94e3



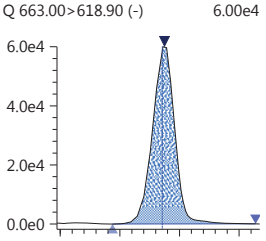
PFDoA-13C
Conc 4.3106
RT 5.311 Area 6389110
Q 614.80>569.95 (-) 2.25e6



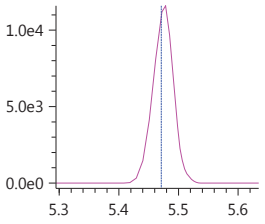
PFDoA-13C_IS
Conc 5.0000
RT 5.311 Area 6389110
ISTD 614.80>569.95 (-) 2.25e6



PFTrDA
Conc 0.0897
RT 5.475 Area 154494
R#1 19.27 (0.00)
Q 663.00>618.90 (-) 6.00e4



R1 662.90>169.00 (-) 1.16e4



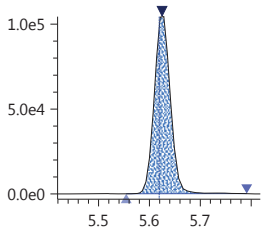
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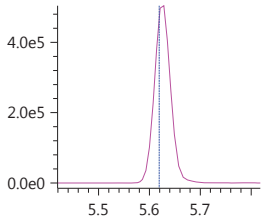
PFTeDA

Conc 0.1026
RT 5.625 Area 233126
R#1 476.78 (0.00)

Q 713.40>669.00 (-) 1.04e5



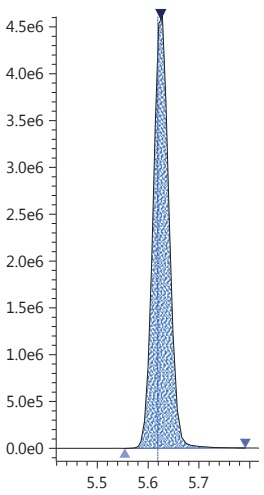
R1 713.40>169.10 (-) 5.04e5



PFTeDA-13C

Conc 5.3110
RT 5.625 Area 10150861

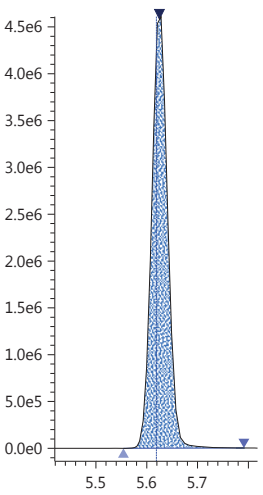
Q 714.70>669.90 (-) 4.61e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.625 Area 10150861

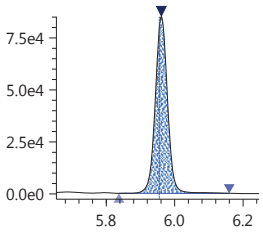
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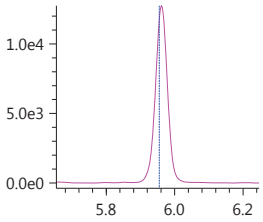
PFHxDA

Conc 0.1012
RT 5.961 Area 211861
R#1 15.61 (0.00)

Q 813.00>769.05 (-) 8.52e4



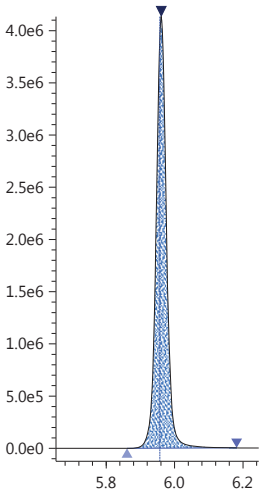
R1 813.00>218.95 (-) 1.27e4



13C-PFHxDA

Conc 4.9236
RT 5.961 Area 8676005

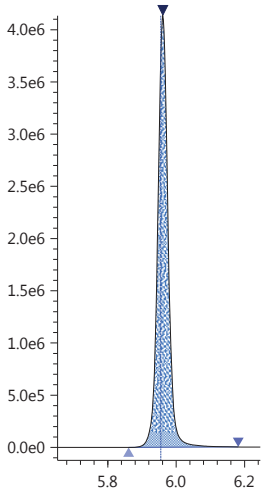
Q 815.00>770.05 (-) 4.13e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.961 Area 8676005

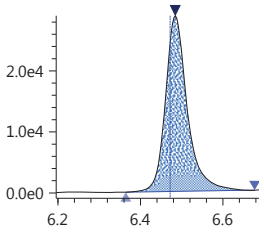
ISTD 815.00>770.05 (-) 4.13e6



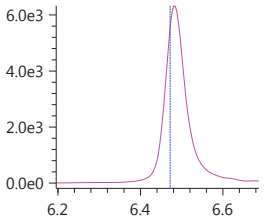
PFODA

Conc 0.1042
RT 6.484 Area 105627
R#1 22.25 (0.00)

Q 913.00>868.85 (-) 2.90e4



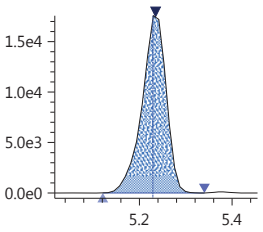
R1 913.00>169.00 (-) 6.33e3



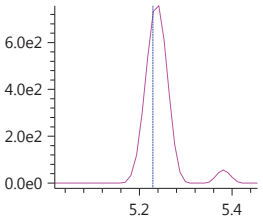
FOSA

Conc 0.1094
RT 5.235 Area 64174
R#1 4.18 (0.00)

Q 498.20>78.00 (-) 1.76e4



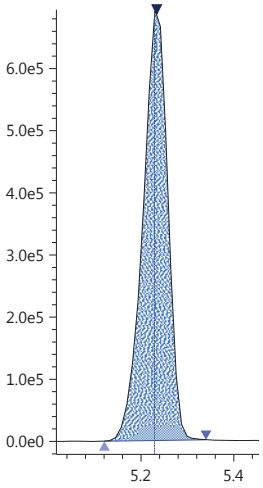
R1 498.20>64.10 (-) 7.57e2



FOSA-13C

Conc 4.5152
RT 5.234 Area 2588971

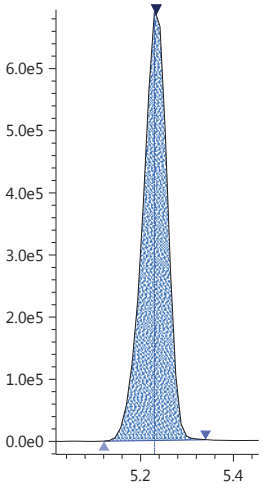
Q 506.00>78.05 (-) 6.95e5



FOSA-13C_IS

Conc 5.0000
RT 5.234 Area 2588971

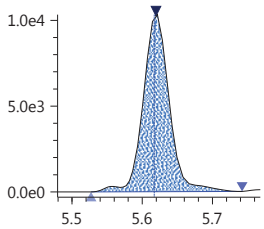
ISTD 506.00>78.05 (-) 6.95e5



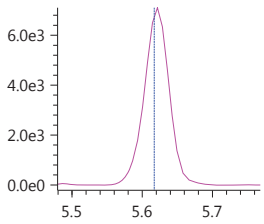
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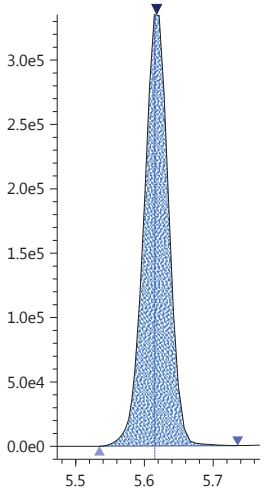
N-MeFOSA
Conc 0.1077
RT 5.620 Area 26558
R#1 68.98 (0.00)
Q 512.00>169.10 (-) 1.03e4



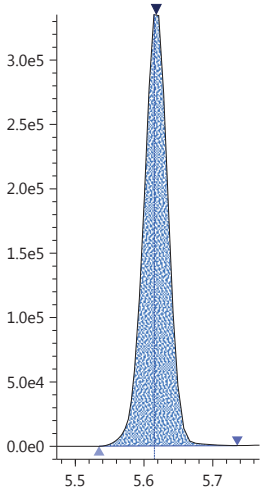
R1 512.00>219.00 (-) 7.10e3



N-MeFOSA-d3
Conc 5.0050
RT 5.618 Area 846762
Q 514.90>168.90 (-) 3.35e5

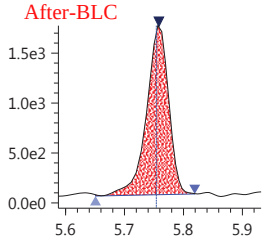


N-MeFOSA-d3_IS
Conc 5.0000
RT 5.618 Area 846762
ISTD 514.90>168.90 (-) 3.35e5

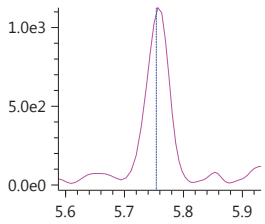


N-EtFOSA
Conc 0.1028
RT 5.758 Area 4424
R#1 64.08 (0.00)
Q 526.90>169.10 (-) 1.78e3

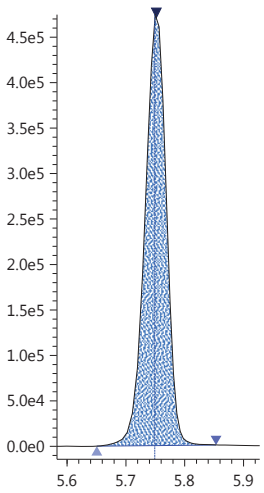
After-BLC



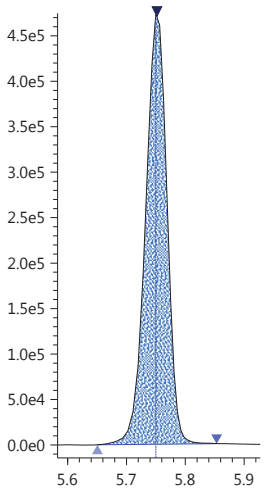
R1 526.90>219.00 (-) 1.13e3



N-EtFOSA-d9
Conc 4.9195
RT 5.752 Area 1199221
Q 530.90>169.15 (-) 4.75e5

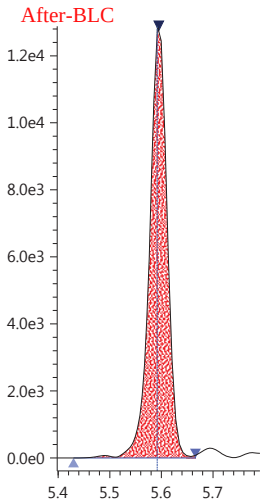


N-EtFOSA-d9_IS
Conc 5.0000
RT 5.752 Area 1199221
ISTD 530.90>169.15 (-) 4.75e5

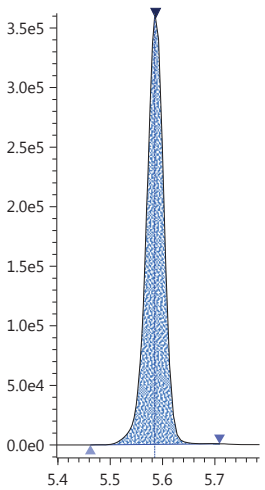


N-MeFOSE
Conc 0.1207
RT 5.595 Area 30681
Q 616.00>59.00 (-) 1.29e4

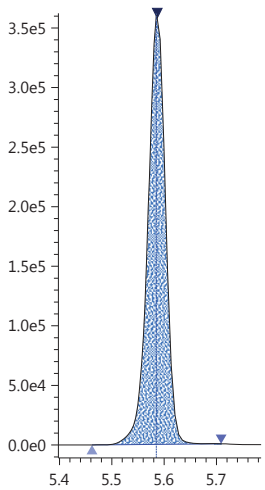
After-BLC



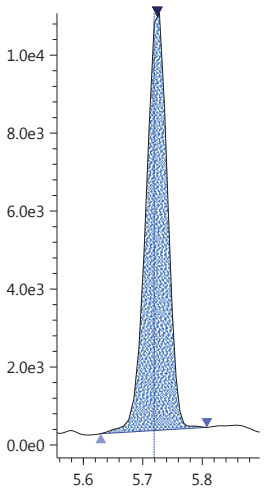
N-MeFOSE-d7
Conc 4.7916
RT 5.587 Area 851395
Q 622.70>59.10 (-) 3.62e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.587 Area 851395
ISTD 622.70>59.10 (-) 3.62e5



N-EtFOSE
Conc 0.1056
RT 5.724 Area 27285
Q 630.00>58.90 (-) 1.11e4



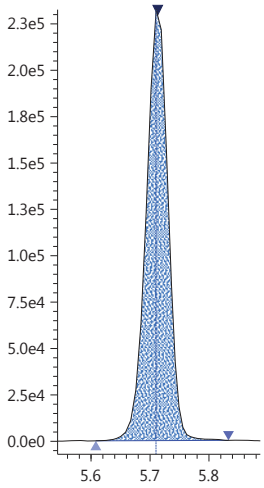
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N-EtFOSE-d9

Conc 4.6928
RT 5.713 Area 603393

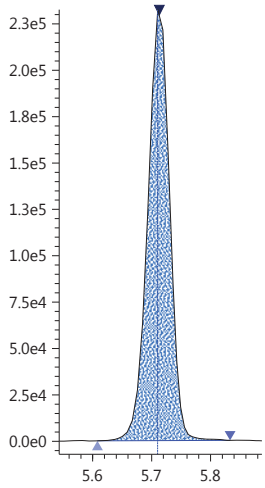
Q 638.70>59.10 (-) 2.33e5



N-EtFOSE-d9_IS

Conc 5.0000
RT 5.713 Area 603393

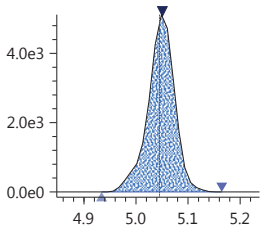
ISTD 638.70>59.10 (-) 2.33e5



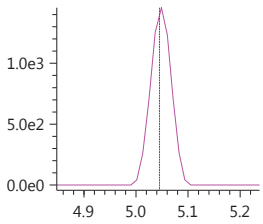
N-MeFOSAA

Conc 0.1274
RT 5.051 Area 18122
R#1 28.42 (0.00)

Q 570.20>419.00 (-) 5.12e3



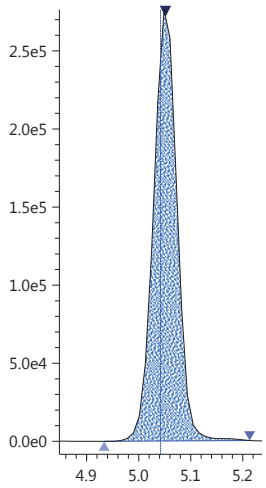
R1 570.20>512.00 (-) 1.46e3



N-MeFOSAA-d3

Conc 5.2753
RT 5.051 Area 871736

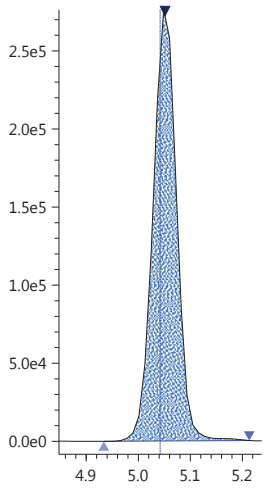
Q 572.80>419.05 (-) 2.76e5



N-MeFOSAA-d3_IS

Conc 5.0000
RT 5.051 Area 871736

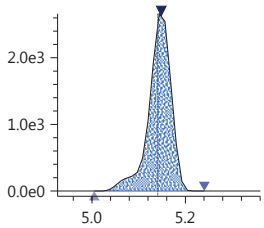
ISTD 572.80>419.05 (-) 2.76e5



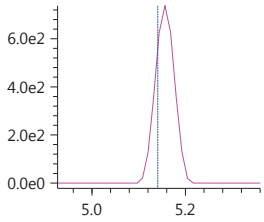
N-EtFOSAA

Conc 0.0963
RT 5.148 Area 8780
R#1 23.08 (0.00)

Q 584.20>418.95 (-) 2.66e3



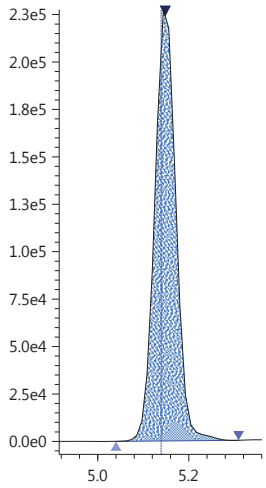
R1 584.20>526.10 (-) 7.37e2



N-EtFOSAA-d5

Conc 5.4886
RT 5.148 Area 737975

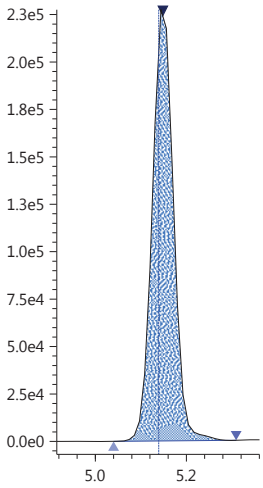
Q 588.80>419.00 (-) 2.28e5



N-EtFOSAA-d5_IS

Conc 5.0000
RT 5.148 Area 737975

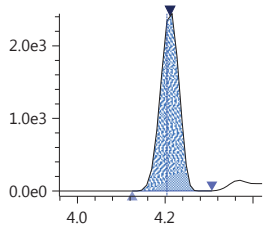
ISTD 588.80>419.00 (-) 2.28e5



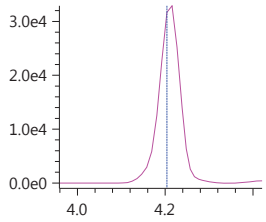
4_2-FTS_1

Conc 0.0970
RT 4.211 Area 7426
R#1 1347.85 (0.00)

Q 327.00>307.05 (-) 2.44e3



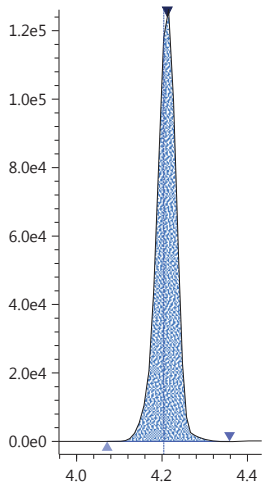
R1 327.00>81.10 (-) 3.29e4



4_2-FTS-13C

Conc 3.5988
RT 4.212 Area 407180

Q 328.80>309.05 (-) 1.26e5



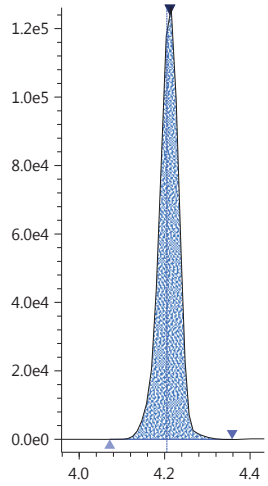
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4_2-FTS-13C_IS

Conc 5.0000
RT 4.212 Area 407180

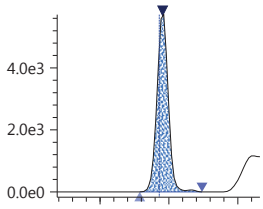
ISTD 328.80>309.05 (-) 1.26e5



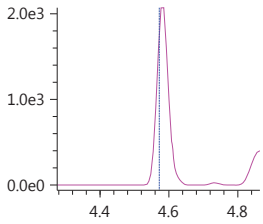
6_2-FTS_1

Conc 0.1089
RT 4.582 Area 13144
R#1 37.17 (0.00)

Q 427.00>407.00 (-) 5.72e3



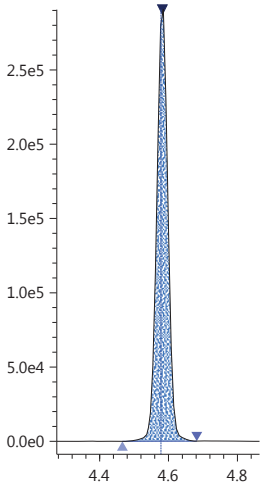
R1 427.00>80.90 (-) 2.07e3



6_2-FTS-13C

Conc 5.4879
RT 4.582 Area 661826

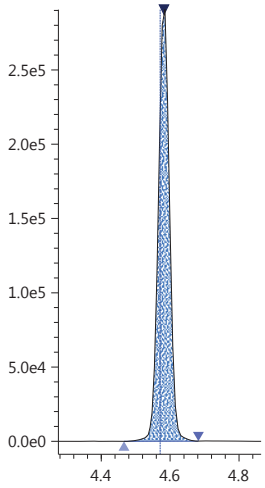
Q 428.90>409.00 (-) 2.91e5



6_2-FTS-13C_IS

Conc 5.0000
RT 4.582 Area 661826

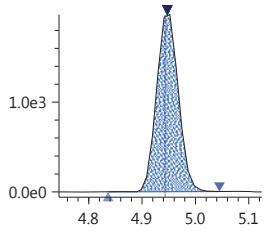
ISTD 428.90>409.00 (-) 2.91e5



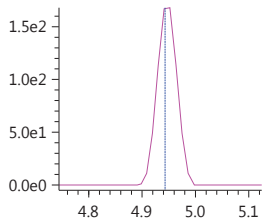
8_2-FTS_1

Conc 0.0852
RT 4.947 Area 5673
R#1 8.54 (0.00)

Q 527.10>506.90 (-) 1.98e3



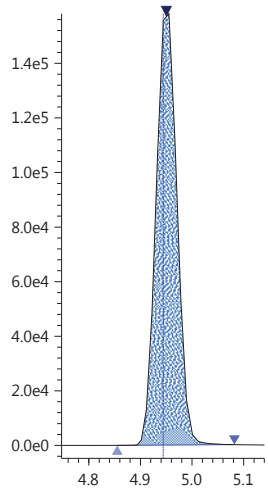
R1 527.20>487.00 (-) 1.68e2



8_2-FTS-13C

Conc 6.0263
RT 4.950 Area 448385

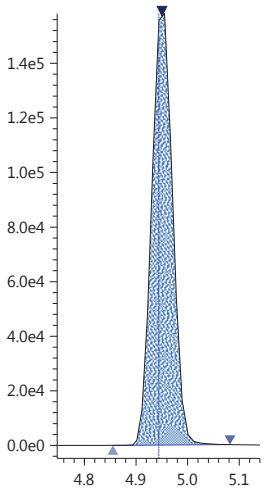
Q 528.80>509.00 (-) 1.58e5



8_2-FTS-13C_IS

Conc 5.0000
RT 4.950 Area 448385

ISTD 528.80>509.00 (-) 1.58e5

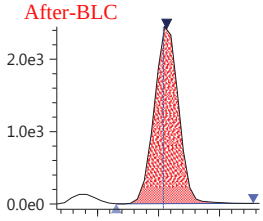


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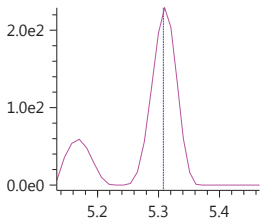
Conc 0.0936
RT 5.313 Area 6768
R#1 9.45 (0.00)

Q 627.00>606.95 (-) 2.45e3

After-BLC



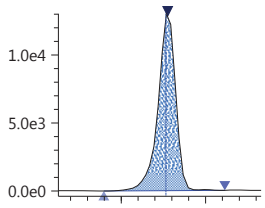
R1 627.00>81.25 (-) 2.29e2



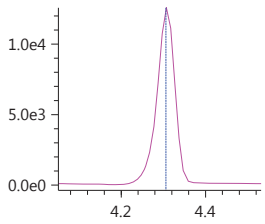
HPFO_DA

Conc 0.0942
RT 4.310 Area 37655
R#1 96.44 (0.00)

Q 329.00>169.00 (-) 1.30e4



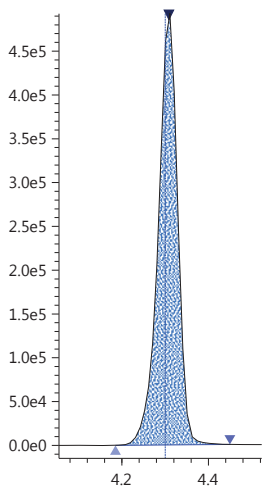
R1 329.00>285.10 (-) 1.26e4



HFPO_DA-13C

Conc 4.0256
RT 4.309 Area 1530467

Q 332.00>286.80 (-) 4.93e5

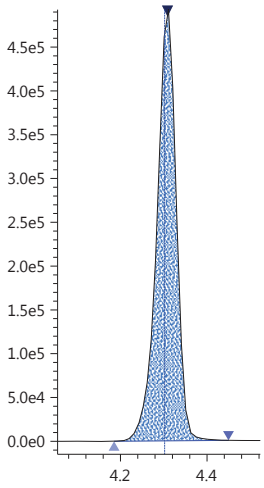


Insight Report

HFPO_DA-13C_IS

Conc 5.0000
RT 4.309 Area 1530467

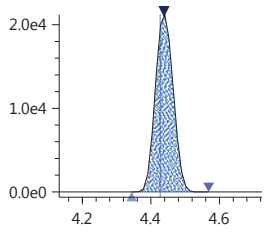
ISTD 332.00>286.80 (-) 4.93e5



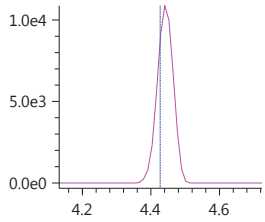
ADONA

Conc 0.0923
RT 4.438 Area 77868
R#1 50.95 (0.00)

Q 377.00>251.00 (-) 2.12e4



R1 377.00>84.95 (-) 1.09e4



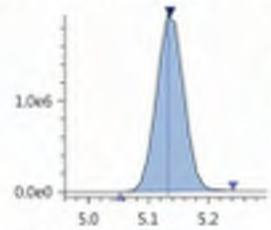
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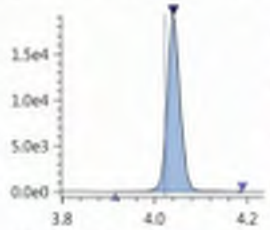
190920_009

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Date acquired: 9/20/2019 3:49:21 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_009.lcd
Vial: 2 | Inj. Volume: 15.0000uL | Tray: 0

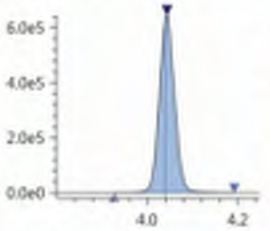
13C7-PFUnDA_IS
Conc 5.0000
RT 5.136 Area 6307664
ISTD 570.00>525.00 (-) 1.95e6



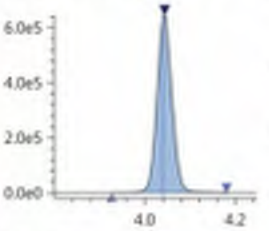
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Conc 0.0926
RT 4.040 Area 36787
Q 299.00>80.00 (-) 1.93e4



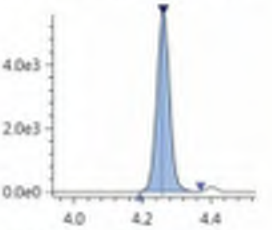
PFBS-13C
Conc 4.8478
RT 4.043 Area 1492597
Q 301.80>80.00 (-) 6.44e5



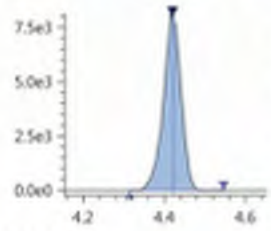
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ISTD 301.80>80.00 (-) 6.44e5



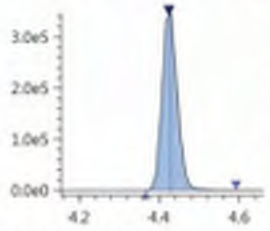
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Conc 0.1184
RT 4.261 Area 14934
Q 349.00>99.00 (-) 5.59e3



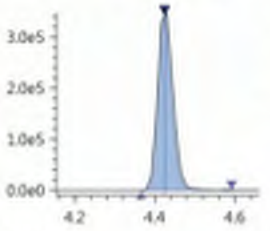
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Conc 0.0960
RT 4.420 Area 25081
Q 399.00>80.00 (-) 8.16e3



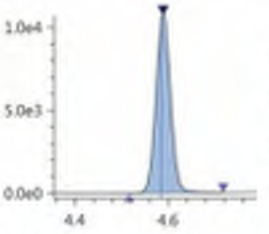
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Conc 5.2582
RT 4.424 Area 923989
Q 402.70>84.05 (-) 3.47e5



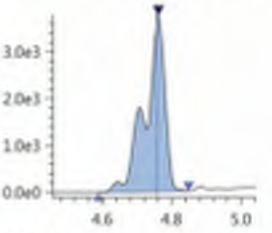
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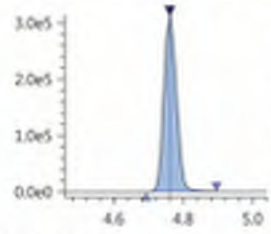
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Conc 0.1016
RT 4.589 Area 23623
Q 449.00>80.15 (-) 1.07e4



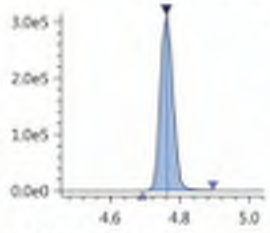
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Conc 0.0893
RT 4.761 Area 15111
Q 499.00>80.00 (-) 3.78e3



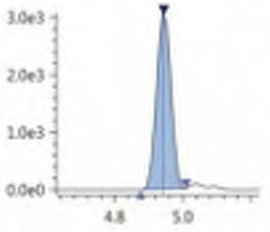
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Conc 4.6898
RT 4.761 Area 803398
Q 502.80>80.05 (-) 3.15e5



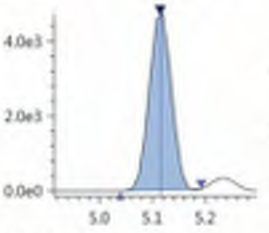
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Conc 5.0000
RT 4.761 Area 803398
ISTD 502.80>80.05 (-) 3.15e5



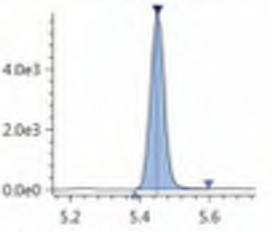
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RT 4.944 Area 8960
Q 549.00>99.00 (-) 3.09e3



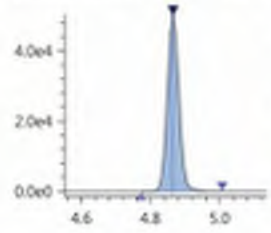
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Conc 0.0918
RT 5.115 Area 13869
Q 599.00>79.90 (-) 4.74e3



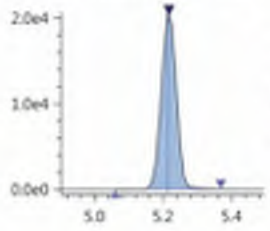
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Q 699.00>79.95 (-) 5.89e3



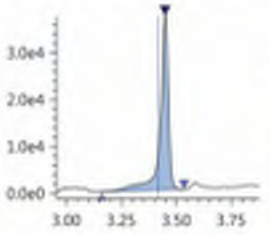
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Conc 0.1001
RT 4.865 Area 118857
Q 531.00>351.00 (-) 5.05e4



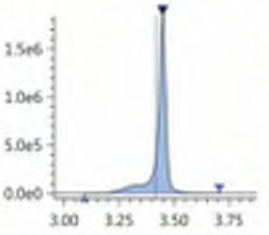
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Q 631.00>451.05 (-) 2.07e4



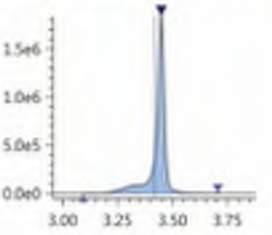
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Conc 0.0783
RT 3.448 Area 95215
Q 213.00>169.10 (-) 3.78e4



PFBA-13C
Conc 4.9154
RT 3.448 Area 4950342
Q 216.90>172.15 (-) 1.84e6



PFBA-13C_IS
Conc 5.0000
RT 3.448 Area 4950342
ISTD 216.90>172.15 (-) 1.84e6

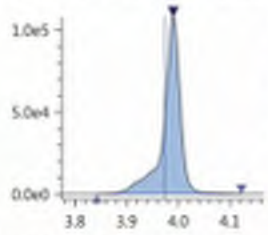


Manual Integration - Before

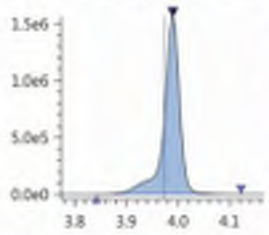
Insight Report

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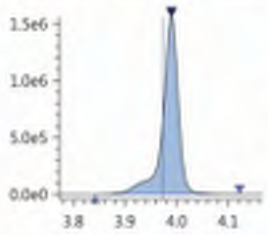
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Conc 0.0937
RT 3.990 Area 245707
Q 263.05>219.10 (-) 1.08e5



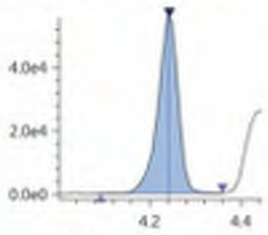
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Conc 4.9984
RT 3.990 Area 3297249
Q 267.90>223.00 (-) 1.56e6



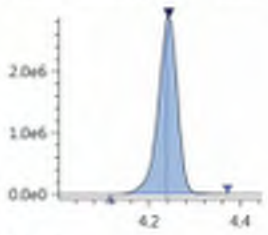
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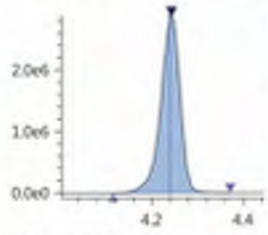
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Conc 0.1100
RT 4.243 Area 171631
Q 313.00>269.00 (-) 5.59e4



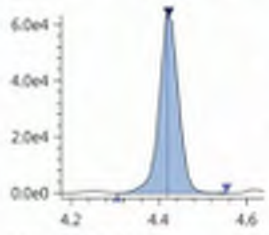
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Conc 5.5826
RT 4.243 Area 8495537
Q 314.90>270.10 (-) 2.88e6



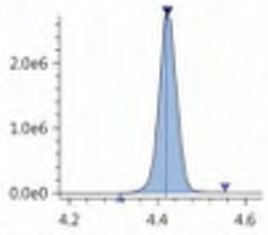
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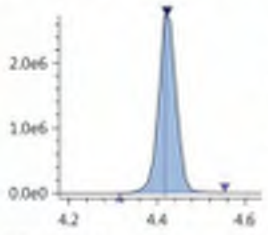
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Conc 0.1157
RT 4.422 Area 193684
Q 362.90>319.00 (-) 6.32e4



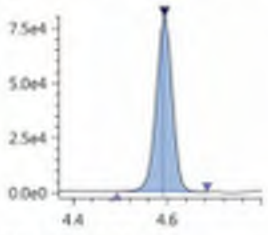
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RT 4.423 Area 7785734
Q 366.90>322.10 (-) 2.73e6



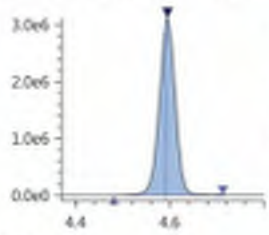
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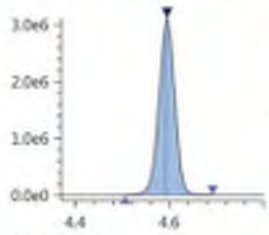
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Conc 0.1084
RT 4.594 Area 194619
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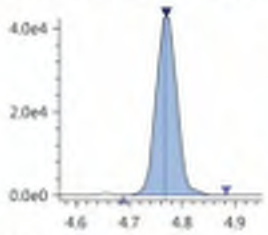
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Conc 4.8613
RT 4.595 Area 7378965
Q 416.80>372.05 (-) 3.12e6



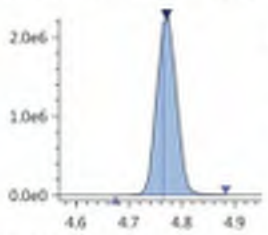
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ISTD 416.80>372.05 (-) 3.12e6



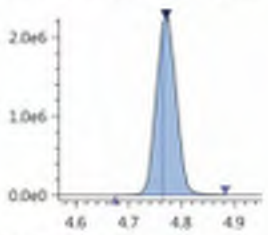
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RT 4.770 Area 116526
Q 463.00>418.90 (-) 4.25e4



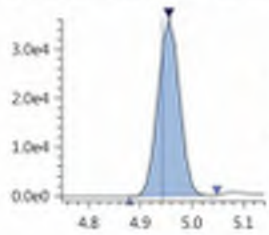
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RT 4.771 Area 5969963
Q 467.80>423.00 (-) 2.24e6



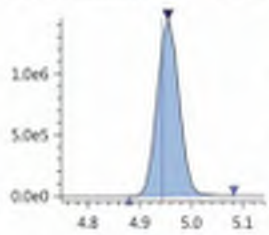
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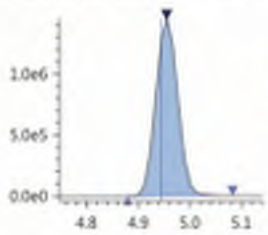
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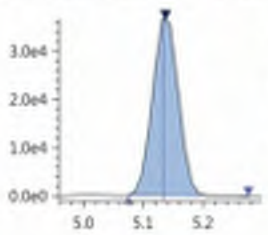
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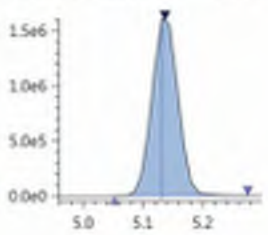
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PFUnA-13C
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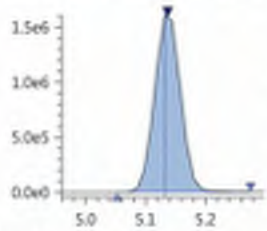


Manual Integration - Before

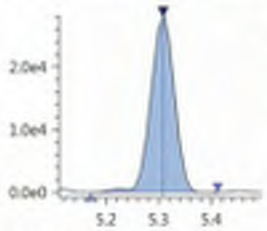
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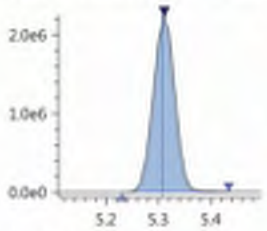
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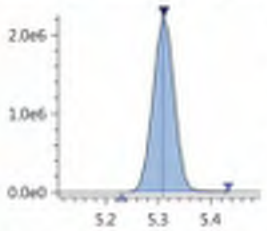
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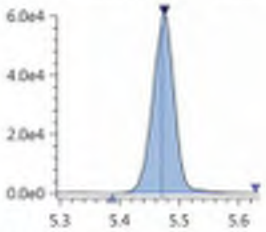
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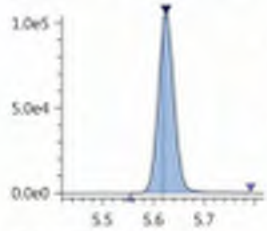
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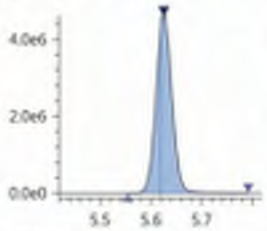
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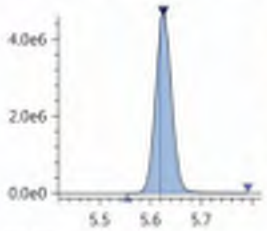
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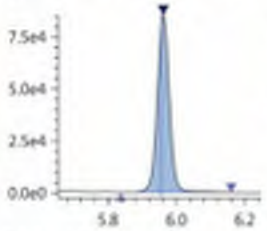
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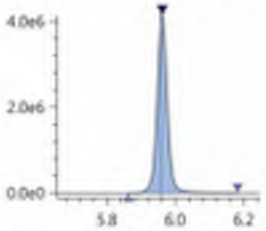
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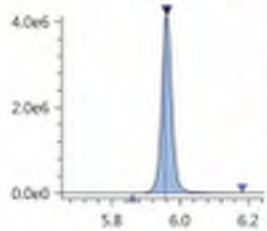
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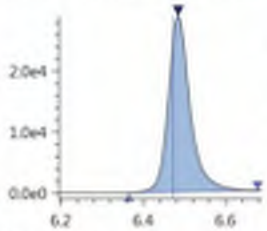
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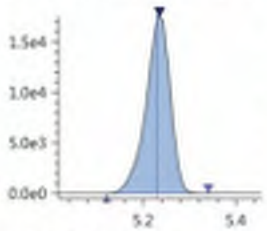
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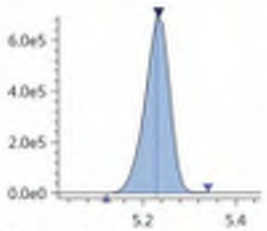
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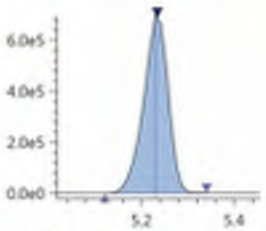
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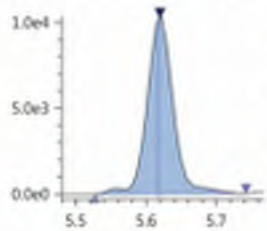
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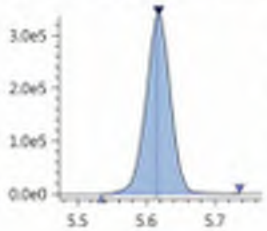
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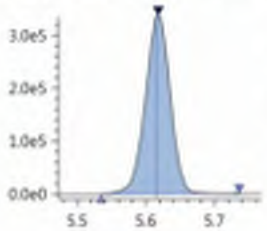
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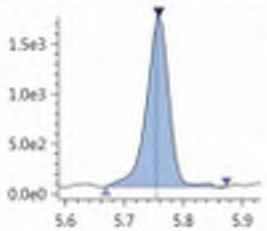
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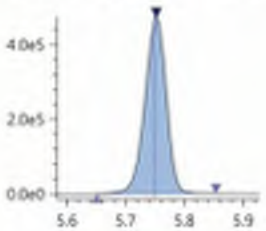
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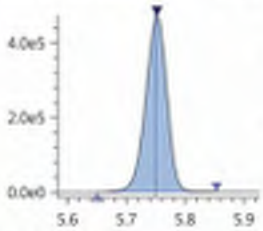
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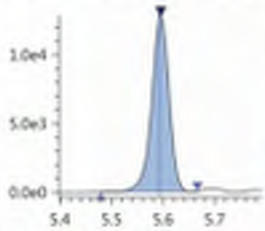
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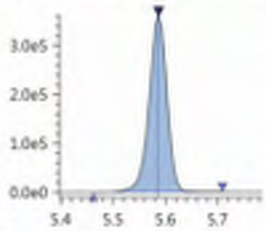
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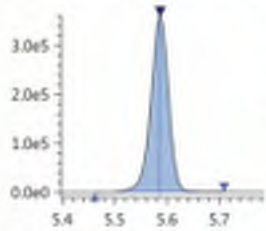
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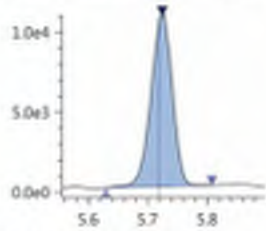
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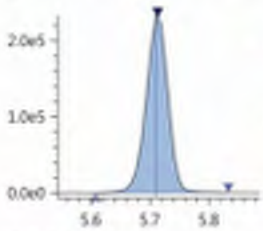
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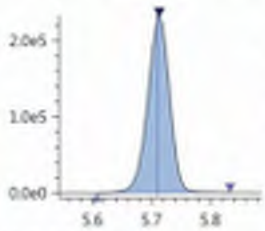
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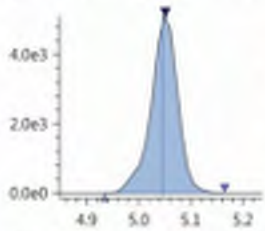
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Q 638.70>59.10 (-) 2.33e5



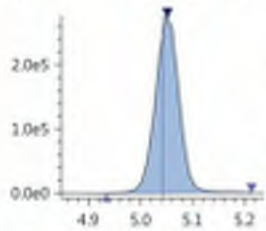
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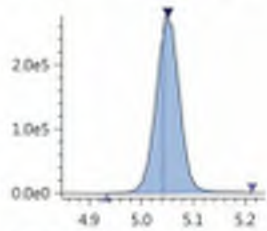
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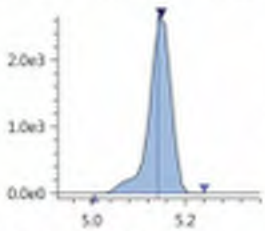
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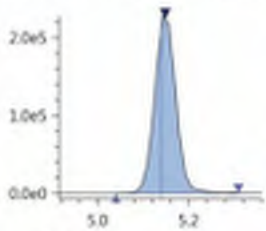
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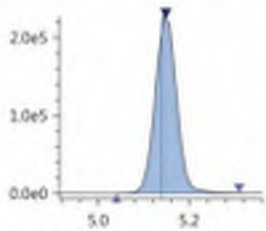
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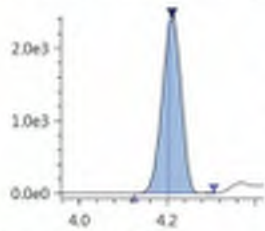
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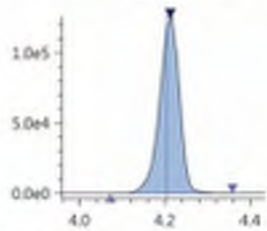
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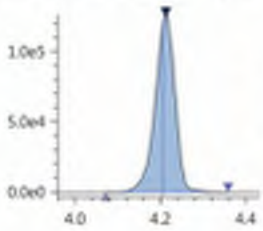
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Q 327.00>307.05 (-) 2.44e3



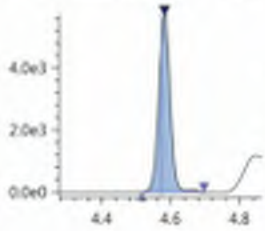
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Q 328.80>309.05 (-) 1.26e5



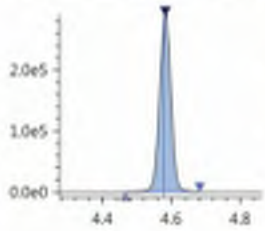
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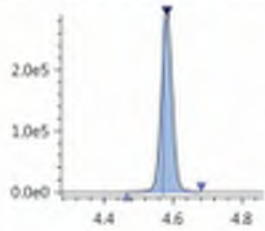
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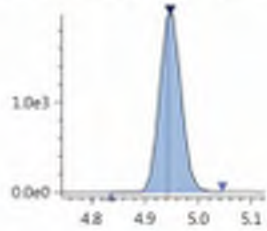
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Q 428.90>409.00 (-) 2.91e5



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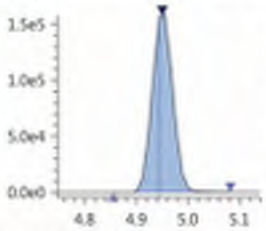
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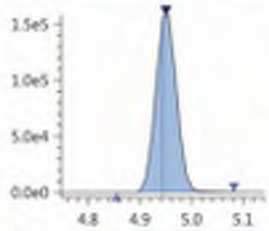
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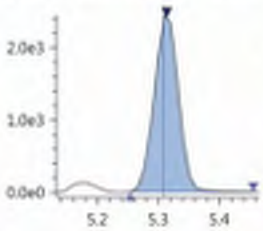
8_2-FTS-13C
Conc 6.0263
RT 4.950 Area 448385
Q 528.80>509.00 (-) 1.58e5



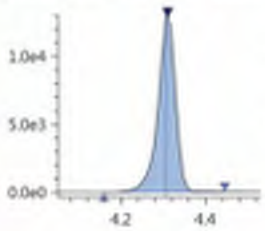
8_2-FTS-13C_IS
Conc 5.0000
RT 4.950 Area 448385
ISTD 528.80>509.00 (-) 1.58e5



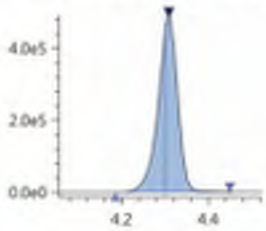
10_2-FtS_1
Conc 0.0936
RT 5.313 Area 6729
Q 627.00>606.95 (-) 2.45e3



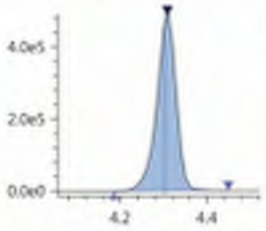
HPFO_DA
Conc 0.1775
RT 4.310 Area 37655
Q 329.00>169.00 (-) 1.30e4



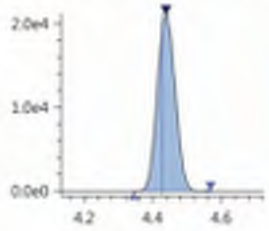
HFPO_DA-13C
Conc 4.0256
RT 4.309 Area 1530467
Q 332.00>286.80 (-) 4.93e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.309 Area 1530467
ISTD 332.00>286.80 (-) 4.93e5



ADONA
Conc 0.0927
RT 4.438 Area 77868
Q 377.00>251.00 (-) 2.12e4



Manual Integration - Before

Insight Report

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190920_010

Sample ID: 0.50 PPB ICAL
Date acquired: 9/20/2019 4:00:21 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_010.lcd
Vial: 3 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.135	6052010	6052010	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.040	184179	1495066	2	0.4638	ng/mL	0.4437
PFBS-13C	Auto	4.043	1495718	6052010	1	5.0631	ng/mL	5.0000
PFBS-13C_IS	Auto	4.043	1495066	1495066	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.261	63616	1495066	2	0.5044	ng/mL	0.4705
PFHxS_1	Auto	4.420	117629	962103	3	0.4376	ng/mL	0.4565
PFHxS-18O	Auto	4.424	962103	6052010	1	5.8352	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.424	962103	962103	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.589	112713	962103	3	0.4646	ng/mL	0.4767
PFOS_1	Auto	4.759	90349	877059	4	0.4926	ng/mL	0.4646
PFOS-13C	Auto	4.759	877059	6052010	1	5.3361	ng/mL	5.0000
PFOS-13C_IS	Auto	4.759	877059	877059	4	5.0000	ng/mL	5.0000
PFNS	M	4.939	59013	877059	4	0.4899	ng/mL	0.4808
PFDS_1	Auto	5.115	98975	877059	4	0.5901	ng/mL	0.4823
PFDOS	Auto	5.450	75715	877059	4	0.3988	ng/mL	0.4848
9Cl-PF3ONS	Auto	4.863	633442	877059	4	0.4884	ng/mL	0.4666
11Cl-PF3OUdS	Auto	5.215	271710	877059	4	0.3484	ng/mL	0.4716
PFBA	M	3.449	474222	5088408	5	0.4903	ng/mL	0.5000
PFBA-13C	Auto	3.448	5088408	6052010	1	5.2659	ng/mL	5.0000
PFBA-13C_IS	Auto	3.448	5088408	5088408	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.990	762111	3356076	6	0.4967	ng/mL	0.5000
PFPeA-13C	Auto	3.990	3356076	6052010	1	5.3024	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.990	3356076	3356076	6	5.0000	ng/mL	5.0000
PFHxA	M	4.242	762483	9194003	7	0.4718	ng/mL	0.5000
PFHxA-13C	Auto	4.242	9194003	6052010	1	6.2968	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.242	9194003	9194003	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.422	732475	7883207	8	0.4512	ng/mL	0.5000
PFHpA-13C	Auto	4.423	7883207	6052010	1	6.3856	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.423	7883207	7883207	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.594	850897	7360222	9	0.4841	ng/mL	0.5000
PFOA-13C	Auto	4.594	7360222	6052010	1	5.0538	ng/mL	5.0000
PFOA-13C_IS	Auto	4.594	7360222	7360222	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.770	572478	6756457	10	0.4730	ng/mL	0.5000
PFNA-13C	Auto	4.770	6756457	6052010	1	6.1055	ng/mL	5.0000
PFNA-13C_IS	Auto	4.770	6756457	6756457	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.952	441179	4745658	11	0.4315	ng/mL	0.5000
PFDA-13C	Auto	4.953	4745658	6052010	1	4.8525	ng/mL	5.0000
PFDA-13C_IS	Auto	4.953	4745658	4745658	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.136	399953	4666146	12	0.4728	ng/mL	0.5000
PFUnA-13C	Auto	5.136	4666146	6052010	1	5.3884	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.136	4666146	4666146	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.310	422812	6397547	13	0.5008	ng/mL	0.5000
PFDoA-13C	Auto	5.309	6397547	6052010	1	4.4986	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.309	6397547	6397547	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.474	789192	10159455	14	0.5066	ng/mL	0.5000
PFTeDA	Auto	5.624	592514	10159455	14	0.4811	ng/mL	0.5000
PFTeDA-13C	Auto	5.624	10159455	6052010	1	5.5400	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.624	10159455	10159455	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.963	737273	8909711	15	0.4971	ng/mL	0.5000
13C-PFHxDA	Auto	5.962	8909711	6052010	1	5.2698	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.962	8909711	8909711	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.484	496872	8909711	15	0.4774	ng/mL	0.5000
FOSA	Auto	5.232	305841	2696899	16	0.5003	ng/mL	0.5000
FOSA-13C	Auto	5.232	2696899	6052010	1	4.9021	ng/mL	5.0000
FOSA-13C_IS	Auto	5.232	2696899	2696899	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.620	120553	880260	17	0.4701	ng/mL	0.5000
N-MeFOSA-d3	Auto	5.617	880260	6052010	1	5.4228	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.617	880260	880260	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.759	22901	1228992	18	0.5190	ng/mL	0.5000
N-EtFOSA-d9	Auto	5.752	1228992	6052010	1	5.2546	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.752	1228992	1228992	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.594	135155	870340	19	0.5199	ng/mL	0.5000
N-MeFOSE-d7	Auto	5.586	870340	6052010	1	5.1051	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.586	870340	870340	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.723	148487	643334	20	0.5390	ng/mL	0.5000
N-EtFOSE-d9	Auto	5.712	643334	6052010	1	5.2148	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.712	643334	643334	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.051	66394	835859	21	0.4868	ng/mL	0.5000

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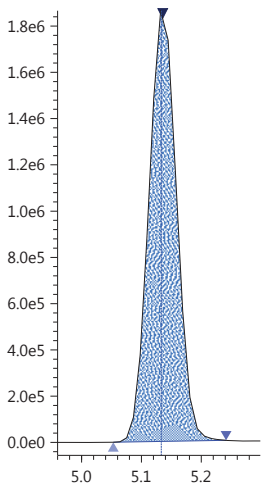
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.050	835859	6052010	1	5.2719	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.050	835859	835859	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.147	51959	742402	22	0.5662	ng/mL	0.5000
N-EtFOSAA-d5	Auto	5.147	742402	6052010	1	5.7547	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.147	742402	742402	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.212	38547	422870	23	0.4848	ng/mL	0.4686
4_2-FTS-13C	Auto	4.212	422870	6052010	1	3.8953	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.212	422870	422870	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.581	65399	665189	24	0.5392	ng/mL	0.4756
6_2-FTS-13C	Auto	4.581	665189	6052010	1	5.7488	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.581	665189	665189	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.948	33860	439789	25	0.5186	ng/mL	0.4800
8_2-FTS-13C	Auto	4.949	439789	6052010	1	6.1604	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.949	439789	439789	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.313	29194	439789	25	0.4118	ng/mL	0.4831
HPFO_DA	Auto	4.310	176624	1587065	26	0.6595	ng/mL	0.5000
HFPO_DA-13C	Auto	4.308	1587065	6052010	1	4.3509	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.308	1587065	1587065	26	5.0000	ng/mL	5.0000
ADONA	M	4.440	469645	1587065	26	0.5371	ng/mL	0.4725

13C7-PFUnDA_IS

Conc 5.0000
RT 5.135 Area 6052010

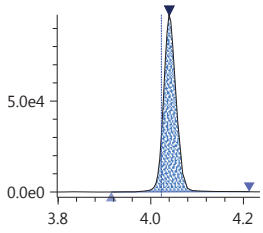
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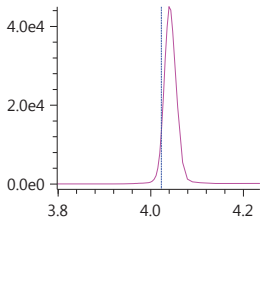
PFBS_1

Conc 0.4638
RT 4.040 Area 184179
R#1 46.22 (0.00)

Q 299.00>80.00 (-) 9.75e4



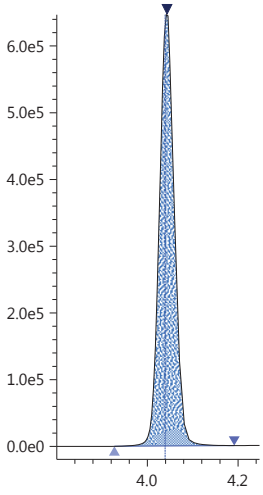
R1 298.80>99.00 (-) 4.50e4



PFBS-13C

Conc 5.0631
RT 4.043 Area 1495718

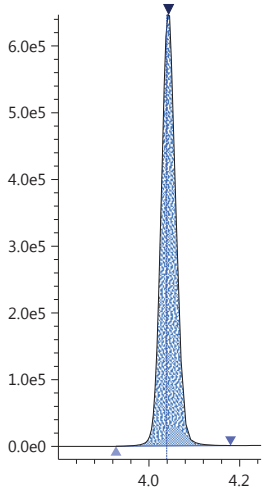
Q 301.80>80.00 (-) 6.47e5



PFBS-13C_IS

Conc 5.0000
RT 4.043 Area 1495066

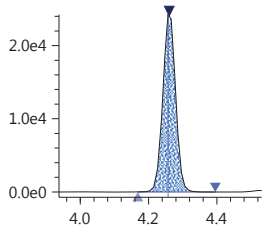
ISTD 301.80>80.00 (-) 6.47e5



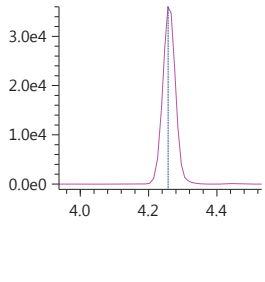
PFPeS

Conc 0.5044
RT 4.261 Area 63616
R#1 148.56 (0.00)

Q 349.00>99.00 (-) 2.42e4



R1 349.00>79.95 (-) 3.60e4



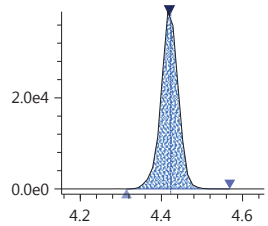
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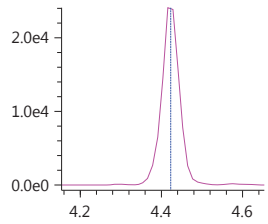
PFHxS_1

Conc 0.4376
RT 4.420 Area 117629
R#1 61.22 (0.00)

Q 399.00>80.00 (-) 3.89e4



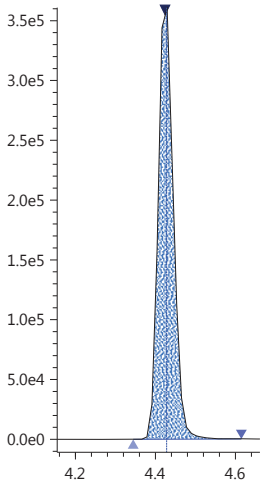
R1 399.00>99.00 (-) 2.41e4



PFHxS-18O

Conc 5.8352
RT 4.424 Area 962103

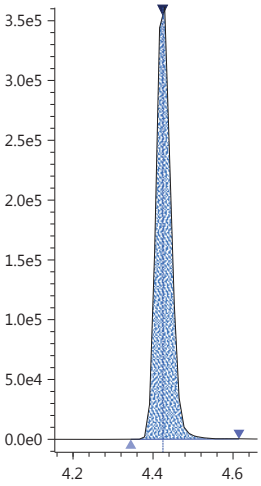
Q 402.70>84.05 (-) 3.61e5



PFHxS-18O_IS

Conc 5.0000
RT 4.424 Area 962103

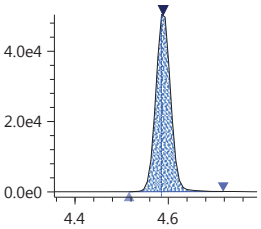
ISTD 402.70>84.05 (-) 3.61e5



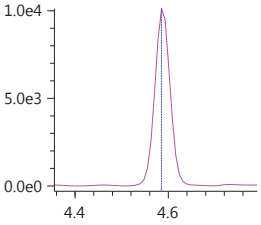
PFHpS_1

Conc 0.4646
RT 4.589 Area 112713
R#1 20.08 (0.00)

Q 449.00>80.15 (-) 5.04e4



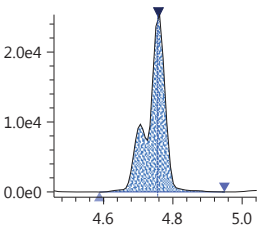
R1 449.00>99.20 (-) 1.01e4



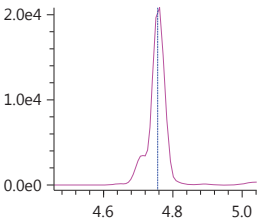
PFOS_1

Conc 0.4926
RT 4.759 Area 90349
R#1 81.95 (0.00)

Q 499.00>80.00 (-) 2.53e4



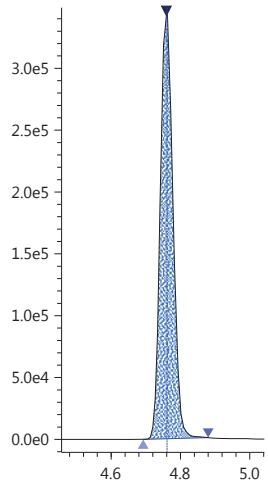
R1 499.00>99.00 (-) 2.08e4



PFOS-13C

Conc 5.3361
RT 4.759 Area 877059

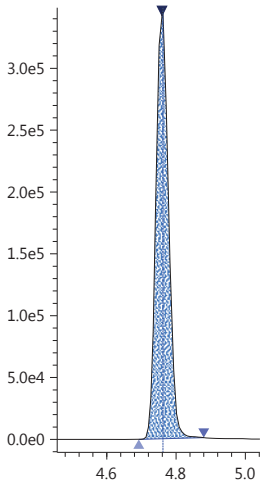
Q 502.80>80.05 (-) 3.49e5



PFOS-13C_IS

Conc 5.0000
RT 4.759 Area 877059

ISTD 502.80>80.05 (-) 3.49e5

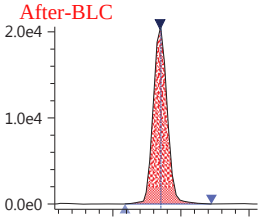


PFNS

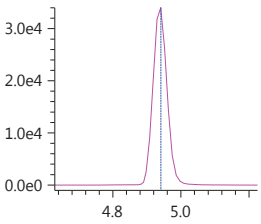
Conc 0.4899
RT 4.939 Area 59013
R#1 164.50 (0.00)

Q 549.00>99.00 (-) 2.06e4

After-BLC



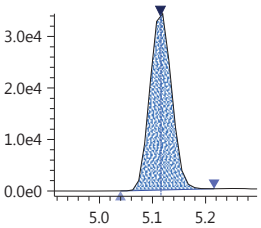
R1 549.00>79.95 (-) 3.40e4



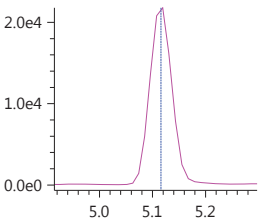
PFDS_1

Conc 0.5901
RT 5.115 Area 98975
R#1 63.48 (0.00)

Q 599.00>79.90 (-) 3.44e4



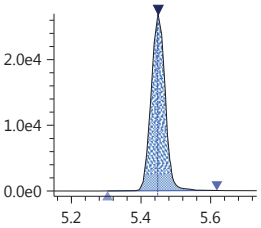
R1 599.00>99.10 (-) 2.18e4



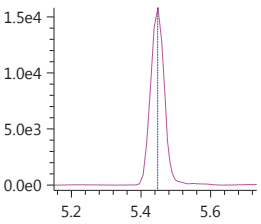
PFDOS

Conc 0.3988
RT 5.450 Area 75715
R#1 58.37 (0.00)

Q 699.00>79.95 (-) 2.70e4



R1 699.00>99.05 (-) 1.58e4



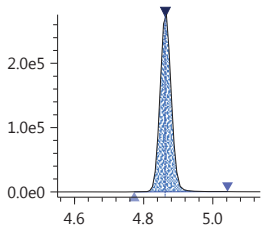
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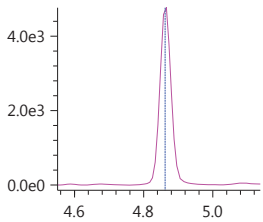
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Conc 0.4884
RT 4.863 Area 633442
R#1 1.76 (0.00)

Q 531.00>351.00 (-) 2.76e5



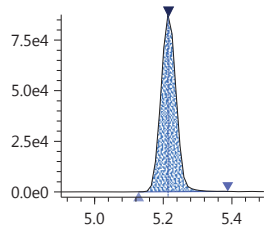
R1 531.00>98.90 (-) 4.76e3



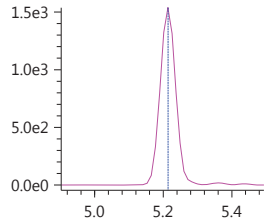
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Conc 0.3484
RT 5.215 Area 271710
R#1 1.76 (0.00)

Q 631.00>451.05 (-) 8.76e4



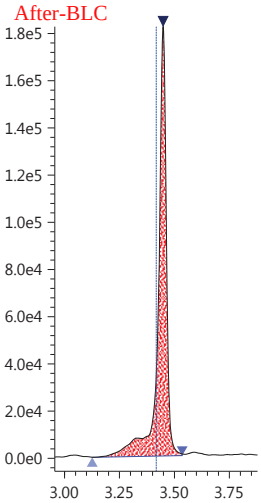
R1 631.00>98.90 (-) 1.54e3



PFBA

Conc 0.4903
RT 3.449 Area 474222

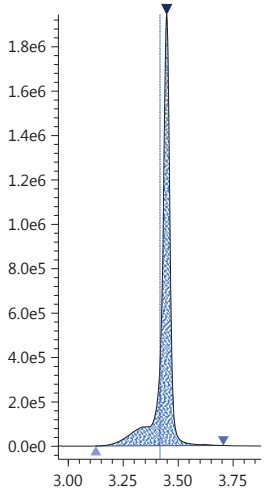
Q 213.00>169.10 (-) 1.83e5



PFBA-13C

Conc 5.2659
RT 3.448 Area 5088408

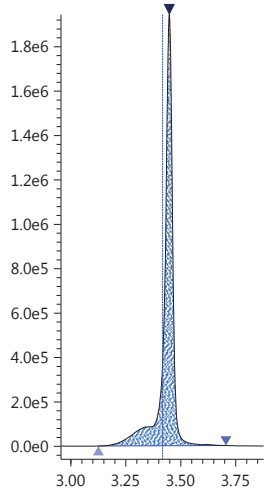
Q 216.90>172.15 (-) 1.94e6



PFBA-13C_IS

Conc 5.0000
RT 3.448 Area 5088408

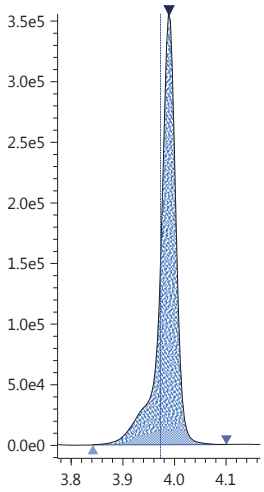
ISTD 216.90>172.15 (-) 1.94e6



PFPeA

Conc 0.4967
RT 3.990 Area 762111

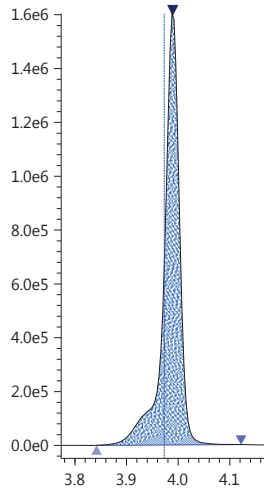
Q 263.05>219.10 (-) 3.56e5



PFPeA-13C

Conc 5.3024
RT 3.990 Area 3356076

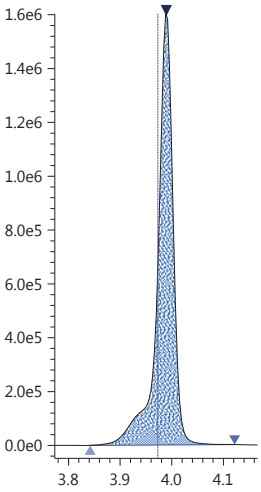
Q 267.90>223.00 (-) 1.60e6



PFPeA-13C_IS

Conc 5.0000
RT 3.990 Area 3356076

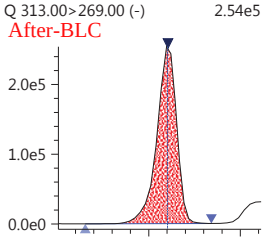
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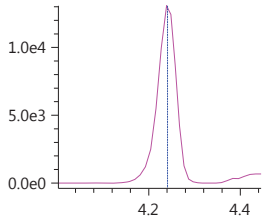
PFHxA

Conc 0.4718
RT 4.242 Area 762483
R#1 5.15 (0.00)

Q 313.00>269.00 (-) 2.54e5



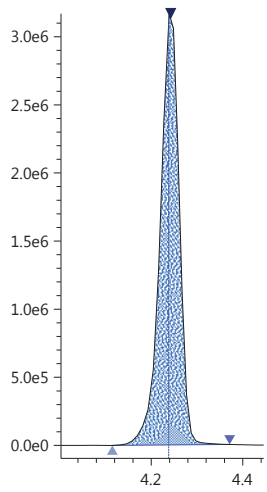
R1 313.00>119.10 (-) 1.31e4



PFHxA-13C

Conc 6.2968
RT 4.242 Area 9194003

Q 314.90>270.10 (-) 3.17e6



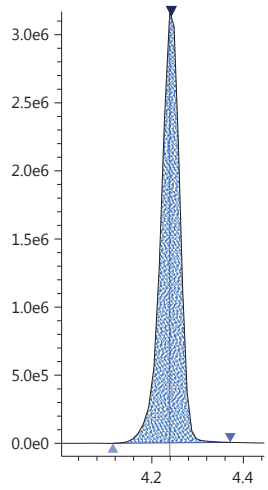
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PFHxA-13C_IS

Conc 5.0000
RT 4.242 Area 9194003

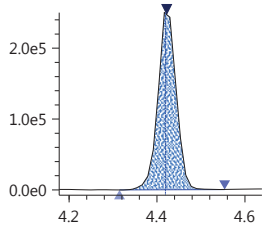
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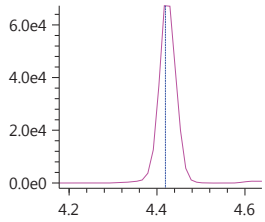
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Conc 0.4512
RT 4.422 Area 732475
R#1 27.40 (0.00)

Q 362.90>319.00 (-) 2.50e5



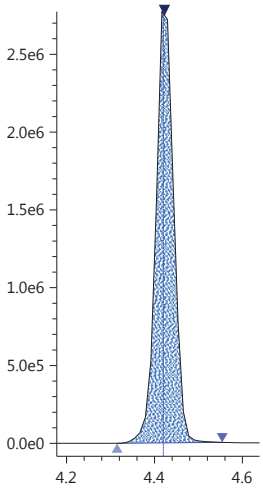
R1 362.90>169.00 (-) 6.73e4



PFHpA-13C

Conc 6.3856
RT 4.423 Area 7883207

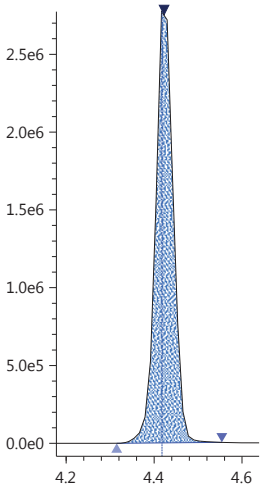
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PFHpA-13C_IS

Conc 5.0000
RT 4.423 Area 7883207

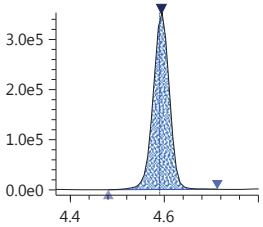
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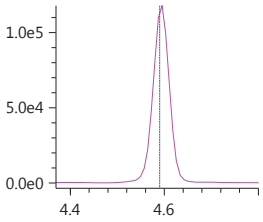
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Conc 0.4841
RT 4.594 Area 850897
R#1 33.34 (0.00)

Q 413.00>369.00 (-) 3.53e5



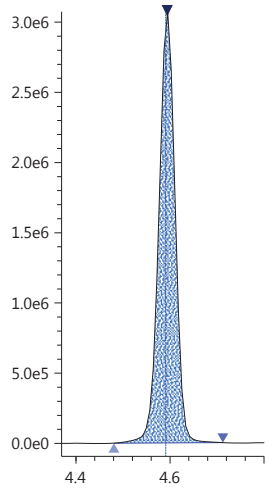
R1 413.00>169.10 (-) 1.18e5



PFOA-13C

Conc 5.0538
RT 4.594 Area 7360222

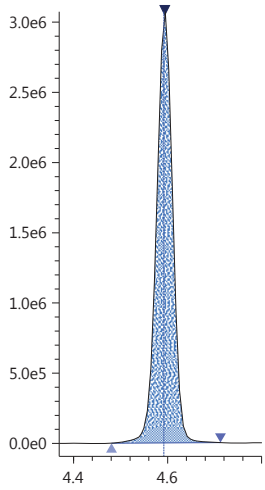
Q 416.80>372.05 (-) 3.07e6



PFOA-13C_IS

Conc 5.0000
RT 4.594 Area 7360222

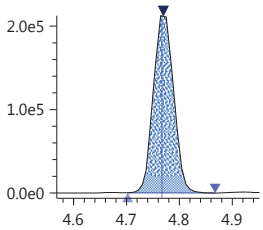
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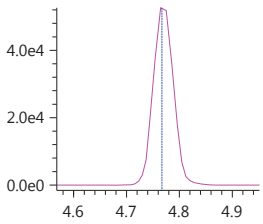
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Conc 0.4730
RT 4.770 Area 572478
R#1 24.58 (0.00)

Q 463.00>418.90 (-) 2.13e5



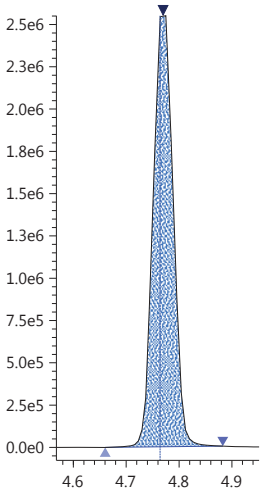
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PFNA-13C

Conc 6.1055
RT 4.770 Area 6756457

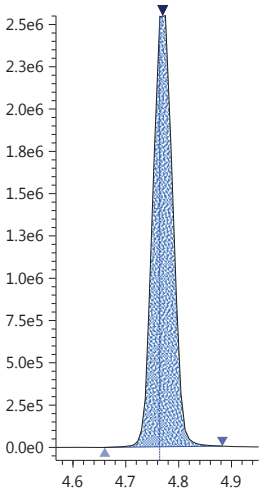
Q 467.80>423.00 (-) 2.55e6



PFNA-13C_IS

Conc 5.0000
RT 4.770 Area 6756457

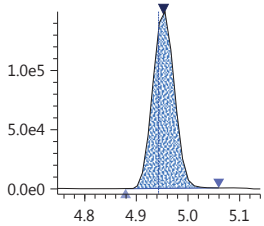
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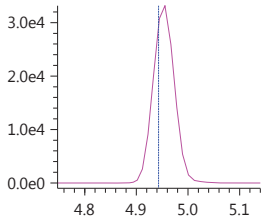
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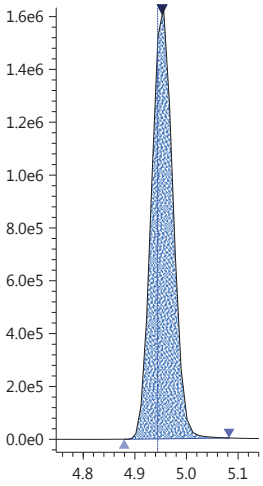
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Conc 0.4315
RT 4.952 Area 441179
R#1 22.16 (0.00)
Q 513.00>468.80 (-) 1.50e5



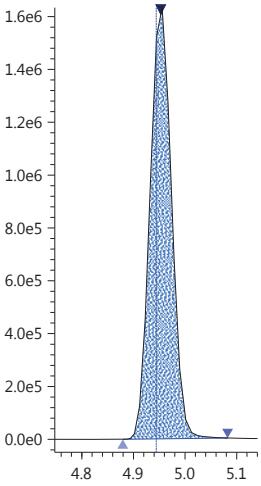
R1 513.00>219.10 (-) 3.32e4



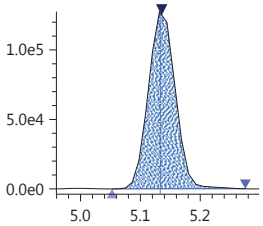
PFDA-13C
Conc 4.8525
RT 4.953 Area 4745658
Q 514.80>469.95 (-) 1.63e6



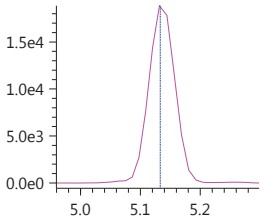
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Conc 5.0000
RT 4.953 Area 4745658
ISTD 514.80>469.95 (-) 1.63e6



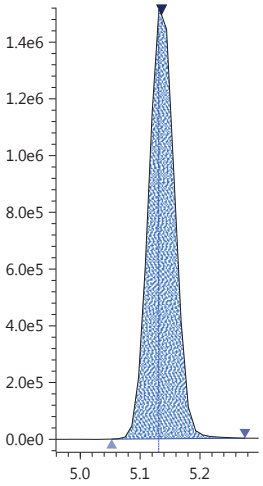
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Conc 0.4728
RT 5.136 Area 399953
R#1 14.71 (0.00)
Q 563.00>518.90 (-) 1.28e5



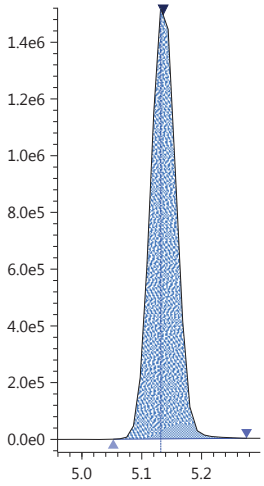
R1 563.00>219.00 (-) 1.89e4



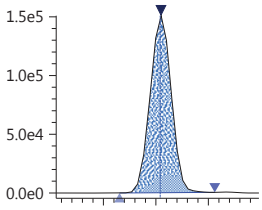
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Conc 5.3884
RT 5.136 Area 4666146
Q 564.80>519.95 (-) 1.52e6



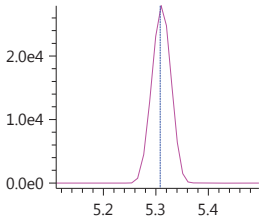
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RT 5.136 Area 4666146
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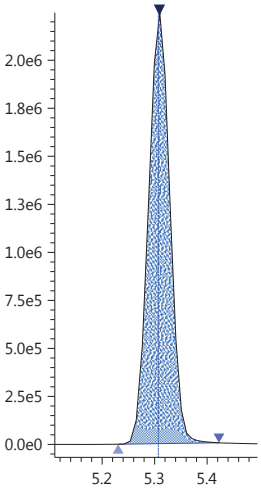
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Conc 0.5008
RT 5.310 Area 422812
R#1 18.42 (0.00)
Q 613.05>569.00 (-) 1.51e5



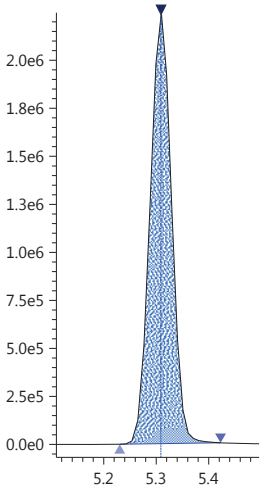
R1 613.05>169.00 (-) 2.79e4



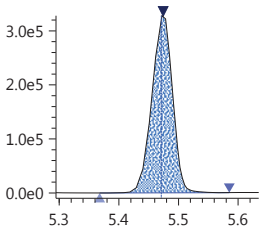
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Conc 4.4986
RT 5.309 Area 6397547
Q 614.80>569.95 (-) 2.25e6



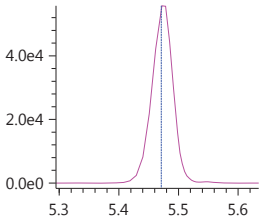
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Conc 5.0000
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ISTD 614.80>569.95 (-) 2.25e6



PFTrDA
Conc 0.5066
RT 5.474 Area 789192
R#1 17.22 (0.00)
Q 663.00>618.90 (-) 3.28e5



R1 662.90>169.00 (-) 5.57e4



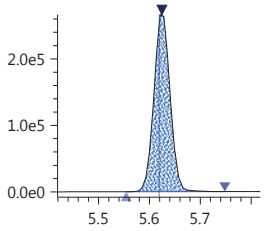
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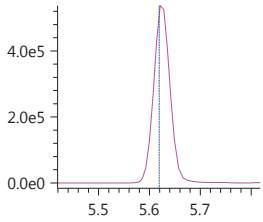
PFTeDA

Conc 0.4811
RT 5.624 Area 592514
R#1 201.49 (0.00)

Q 713.40>669.00 (-) 2.67e5



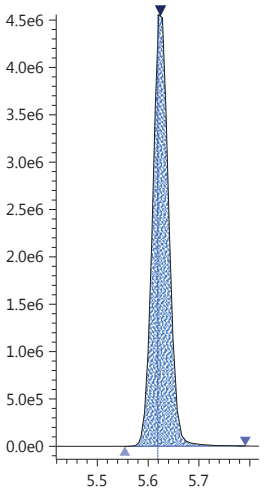
R1 713.40>169.10 (-) 5.37e5



PFTeDA-13C

Conc 5.5400
RT 5.624 Area 10159455

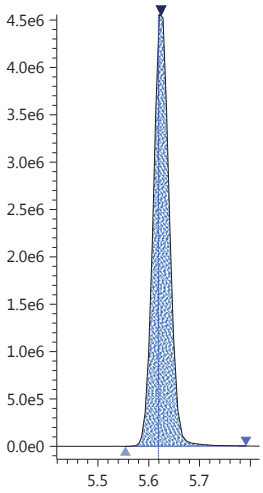
Q 714.70>669.90 (-) 4.56e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.624 Area 10159455

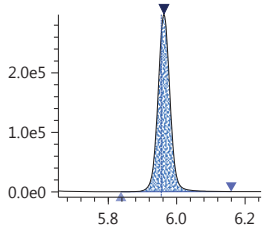
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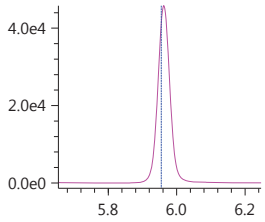
PFHxDA

Conc 0.4971
RT 5.963 Area 737273
R#1 15.19 (0.00)

Q 813.00>769.05 (-) 2.98e5



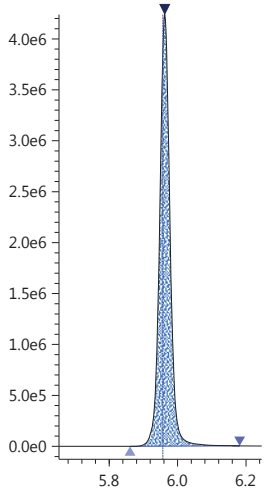
R1 813.00>218.95 (-) 4.58e4



13C-PFHxDA

Conc 5.2698
RT 5.962 Area 8909711

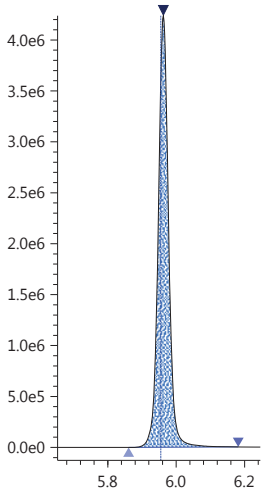
Q 815.00>770.05 (-) 4.24e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.962 Area 8909711

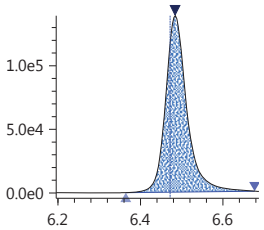
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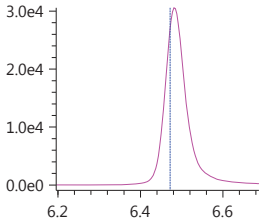
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Conc 0.4774
RT 6.484 Area 496872
R#1 21.99 (0.00)

Q 913.00>868.85 (-) 1.39e5



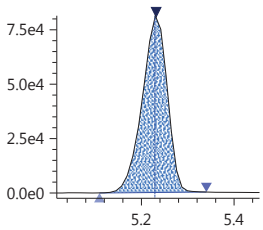
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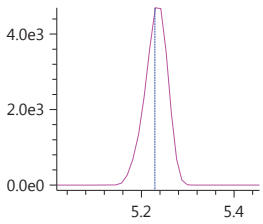
FOSA

Conc 0.5003
RT 5.232 Area 305841
R#1 5.74 (0.00)

Q 498.20>78.00 (-) 8.15e4



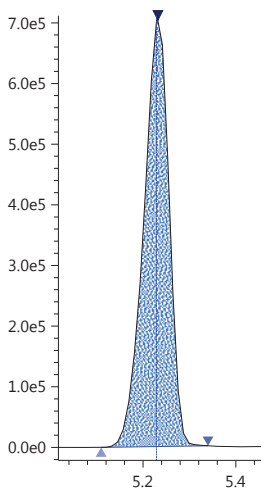
R1 498.20>64.10 (-) 4.70e3



FOSA-13C

Conc 4.9021
RT 5.232 Area 2696899

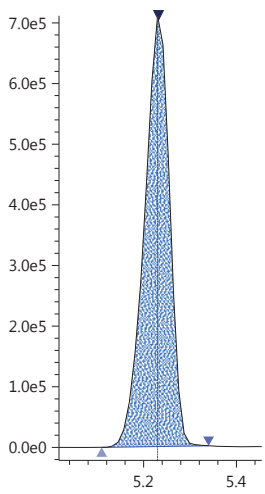
Q 506.00>78.05 (-) 7.12e5



FOSA-13C_IS

Conc 5.0000
RT 5.232 Area 2696899

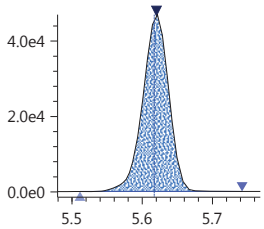
ISTD 506.00>78.05 (-) 7.12e5



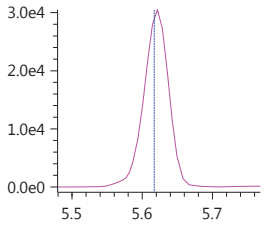
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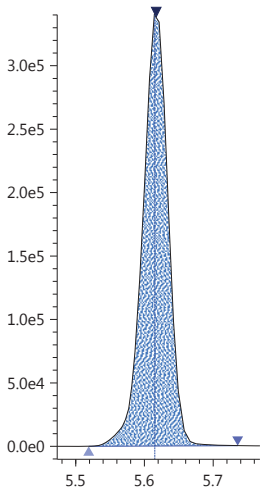
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Conc 0.4701
RT 5.620 Area 120553
R#1 65.07 (0.00)
Q 512.00>169.10 (-) 4.70e4



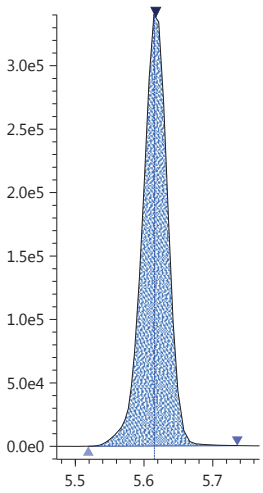
R1 512.00>219.00 (-) 3.05e4



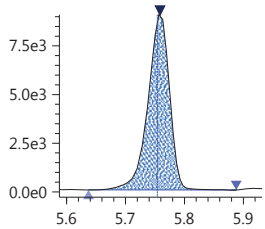
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Conc 5.4228
RT 5.617 Area 880260
Q 514.90>168.90 (-) 3.40e5



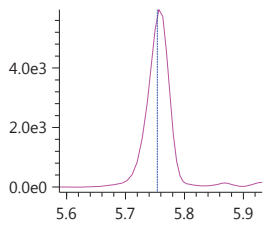
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Conc 5.0000
RT 5.617 Area 880260
ISTD 514.90>168.90 (-) 3.40e5



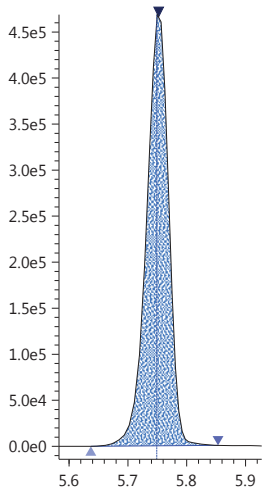
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Conc 0.5190
RT 5.759 Area 22901
R#1 66.08 (0.00)
Q 526.90>169.10 (-) 9.11e3



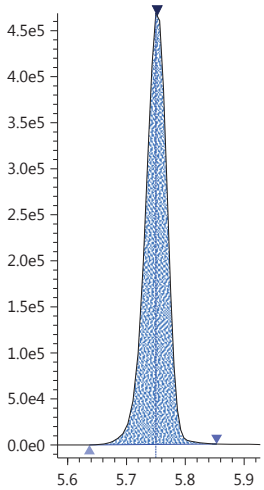
R1 526.90>219.00 (-) 5.96e3



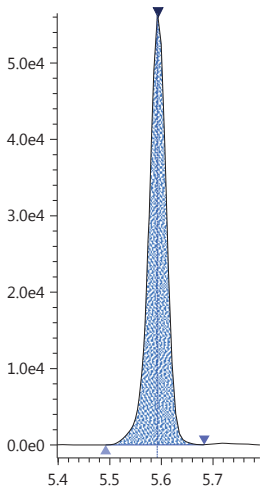
N-EtFOSA-d9
Conc 5.2546
RT 5.752 Area 1228992
Q 530.90>169.15 (-) 4.69e5



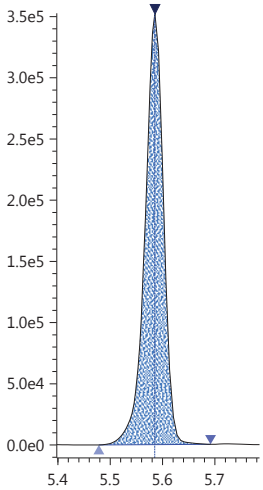
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.752 Area 1228992
ISTD 530.90>169.15 (-) 4.69e5



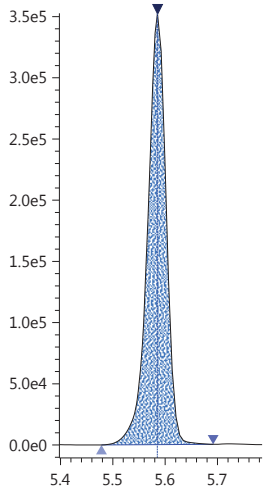
N-MeFOSE
Conc 0.5199
RT 5.594 Area 135155
Q 616.00>59.00 (-) 5.65e4



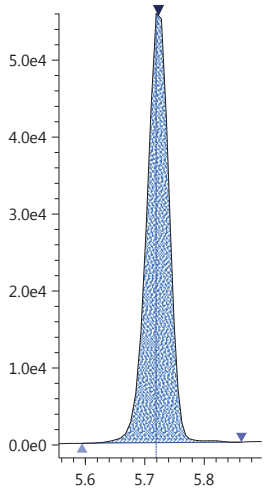
N-MeFOSE-d7
Conc 5.1051
RT 5.586 Area 870340
Q 622.70>59.10 (-) 3.53e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.586 Area 870340
ISTD 622.70>59.10 (-) 3.53e5



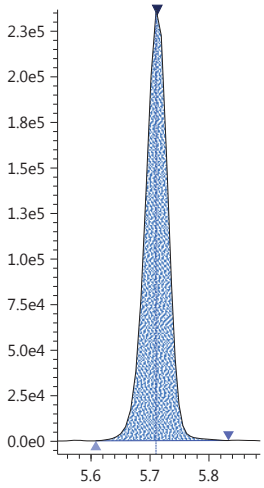
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Conc 0.5390
RT 5.723 Area 148487
Q 630.00>58.90 (-) 5.61e4



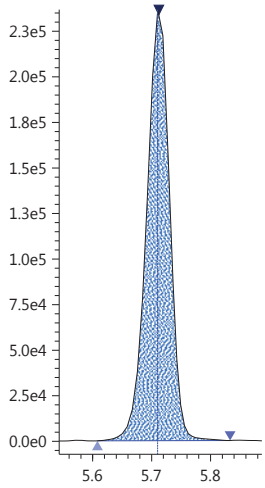
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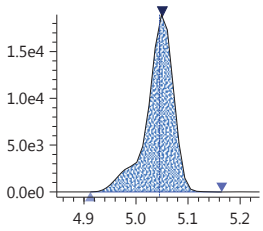
N-EtFOSE-d9
Conc 5.2148
RT 5.712 Area 643334
Q 638.70>59.10 (-) 2.37e5



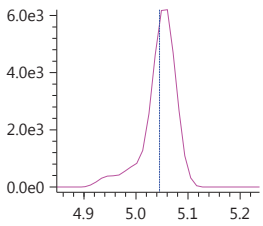
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Conc 5.0000
RT 5.712 Area 643334
ISTD 638.70>59.10 (-) 2.37e5



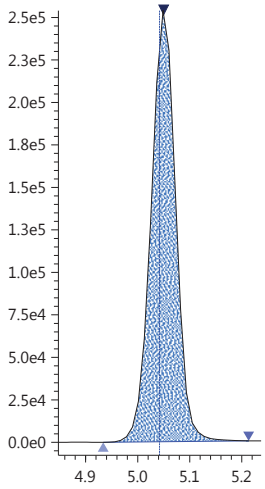
N-MeFOSAA
Conc 0.4868
RT 5.051 Area 66394
R#1 32.44 (0.00)
Q 570.20>419.00 (-) 1.89e4



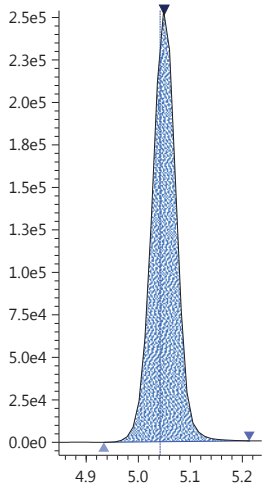
R1 570.20>512.00 (-) 6.20e3



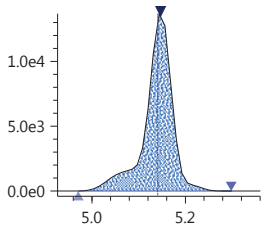
N-MeFOSAA-d3
Conc 5.2719
RT 5.050 Area 835859
Q 572.80>419.05 (-) 2.54e5



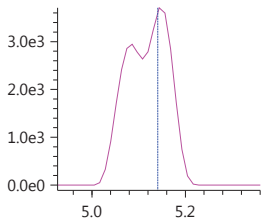
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.050 Area 835859
ISTD 572.80>419.05 (-) 2.54e5



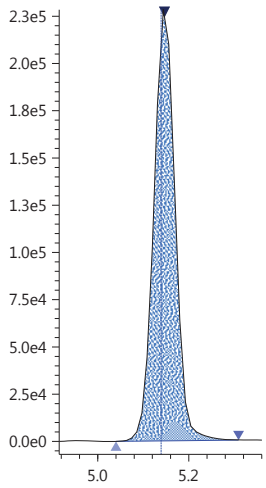
N-EtFOSAA
Conc 0.5662
RT 5.147 Area 51959
R#1 27.78 (0.00)
Q 584.20>418.95 (-) 1.37e4



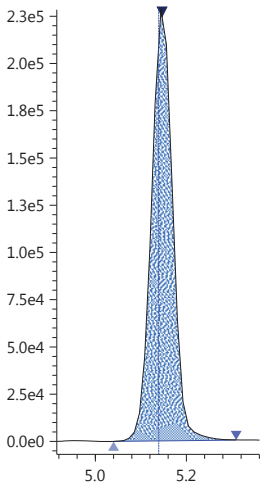
R1 584.20>526.10 (-) 3.71e3



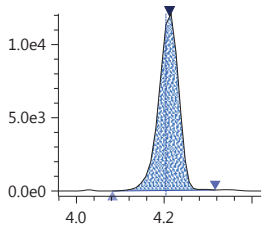
N-EtFOSAA-d5
Conc 5.7547
RT 5.147 Area 742402
Q 588.80>419.00 (-) 2.28e5



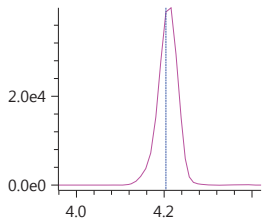
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.147 Area 742402
ISTD 588.80>419.00 (-) 2.28e5



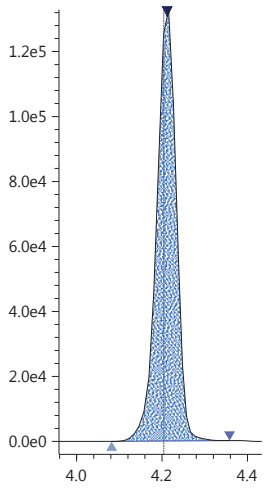
4_2-FTS_1
Conc 0.4848
RT 4.212 Area 38547
R#1 343.16 (0.00)
Q 327.00>307.05 (-) 1.21e4



R1 327.00>81.10 (-) 3.99e4



4_2-FTS-13C
Conc 3.8953
RT 4.212 Area 422870
Q 328.80>309.05 (-) 1.33e5

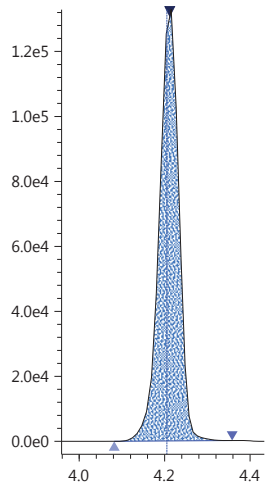


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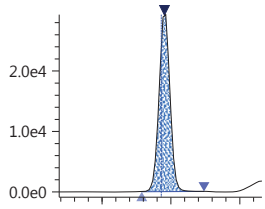
4_2-FTS-13C_IS
Conc 5.0000
RT 4.212 Area 422870

ISTD 328.80>309.05 (-) 1.33e5

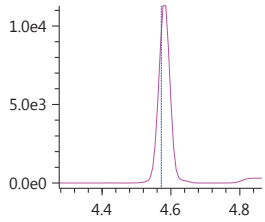


6_2-FTS_1
Conc 0.5392
RT 4.581 Area 65399
R#1 38.89 (0.00)

Q 427.00>407.00 (-) 2.93e4

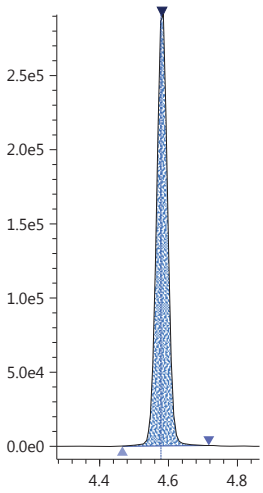


R1 427.00>80.90 (-) 1.13e4



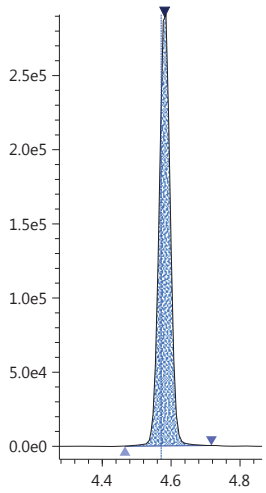
6_2-FTS-13C
Conc 5.7488
RT 4.581 Area 665189

Q 428.90>409.00 (-) 2.91e5



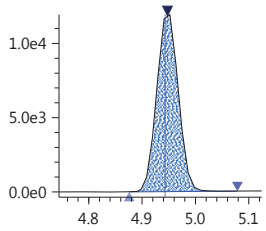
6_2-FTS-13C_IS
Conc 5.0000
RT 4.581 Area 665189

ISTD 428.90>409.00 (-) 2.91e5

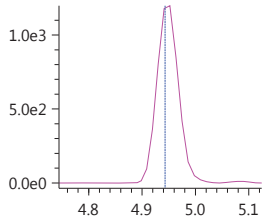


8_2-FTS_1
Conc 0.5186
RT 4.948 Area 33860
R#1 10.07 (0.00)

Q 527.10>506.90 (-) 1.19e4

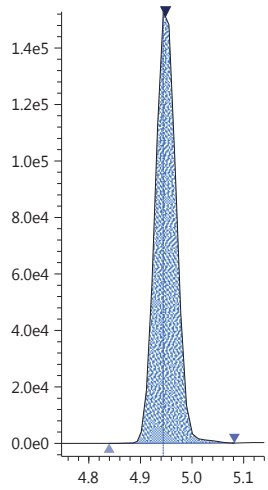


R1 527.20>487.00 (-) 1.20e3



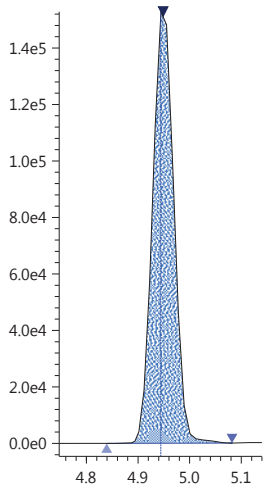
8_2-FTS-13C
Conc 6.1604
RT 4.949 Area 439789

Q 528.80>509.00 (-) 1.53e5



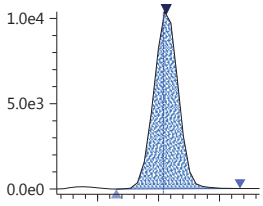
8_2-FTS-13C_IS
Conc 5.0000
RT 4.949 Area 439789

ISTD 528.80>509.00 (-) 1.53e5

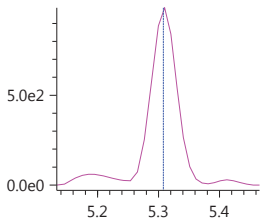


10_2-FtS_1
Conc 0.4118
RT 5.313 Area 29194
R#1 9.33 (0.00)

Q 627.00>606.95 (-) 1.04e4

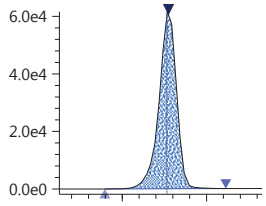


R1 627.00>81.25 (-) 9.87e2

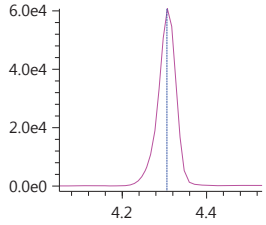


HPFO_DA
Conc 0.6595
RT 4.310 Area 176624
R#1 98.78 (0.00)

Q 329.00>169.00 (-) 6.16e4

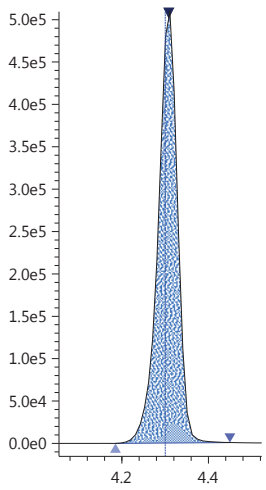


R1 329.00>285.10 (-) 6.07e4



HFPO_DA-13C
Conc 4.3509
RT 4.308 Area 1587065

Q 332.00>286.80 (-) 5.09e5

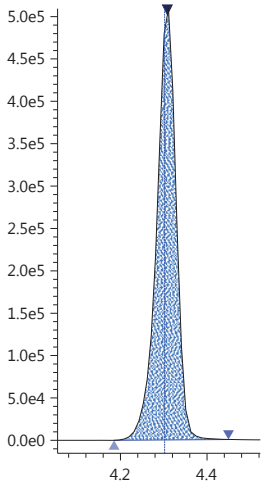


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HFPO_DA-13C_IS

Conc 5.0000
RT 4.308 Area 1587065

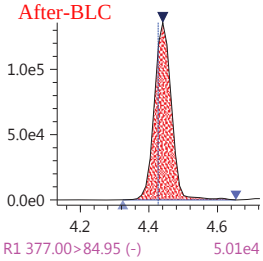
ISTD 332.00>286.80 (-) 5.09e5



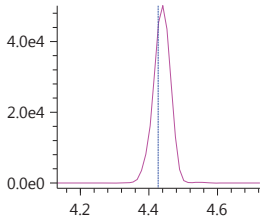
ADONA

Conc 0.5371
RT 4.440 Area 469645
R#1 36.95 (0.00)

Q 377.00>251.00 (-) 1.36e5



R1 377.00>84.95 (-) 5.01e4



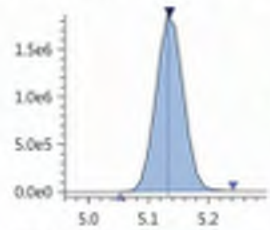
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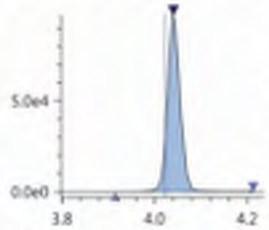
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Date acquired: 9/20/2019 4:00:21 PM
Acquired by: System Administrator
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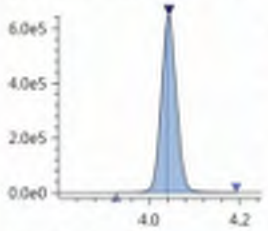
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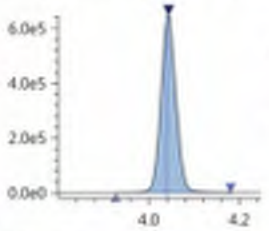
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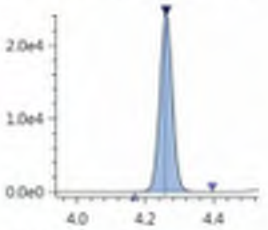
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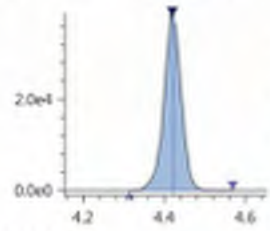
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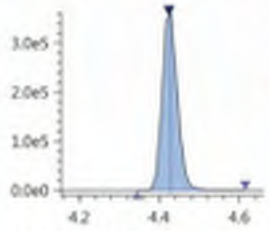
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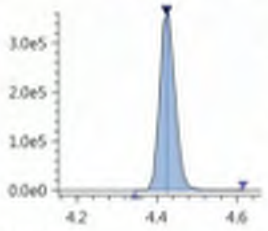
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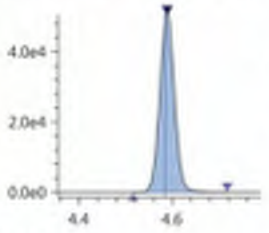
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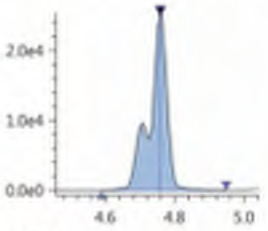
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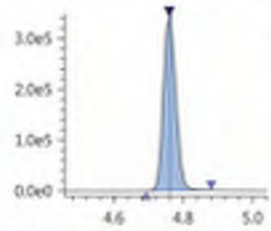
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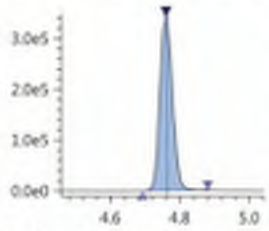
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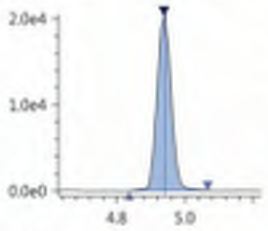
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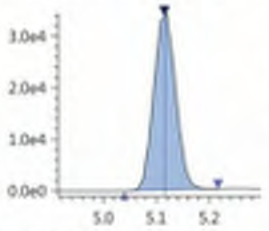
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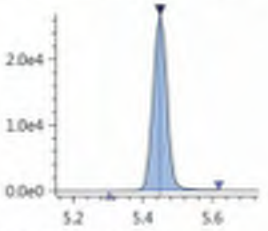
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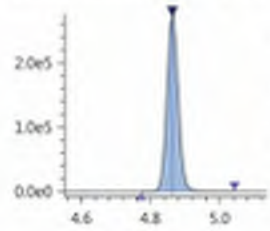
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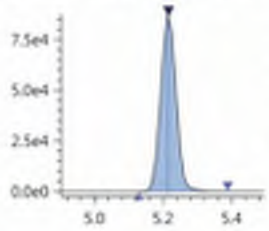
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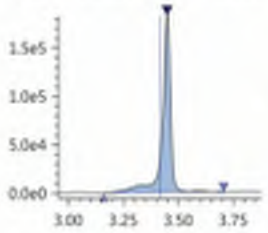
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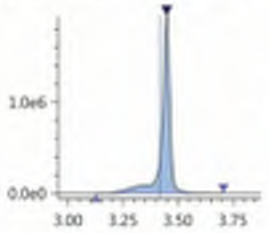
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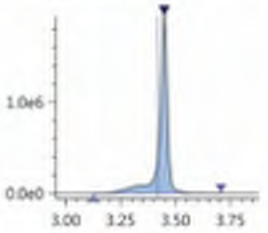
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RT 3.449 Area 478556
Q 213.00>169.10 (-) 1.83e5



PFBA-13C
Conc 5.2659
RT 3.448 Area 5088408
Q 216.90>172.15 (-) 1.94e6



PFBA-13C_IS
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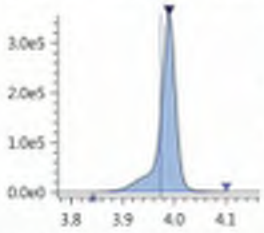


Manual Integration - Before

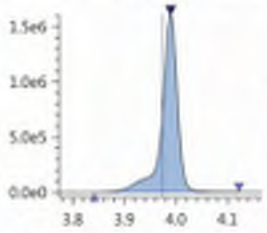
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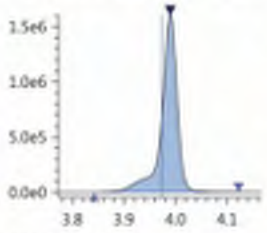
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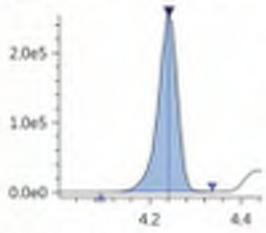
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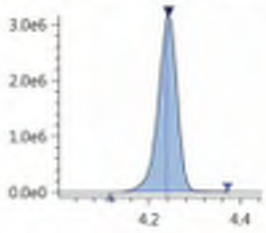
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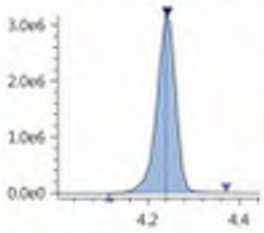
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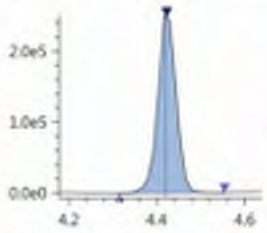
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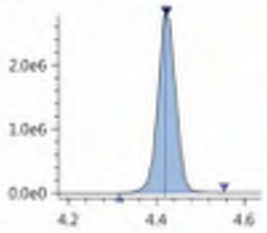
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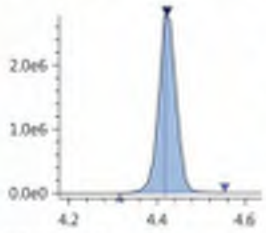
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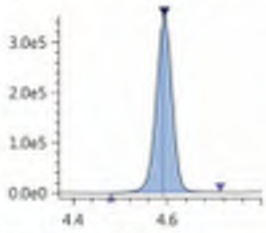
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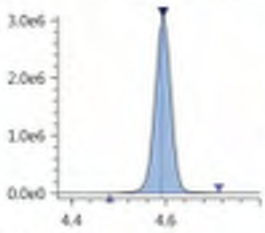
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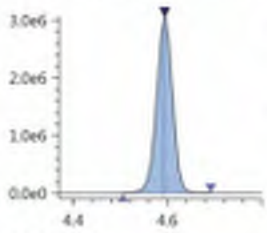
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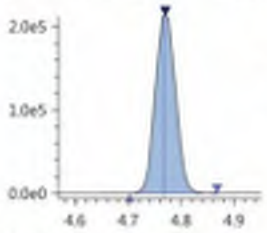
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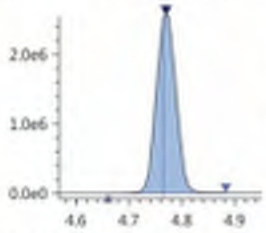
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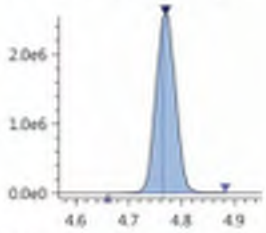
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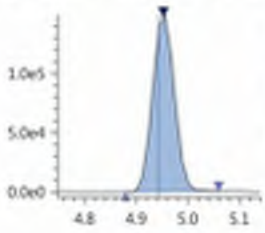
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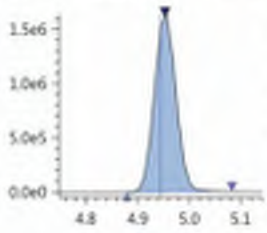
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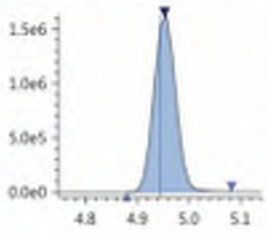
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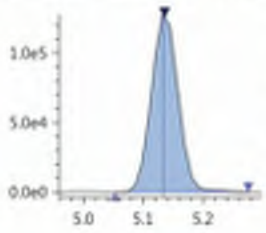
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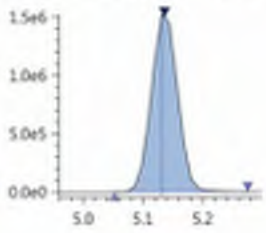
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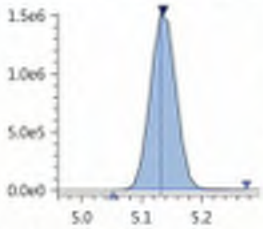
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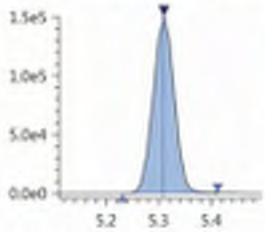
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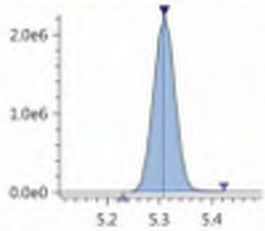
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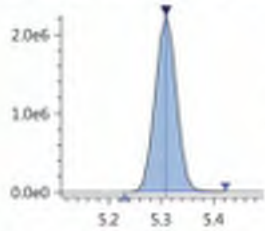
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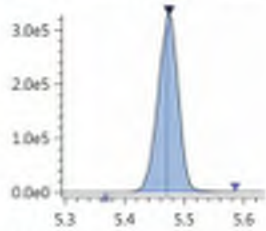
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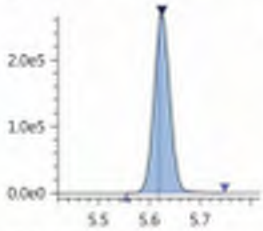
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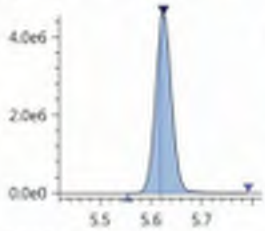
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RT 5.474 Area 789192
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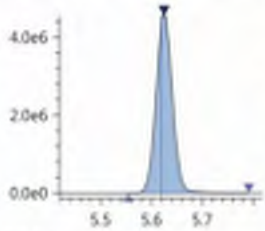
PFTeDA
Conc 0.4774
RT 5.624 Area 592514
Q 713.40>669.00 (-) 2.67e5



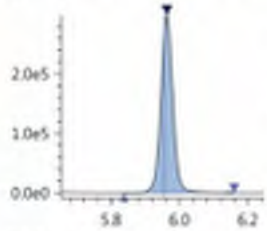
PFTeDA-13C
Conc 5.5400
RT 5.624 Area 10159455
Q 714.70>669.90 (-) 4.56e6



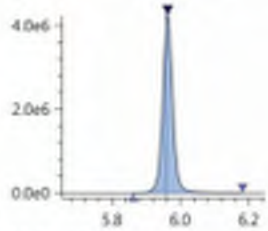
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Conc 5.0000
RT 5.624 Area 10159455
ISTD 714.70>669.90 (-) 4.56e6



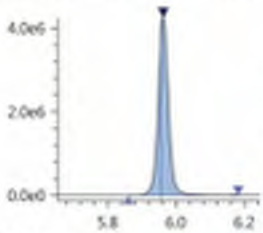
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Conc 0.4861
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Q 813.00>769.05 (-) 2.98e5



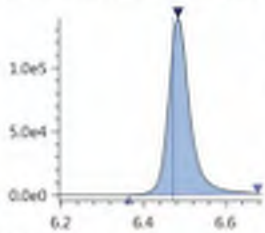
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Conc 5.2698
RT 5.962 Area 8909711
Q 815.00>770.05 (-) 4.24e6



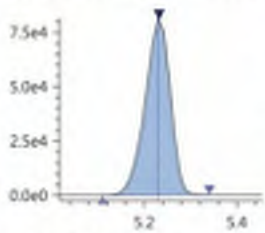
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Conc 5.0000
RT 5.962 Area 8909711
ISTD 815.00>770.05 (-) 4.24e6



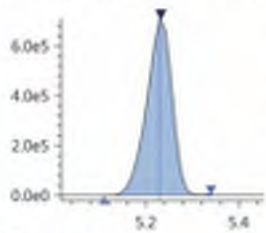
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Conc 0.4774
RT 6.484 Area 496872
Q 913.00>868.85 (-) 1.39e5



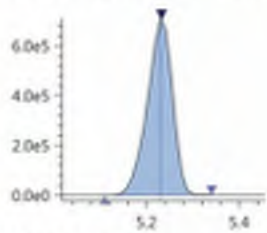
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Conc 0.5002
RT 5.232 Area 305841
Q 498.20>78.00 (-) 8.15e4



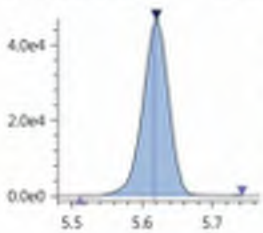
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Conc 4.9021
RT 5.232 Area 2696899
Q 506.00>78.05 (-) 7.12e5



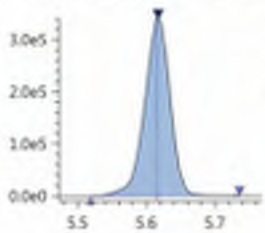
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RT 5.232 Area 2696899
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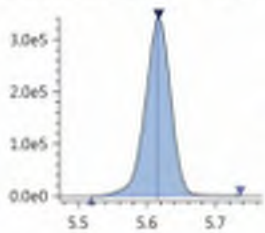
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Conc 0.4693
RT 5.620 Area 120553
Q 512.00>169.10 (-) 4.70e4



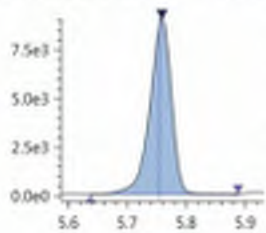
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Conc 5.4228
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Q 514.90>168.90 (-) 3.40e5



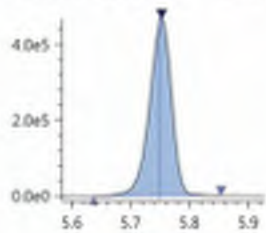
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.617 Area 880260
ISTD 514.90>168.90 (-) 3.40e5



N-EtFOSA
Conc 0.4832
RT 5.759 Area 22901
Q 526.90>169.10 (-) 9.11e3



N-EtFOSA-d9
Conc 5.2546
RT 5.752 Area 1228992
Q 530.90>169.15 (-) 4.69e5

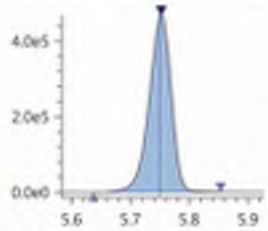


Manual Integration - Before

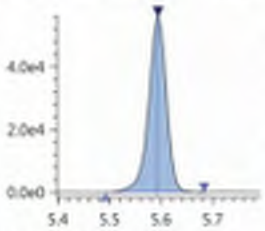
Insight Report

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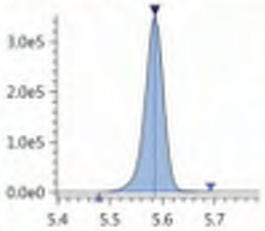
N-EtFOSA-d9_IS
Conc 5.0000
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ISTD 530.90>169.15 (-) 4.69e5



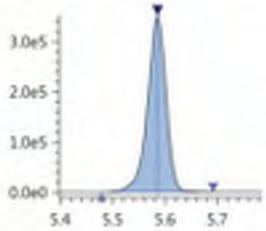
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Conc 0.5202
RT 5.594 Area 135155
Q 616.00>59.00 (-) 5.65e4



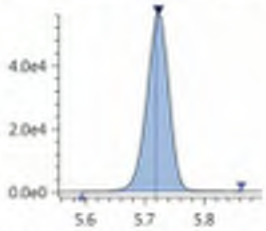
N-MeFOSE-d7
Conc 5.1051
RT 5.586 Area 870340
Q 622.70>59.10 (-) 3.53e5



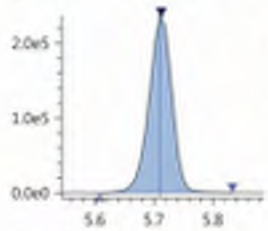
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.586 Area 870340
ISTD 622.70>59.10 (-) 3.53e5



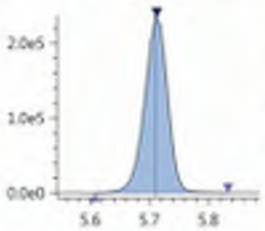
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RT 5.723 Area 148487
Q 630.00>58.90 (-) 5.61e4



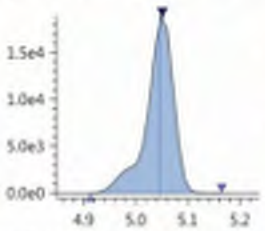
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Conc 5.2148
RT 5.712 Area 643334
Q 638.70>59.10 (-) 2.37e5



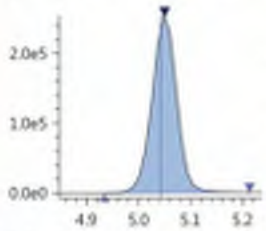
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ISTD 638.70>59.10 (-) 2.37e5



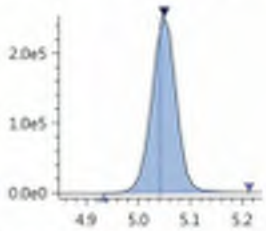
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Conc 0.4816
RT 5.051 Area 66394
Q 570.20>419.00 (-) 1.89e4



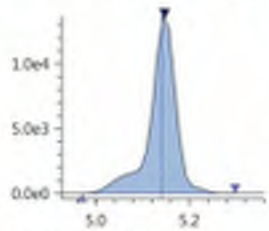
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Conc 5.2719
RT 5.050 Area 835859
Q 572.80>419.05 (-) 2.54e5



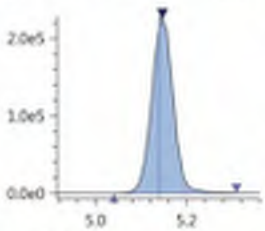
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.050 Area 835859
ISTD 572.80>419.05 (-) 2.54e5



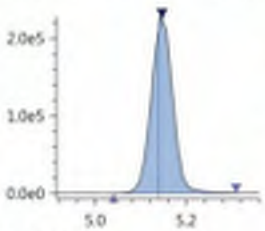
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Conc 0.5589
RT 5.147 Area 51959
Q 584.20>418.95 (-) 1.37e4



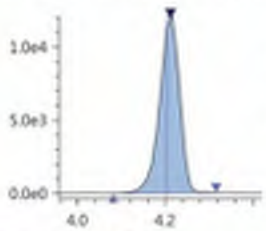
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Conc 5.7547
RT 5.147 Area 742402
Q 588.80>419.00 (-) 2.28e5



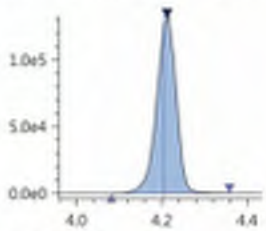
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.147 Area 742402
ISTD 588.80>419.00 (-) 2.28e5



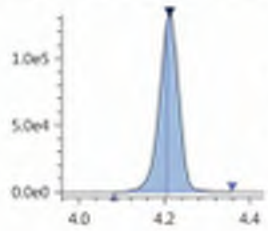
4_2-FTS_1
Conc 0.4802
RT 4.212 Area 38547
Q 327.00>307.05 (-) 1.21e4



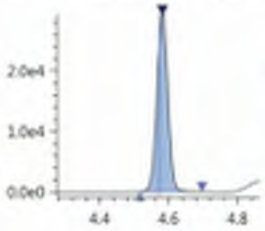
4_2-FTS-13C
Conc 3.8953
RT 4.212 Area 422870
Q 328.80>309.05 (-) 1.33e5



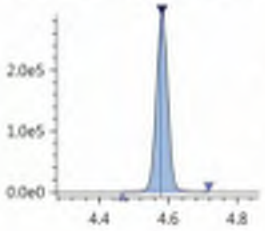
4_2-FTS-13C_IS
Conc 5.0000
RT 4.212 Area 422870
ISTD 328.80>309.05 (-) 1.33e5



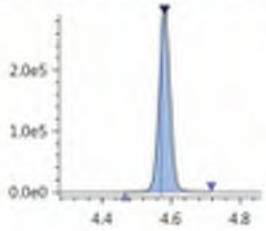
6_2-FTS_1
Conc 0.5291
RT 4.581 Area 65399
Q 427.00>407.00 (-) 2.93e4



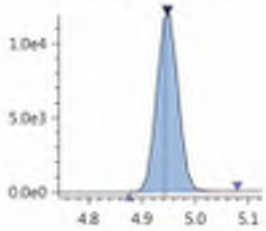
6_2-FTS-13C
Conc 5.7488
RT 4.581 Area 665189
Q 428.90>409.00 (-) 2.91e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.581 Area 665189
ISTD 428.90>409.00 (-) 2.91e5



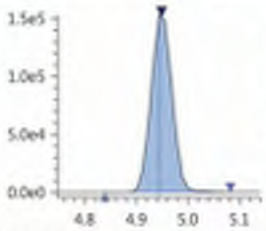
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Conc 0.5154
RT 4.948 Area 33860
Q 527.10>506.90 (-) 1.19e4



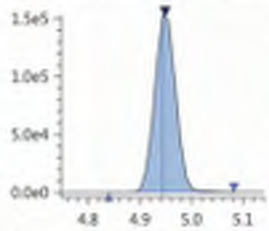
Insight Report

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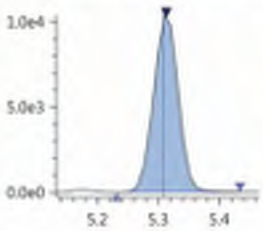
8_2-FTS-13C
Conc 6.1604
RT 4.949 Area 439789
Q 528.80>509.00 (-) 1.51e5



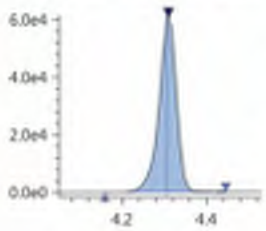
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RT 4.949 Area 439789
ISTD 528.80>509.00 (-) 1.53e5



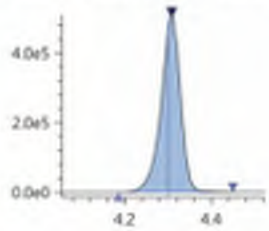
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Conc 0.4140
RT 5.313 Area 29194
Q 627.00>606.95 (-) 1.04e4



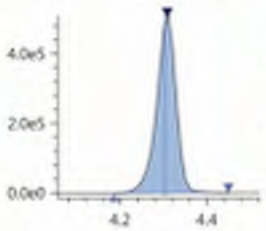
HPFO_DA
Conc 0.8030
RT 4.310 Area 176624
Q 329.00>169.00 (-) 6.16e4



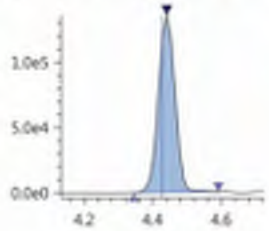
HFPO_DA-13C
Conc 4.3509
RT 4.308 Area 1587065
Q 332.00>286.80 (-) 5.09e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.308 Area 1587065
ISTD 332.00>286.80 (-) 5.09e5



ADONA
Conc 0.5293
RT 4.440 Area 460821
Q 377.00>251.00 (-) 1.36e5



Manual Integration - Before

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Insight Report

Printed at 9/23/2019 2:41:43 PM

190920_012

Sample ID: 5.0 PPB ICAL
Date acquired: 9/20/2019 4:22:31 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_012.lcd
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.130	6072911	6072911	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.037	1721546	1544510	2	4.1964	ng/mL	4.4368
PFBS-13C	Auto	4.038	1544510	6072911	1	5.2103	ng/mL	5.0000
PFBS-13C_IS	Auto	4.038	1544510	1544510	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.255	552649	1544510	2	4.2413	ng/mL	4.7046
PFHxS_1	M	4.419	1008677	858356	3	4.2060	ng/mL	4.5654
PFHxS-18O	Auto	4.422	858356	6072911	1	5.1881	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.422	858356	858356	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.584	930959	858356	3	4.3008	ng/mL	4.7672
PFOS_1	M	4.757	851955	958246	4	4.2515	ng/mL	4.6461
PFOS-13C	Auto	4.757	958246	6072911	1	5.8100	ng/mL	5.0000
PFOS-13C_IS	Auto	4.757	958246	958246	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.936	647705	958246	4	4.9215	ng/mL	4.8079
PFDS_1	Auto	5.113	820980	958246	4	4.4800	ng/mL	4.8233
PFDOS	Auto	5.444	930054	958246	4	4.4838	ng/mL	4.8478
9Cl-PF3ONS	Auto	4.860	6023658	958246	4	4.2513	ng/mL	4.6662
11Cl-PF3OUdS	Auto	5.209	3755670	958246	4	4.4080	ng/mL	4.7160
PFBA	Auto	3.446	4756265	5023857	5	4.9811	ng/mL	5.0000
PFBA-13C	Auto	3.446	5023857	6072911	1	5.1812	ng/mL	5.0000
PFBA-13C_IS	Auto	3.446	5023857	5023857	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.986	6370701	3289097	6	4.9955	ng/mL	5.0000
PFPeA-13C	Auto	3.985	3289097	6072911	1	5.1787	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.985	3289097	3289097	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.239	6108454	6890224	7	5.1946	ng/mL	5.0000
PFHxA-13C	Auto	4.238	6890224	6072911	1	4.7027	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.238	6890224	6890224	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.420	5975061	6079025	8	4.9303	ng/mL	5.0000
PFHpA-13C	Auto	4.420	6079025	6072911	1	4.9072	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.420	6079025	6079025	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.591	8899212	7861177	9	4.8288	ng/mL	5.0000
PFOA-13C	Auto	4.590	7861177	6072911	1	5.3792	ng/mL	5.0000
PFOA-13C_IS	Auto	4.590	7861177	7861177	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.768	5150480	5944597	10	4.9987	ng/mL	5.0000
PFNA-13C	Auto	4.768	5944597	6072911	1	5.3534	ng/mL	5.0000
PFNA-13C_IS	Auto	4.768	5944597	5944597	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.950	5749574	5510658	11	4.8430	ng/mL	5.0000
PFDA-13C	Auto	4.950	5510658	6072911	1	5.6154	ng/mL	5.0000
PFDA-13C_IS	Auto	4.950	5510658	5510658	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.129	3774356	4189830	12	5.1828	ng/mL	5.0000
PFUnA-13C	Auto	5.129	4189830	6072911	1	4.8217	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.129	4189830	4189830	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.304	5044141	7770181	13	5.0034	ng/mL	5.0000
PFDoA-13C	Auto	5.304	7770181	6072911	1	5.4451	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.304	7770181	7770181	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.468	7053759	9235620	14	5.0858	ng/mL	5.0000
PFTeDA	Auto	5.619	4520903	9235620	14	5.0972	ng/mL	5.0000
PFTeDA-13C	Auto	5.619	9235620	6072911	1	5.0189	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.619	9235620	9235620	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.954	6655535	8849299	15	5.0408	ng/mL	5.0000
13C-PFHxDA	Auto	5.954	8849299	6072911	1	5.2161	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.954	8849299	8849299	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.470	5079624	8849299	15	4.9140	ng/mL	5.0000
FOSA	Auto	5.231	3240692	3135840	16	4.5591	ng/mL	5.0000
FOSA-13C	Auto	5.231	3135840	6072911	1	5.6803	ng/mL	5.0000
FOSA-13C_IS	Auto	5.231	3135840	3135840	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.616	1189230	842185	17	4.8476	ng/mL	5.0000
N-MeFOSA-d3	Auto	5.614	842185	6072911	1	5.1704	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.614	842185	842185	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.753	214171	1183136	18	5.0418	ng/mL	5.0000
N-EtFOSA-d9	Auto	5.747	1183136	6072911	1	5.0411	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.747	1183136	1183136	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.590	1249504	898250	19	4.6574	ng/mL	5.0000
N-MeFOSE-d7	Auto	5.582	898250	6072911	1	5.2507	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.582	898250	898250	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.718	1258665	590429	20	4.9780	ng/mL	5.0000
N-EtFOSE-d9	Auto	5.707	590429	6072911	1	4.7695	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.707	590429	590429	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.047	599171	799680	21	4.5918	ng/mL	5.0000

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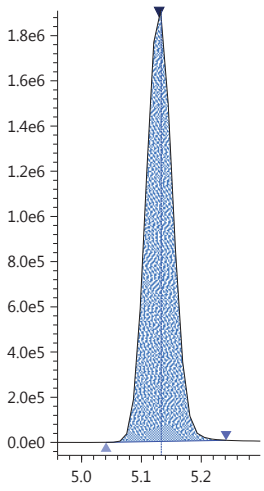
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.044	799680	6072911	1	5.0264	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.044	799680	799680	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.147	456126	615112	22	5.9995	ng/mL	5.0000
N-EtFOSAA-d5	Auto	5.142	615112	6072911	1	4.7516	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.142	615112	615112	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.209	587988	650885	23	4.8044	ng/mL	4.6861
4_2-FTS-13C	Auto	4.209	650885	6072911	1	5.9751	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.209	650885	650885	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.577	501036	590095	24	4.6566	ng/mL	4.7558
6_2-FTS-13C	Auto	4.578	590095	6072911	1	5.0822	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.578	590095	590095	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.945	266751	357682	25	5.0237	ng/mL	4.8002
8_2-FTS-13C	Auto	4.946	357682	6072911	1	4.9930	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.946	357682	357682	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.306	275505	357682	25	4.7781	ng/mL	4.8310
HPFO_DA	Auto	4.304	1384457	2053322	26	4.5223	ng/mL	5.0000
HFPO_DA-13C	Auto	4.305	2053322	6072911	1	5.6097	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.305	2053322	2053322	26	5.0000	ng/mL	5.0000
ADONA	M	4.433	5160066	2053322	26	4.5614	ng/mL	4.7253

13C7-PFUnDA_IS

Conc 5.0000
RT 5.130 Area 6072911

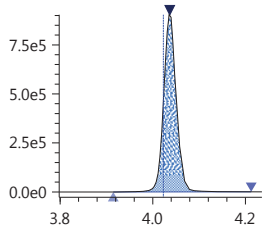
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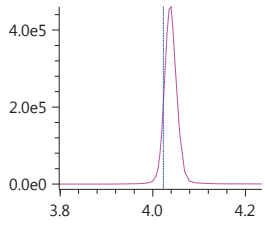
PFBS_1

Conc 4.1964
RT 4.037 Area 1721546
R#1 50.42 (0.00)

Q 299.00>80.00 (-) 9.04e5



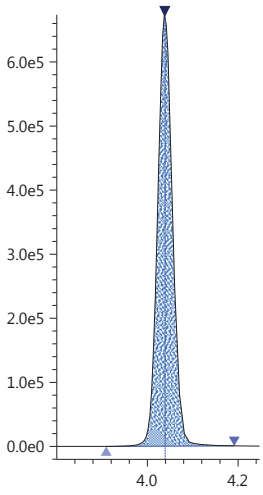
R1 298.80>99.00 (-) 4.60e5



PFBS-13C

Conc 5.2103
RT 4.038 Area 1544510

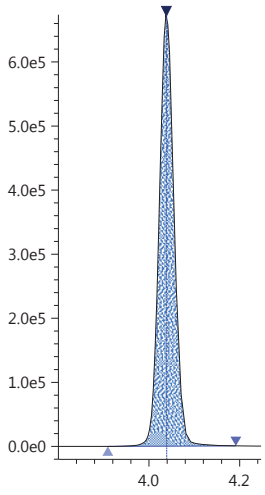
Q 301.80>80.00 (-) 6.74e5



PFBS-13C_IS

Conc 5.0000
RT 4.038 Area 1544510

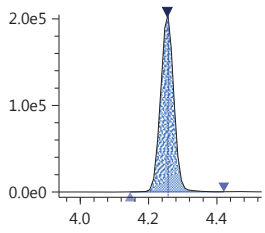
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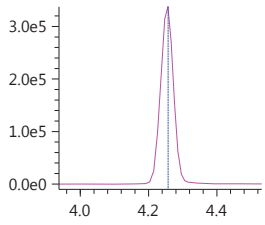
PFPeS

Conc 4.2413
RT 4.255 Area 552649
R#1 166.38 (0.00)

Q 349.00>99.00 (-) 2.05e5



R1 349.00>79.95 (-) 3.37e5



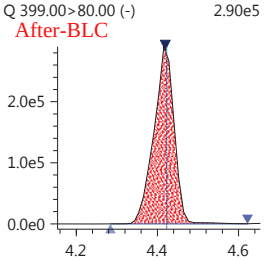
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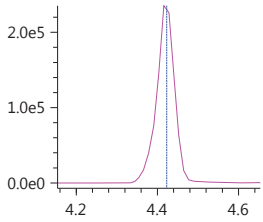
PFHxS_1

Conc 4.2060
RT 4.419 Area 1008677
R#1 79.65 (0.00)

Q 399.00>80.00 (-) 2.90e5



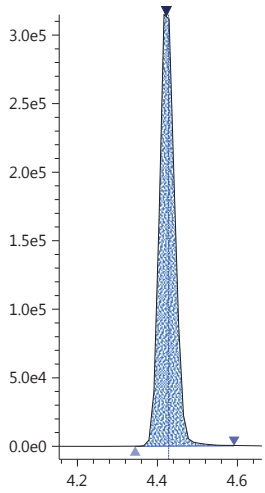
R1 399.00>99.00 (-) 2.35e5



PFHxS-18O

Conc 5.1881
RT 4.422 Area 858356

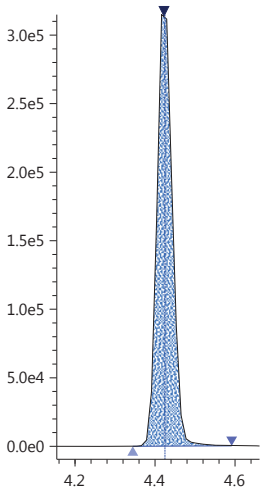
Q 402.70>84.05 (-) 3.15e5



PFHxS-18O_IS

Conc 5.0000
RT 4.422 Area 858356

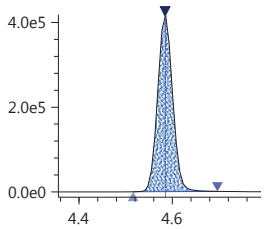
ISTD 402.70>84.05 (-) 3.15e5



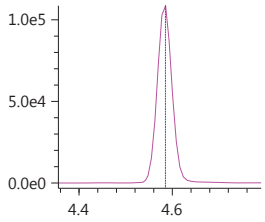
PFHpS_1

Conc 4.3008
RT 4.584 Area 930959
R#1 25.91 (0.00)

Q 449.00>80.15 (-) 4.19e5



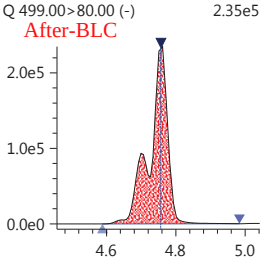
R1 449.00>99.20 (-) 1.09e5



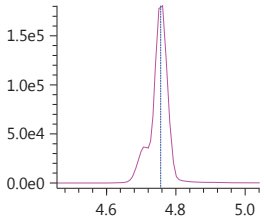
PFOS_1

Conc 4.2515
RT 4.757 Area 851955
R#1 77.76 (0.00)

Q 499.00>80.00 (-) 2.35e5



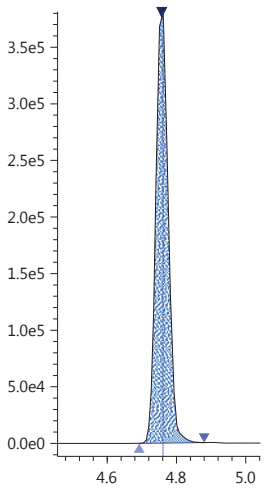
R1 499.00>99.00 (-) 1.81e5



PFOS-13C

Conc 5.8100
RT 4.757 Area 958246

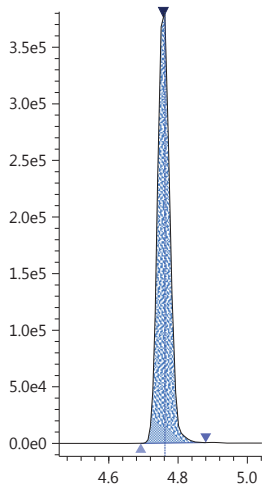
Q 502.80>80.05 (-) 3.81e5



PFOS-13C_IS

Conc 5.0000
RT 4.757 Area 958246

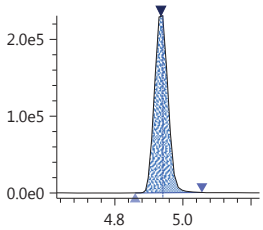
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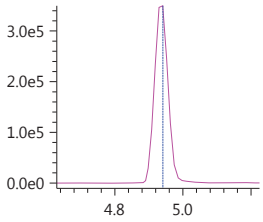
PFNS

Conc 4.9215
RT 4.936 Area 647705
R#1 151.33 (0.00)

Q 549.00>99.00 (-) 2.31e5



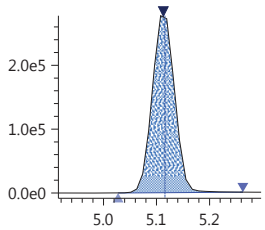
R1 549.00>79.95 (-) 3.50e5



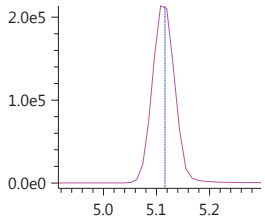
PFDS_1

Conc 4.4800
RT 5.113 Area 820980
R#1 77.17 (0.00)

Q 599.00>79.90 (-) 2.78e5



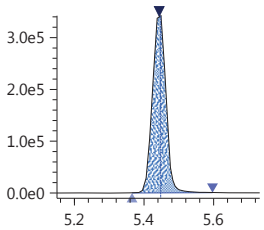
R1 599.00>99.10 (-) 2.14e5



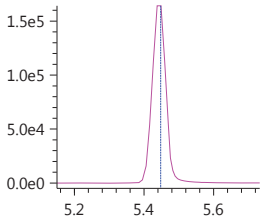
PFDOS

Conc 4.4838
RT 5.444 Area 930054
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Q 699.00>79.95 (-) 3.42e5



R1 699.00>99.05 (-) 1.64e5



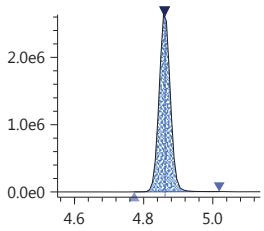
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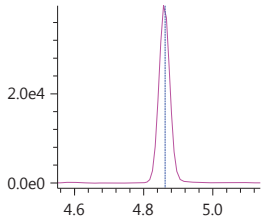
9Cl-PF3ONS

Conc 4.2513
RT 4.860 Area 6023658
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Q 531.00>351.00 (-) 2.64e6



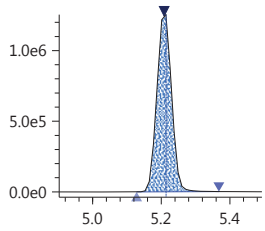
R1 531.00>98.90 (-) 3.98e4



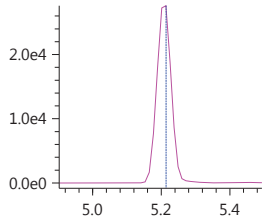
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Conc 4.4080
RT 5.209 Area 3755670
R#1 2.24 (0.00)

Q 631.00>451.05 (-) 1.25e6



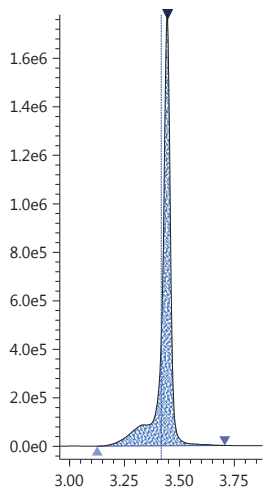
R1 631.00>98.90 (-) 2.76e4



PFBA

Conc 4.9811
RT 3.446 Area 4756265

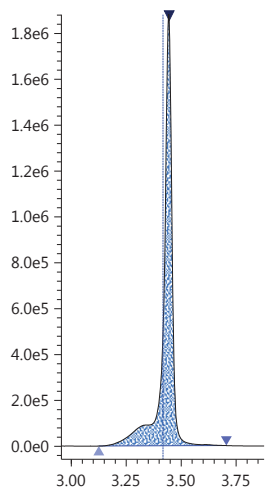
Q 213.00>169.10 (-) 1.78e6



PFBA-13C

Conc 5.1812
RT 3.446 Area 5023857

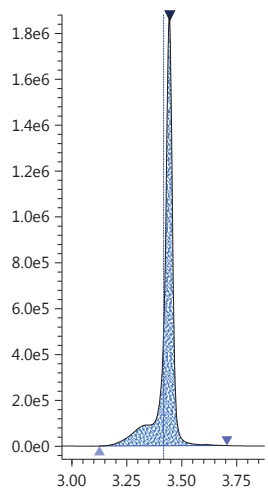
Q 216.90>172.15 (-) 1.88e6



PFBA-13C_IS

Conc 5.0000
RT 3.446 Area 5023857

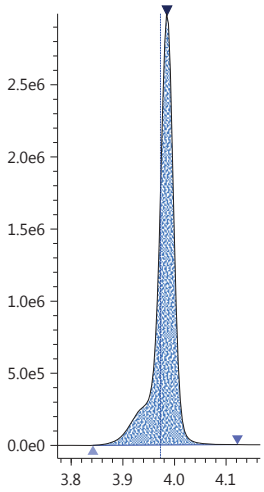
ISTD 216.90>172.15 (-) 1.88e6



PFPeA

Conc 4.9955
RT 3.986 Area 6370701

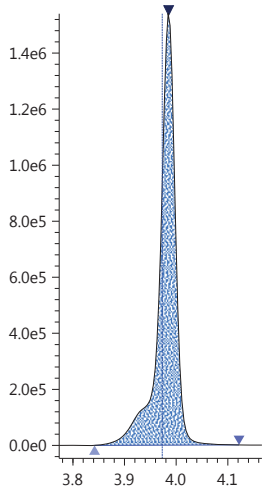
Q 263.05>219.10 (-) 2.99e6



PFPeA-13C

Conc 5.1787
RT 3.985 Area 3289097

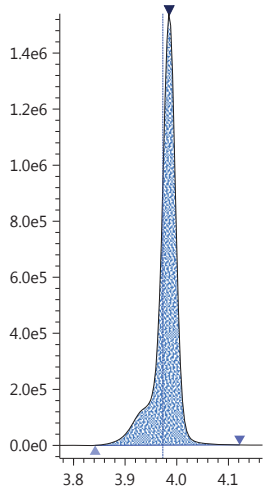
Q 267.90>223.00 (-) 1.54e6



PFPeA-13C_IS

Conc 5.0000
RT 3.985 Area 3289097

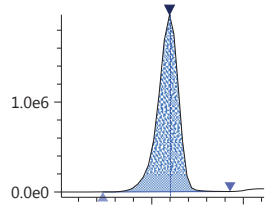
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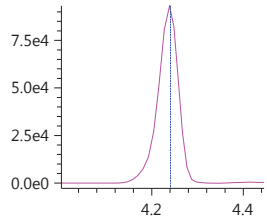
PFHxA

Conc 5.1946
RT 4.239 Area 6108454
R#1 4.74 (0.00)

Q 313.00>269.00 (-) 1.97e6



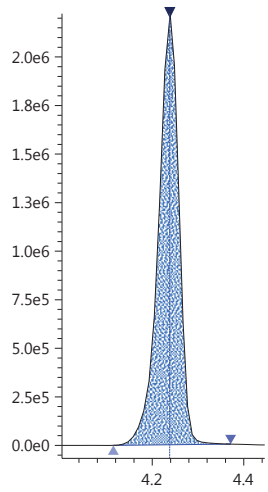
R1 313.00>119.10 (-) 9.32e4



PFHxA-13C

Conc 4.7027
RT 4.238 Area 6890224

Q 314.90>270.10 (-) 2.22e6



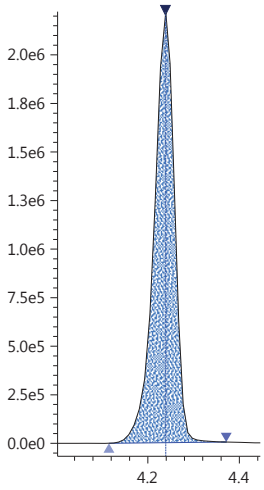
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PFHxA-13C_IS

Conc 5.0000
RT 4.238 Area 6890224

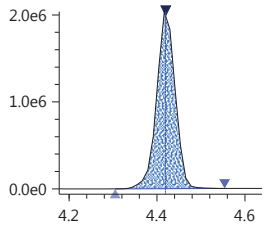
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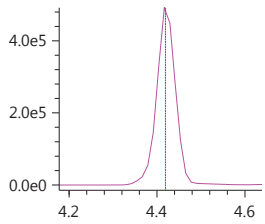
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Conc 4.9303
RT 4.420 Area 5975061
R#1 24.11 (0.00)

Q 362.90>319.00 (-) 2.04e6



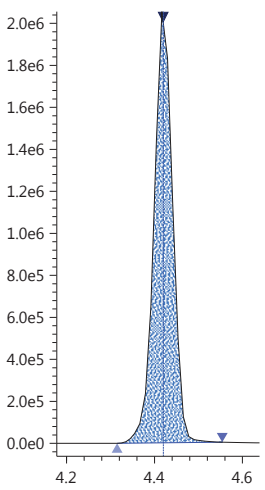
R1 362.90>169.00 (-) 4.92e5



PFHpA-13C

Conc 4.9072
RT 4.420 Area 6079025

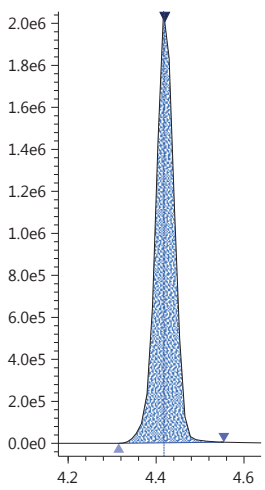
Q 366.90>322.10 (-) 2.06e6



PFHpA-13C_IS

Conc 5.0000
RT 4.420 Area 6079025

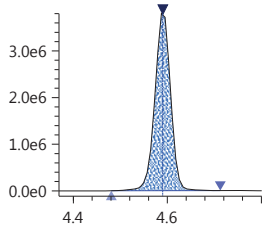
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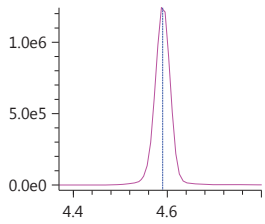
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Conc 4.8288
RT 4.591 Area 8899212
R#1 32.68 (0.00)

Q 413.00>369.00 (-) 3.80e6



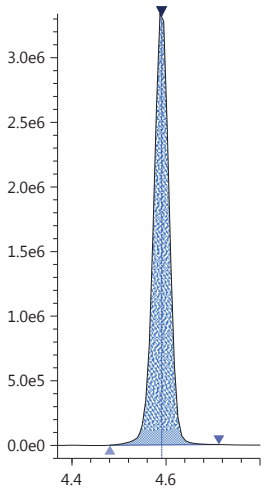
R1 413.00>169.10 (-) 1.24e6



PFOA-13C

Conc 5.3792
RT 4.590 Area 7861177

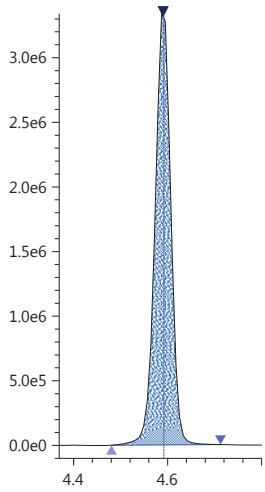
Q 416.80>372.05 (-) 3.34e6



PFOA-13C_IS

Conc 5.0000
RT 4.590 Area 7861177

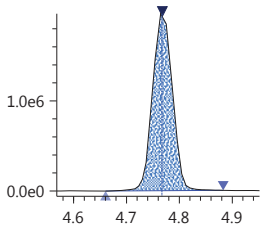
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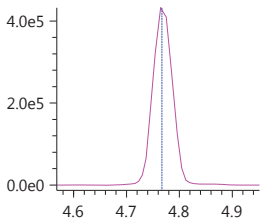
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Conc 4.9987
RT 4.768 Area 5150480
R#1 21.97 (0.00)

Q 463.00>418.90 (-) 1.97e6



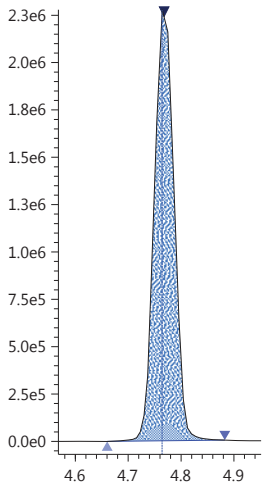
R1 463.00>219.00 (-) 4.32e5



PFNA-13C

Conc 5.3534
RT 4.768 Area 5944597

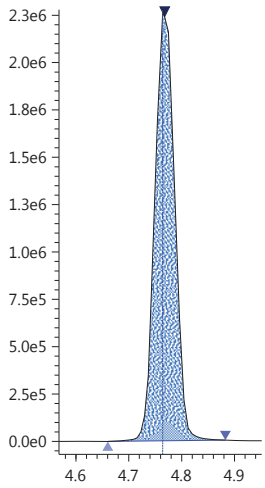
Q 467.80>423.00 (-) 2.28e6



PFNA-13C_IS

Conc 5.0000
RT 4.768 Area 5944597

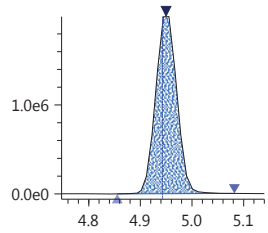
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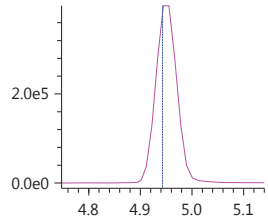
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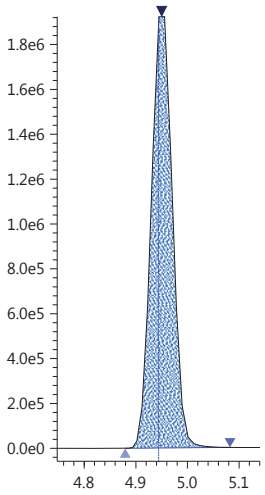
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RT 4.950 Area 5749574
R#1 19.95 (0.00)
Q 513.00>468.80 (-) 1.99e6



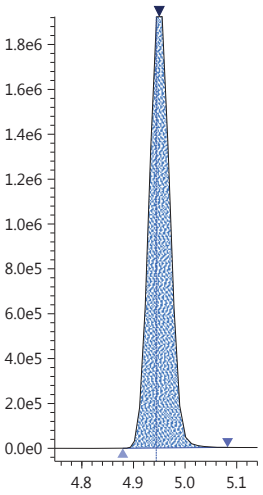
R1 513.00>219.10 (-) 3.98e5



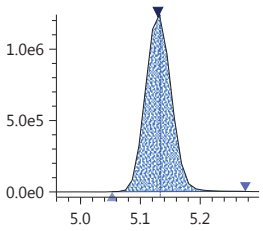
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Conc 5.6154
RT 4.950 Area 5510658
Q 514.80>469.95 (-) 1.92e6



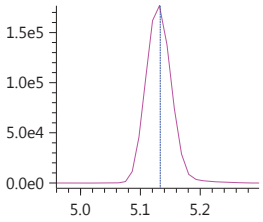
PFDA-13C_IS
Conc 5.0000
RT 4.950 Area 5510658
ISTD 514.80>469.95 (-) 1.92e6



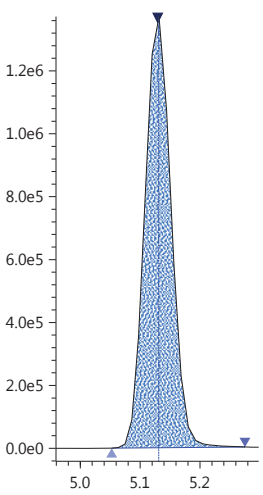
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RT 5.129 Area 3774356
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Q 563.00>518.90 (-) 1.24e6



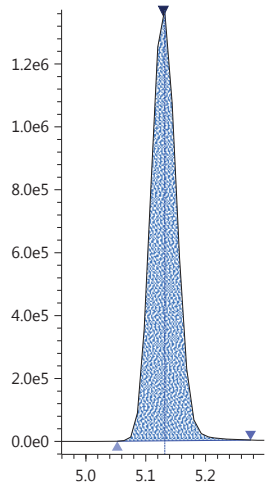
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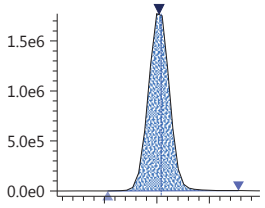
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Conc 4.8217
RT 5.129 Area 4189830
Q 564.80>519.95 (-) 1.37e6



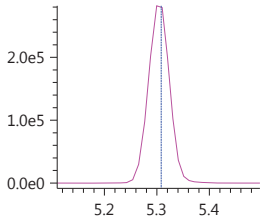
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RT 5.129 Area 4189830
ISTD 564.80>519.95 (-) 1.37e6



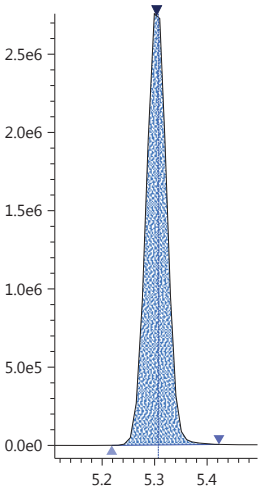
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RT 5.304 Area 5044141
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Q 613.05>569.00 (-) 1.77e6



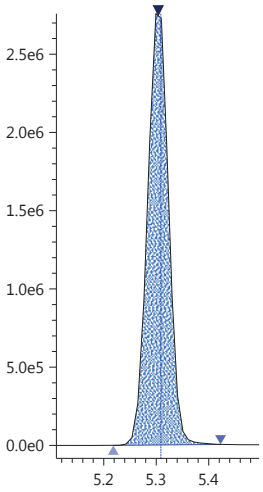
R1 613.05>169.00 (-) 2.82e5



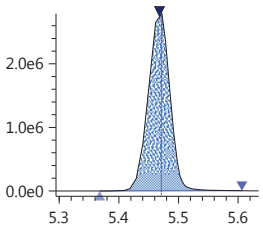
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Conc 5.4451
RT 5.304 Area 7770181
Q 614.80>569.95 (-) 2.76e6



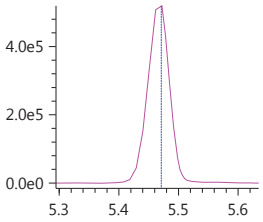
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Conc 5.0000
RT 5.304 Area 7770181
ISTD 614.80>569.95 (-) 2.76e6



PFTrDA
Conc 5.0858
RT 5.468 Area 7053759
R#1 18.75 (0.00)
Q 663.00>618.90 (-) 2.79e6



R1 662.90>169.00 (-) 5.19e5



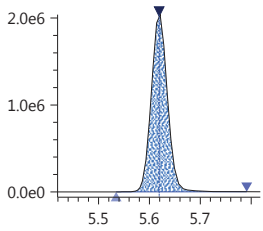
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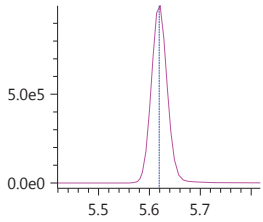
PFTeDA

Conc 5.0972
RT 5.619 Area 4520903
R#1 48.98 (0.00)

Q 713.40>669.00 (-) 2.04e6



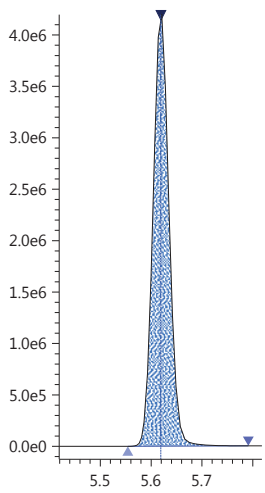
R1 713.40>169.10 (-) 9.99e5



PFTeDA-13C

Conc 5.0189
RT 5.619 Area 9235620

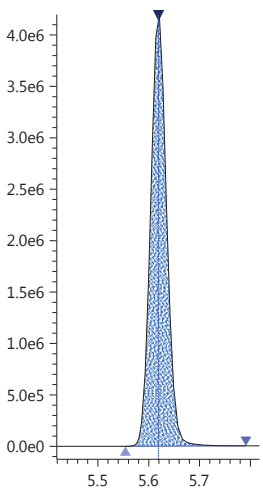
Q 714.70>669.90 (-) 4.20e6



PFTeDA-13C_IS

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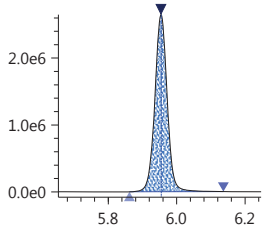
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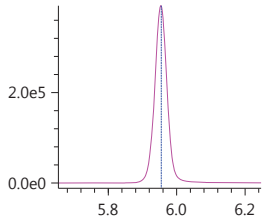
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Conc 5.0408
RT 5.954 Area 6655535
R#1 14.65 (0.00)

Q 813.00>769.05 (-) 2.65e6



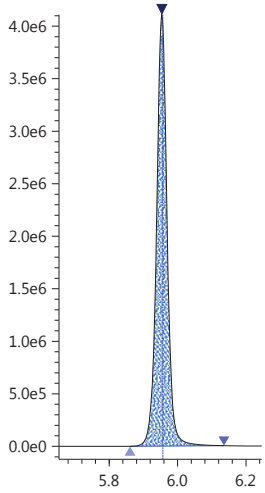
R1 813.00>218.95 (-) 3.92e5



13C-PFHxDA

Conc 5.2161
RT 5.954 Area 8849299

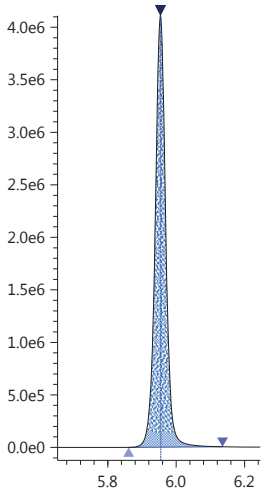
Q 815.00>770.05 (-) 4.11e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.954 Area 8849299

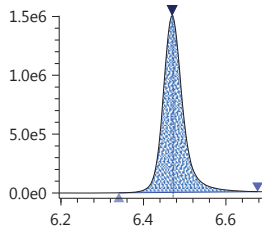
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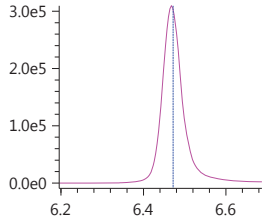
PFODA

Conc 4.9140
RT 6.470 Area 5079624
R#1 20.41 (0.00)

Q 913.00>868.85 (-) 1.51e6



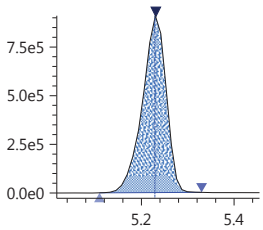
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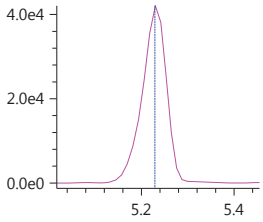
FOSA

Conc 4.5591
RT 5.231 Area 3240692
R#1 4.61 (0.00)

Q 498.20>78.00 (-) 9.11e5



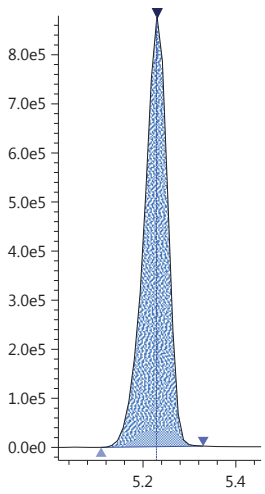
R1 498.20>64.10 (-) 4.21e4



FOSA-13C

Conc 5.6803
RT 5.231 Area 3135840

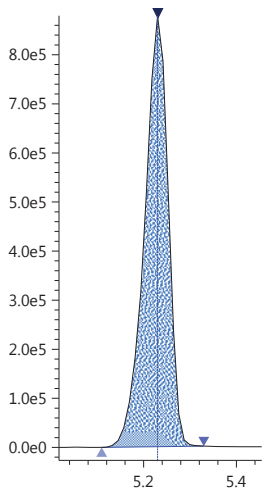
Q 506.00>78.05 (-) 8.80e5



FOSA-13C_IS

Conc 5.0000
RT 5.231 Area 3135840

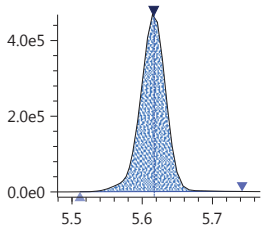
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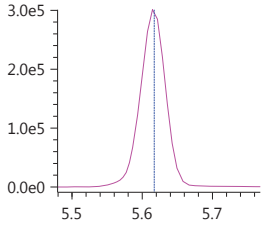
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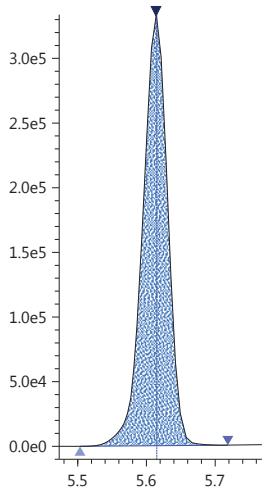
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RT 5.616 Area 1189230
R#1 64.28 (0.00)
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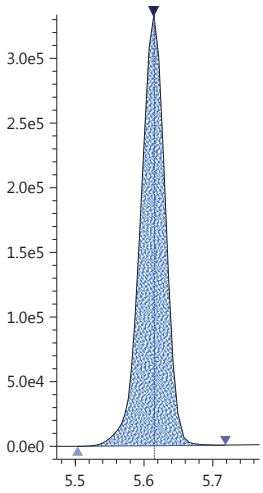
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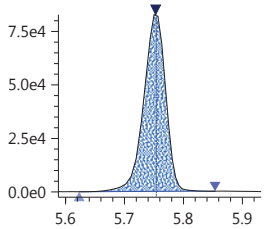
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Conc 5.1704
RT 5.614 Area 842185
Q 514.90>168.90 (-) 3.34e5



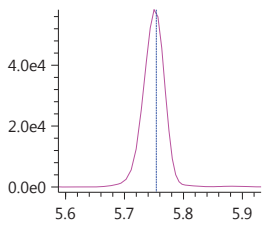
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Conc 5.0000
RT 5.614 Area 842185
ISTD 514.90>168.90 (-) 3.34e5



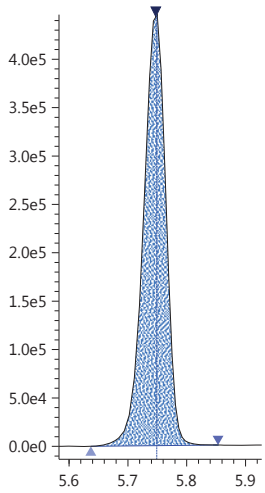
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Conc 5.0418
RT 5.753 Area 214171
R#1 70.58 (0.00)
Q 526.90>169.10 (-) 8.29e4



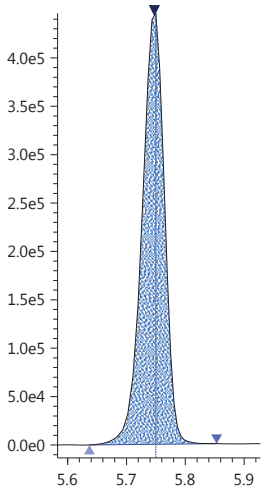
R1 526.90>219.00 (-) 5.82e4



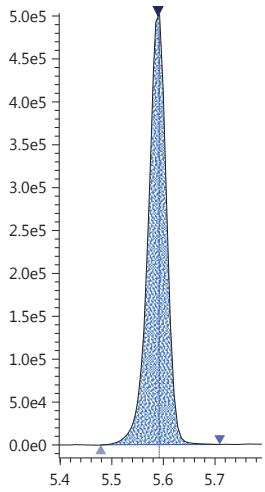
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Conc 5.0411
RT 5.747 Area 1183136
Q 530.90>169.15 (-) 4.46e5



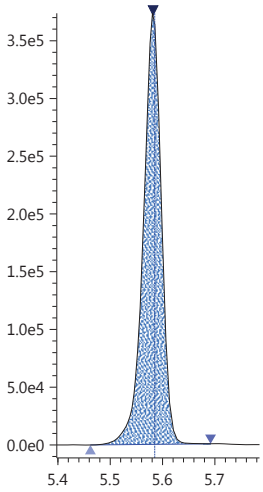
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RT 5.747 Area 1183136
ISTD 530.90>169.15 (-) 4.46e5



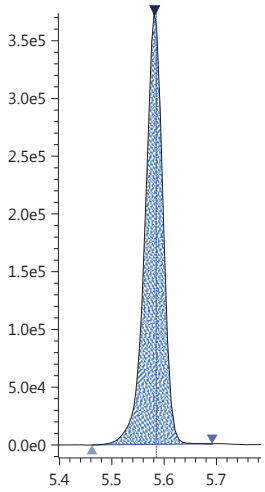
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Q 616.00>59.00 (-) 5.03e5



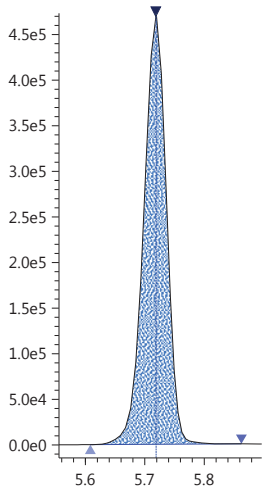
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Conc 5.2507
RT 5.582 Area 898250
Q 622.70>59.10 (-) 3.74e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.582 Area 898250
ISTD 622.70>59.10 (-) 3.74e5



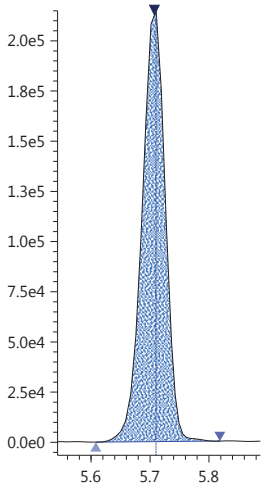
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RT 5.718 Area 1258665
Q 630.00>58.90 (-) 4.73e5



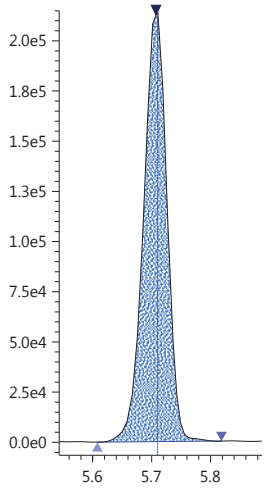
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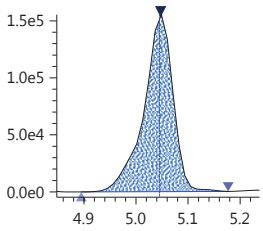
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Q 638.70>59.10 (-) 2.15e5



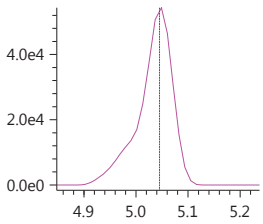
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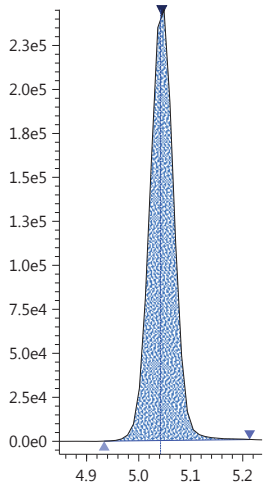
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R#1 35.08 (0.00)
Q 570.20>419.00 (-) 1.55e5



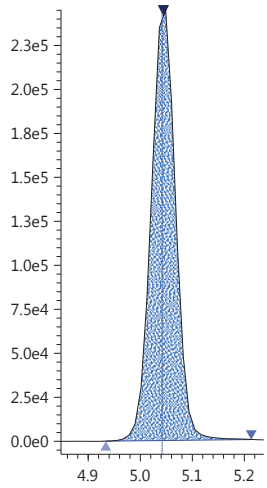
R1 570.20>512.00 (-) 5.43e4



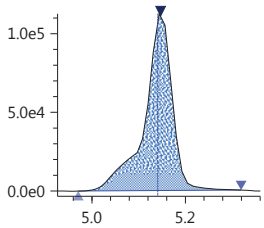
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Conc 5.0264
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Q 572.80>419.05 (-) 2.45e5



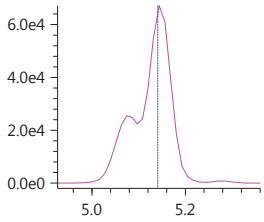
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.044 Area 799680
ISTD 572.80>419.05 (-) 2.45e5



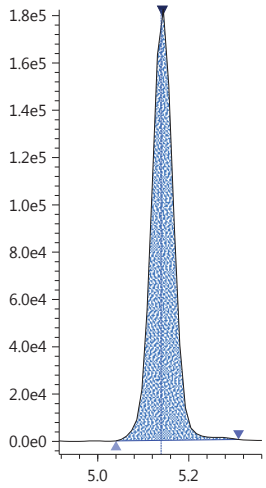
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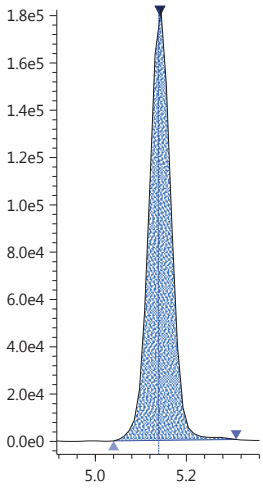
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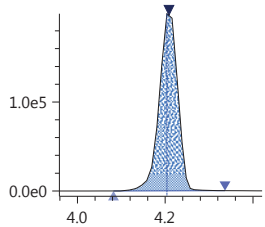
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RT 5.142 Area 615112
Q 588.80>419.00 (-) 1.83e5



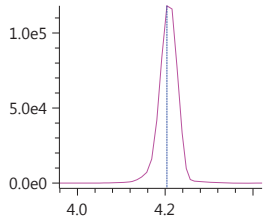
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RT 5.142 Area 615112
ISTD 588.80>419.00 (-) 1.83e5



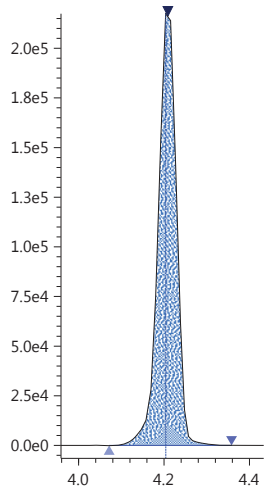
4_2-FTS_1
Conc 4.8044
RT 4.209 Area 587988
R#1 59.32 (0.00)
Q 327.00>307.05 (-) 1.99e5



R1 327.00>81.10 (-) 1.18e5



4_2-FTS-13C
Conc 5.9751
RT 4.209 Area 650885
Q 328.80>309.05 (-) 2.17e5

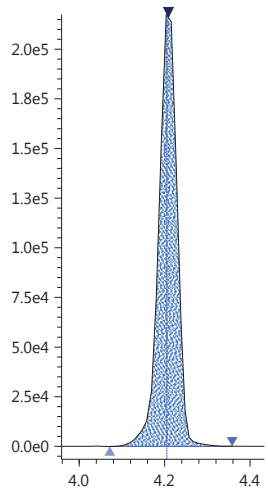


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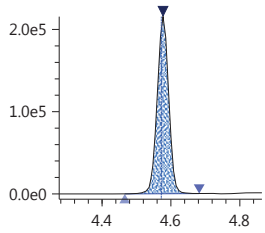
4_2-FTS-13C_IS
Conc 5.0000
RT 4.209 Area 650885

ISTD 328.80>309.05 (-) 2.17e5

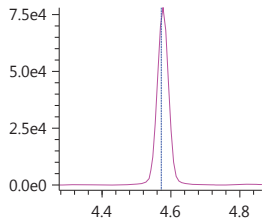


6_2-FTS_1
Conc 4.6566
RT 4.577 Area 501036
R#1 36.20 (0.00)

Q 427.00>407.00 (-) 2.16e5

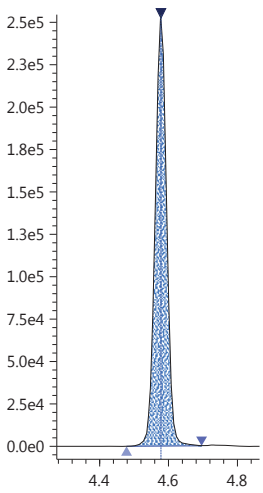


R1 427.00>80.90 (-) 7.80e4



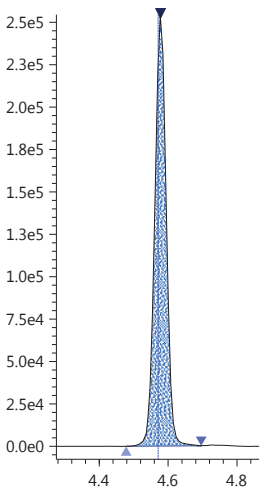
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Conc 5.0822
RT 4.578 Area 590095

Q 428.90>409.00 (-) 2.55e5



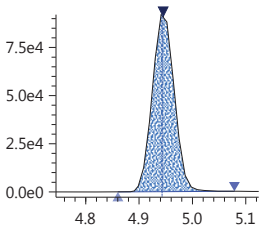
6_2-FTS-13C_IS
Conc 5.0000
RT 4.578 Area 590095

ISTD 428.90>409.00 (-) 2.55e5

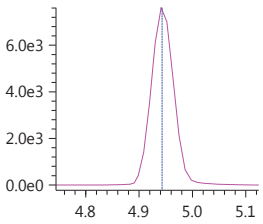


8_2-FTS_1
Conc 5.0237
RT 4.945 Area 266751
R#1 8.28 (0.00)

Q 527.10>506.90 (-) 9.21e4

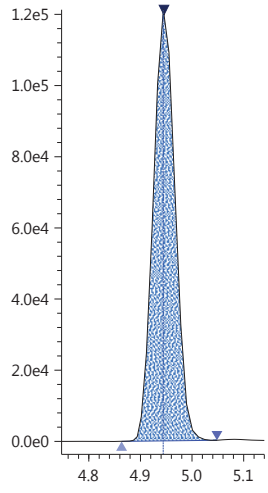


R1 527.20>487.00 (-) 7.61e3



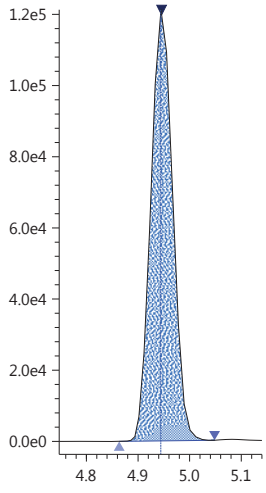
8_2-FTS-13C
Conc 4.9930
RT 4.946 Area 357682

Q 528.80>509.00 (-) 1.21e5



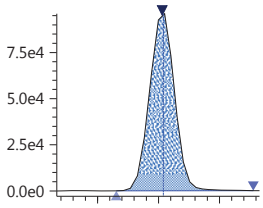
8_2-FTS-13C_IS
Conc 5.0000
RT 4.946 Area 357682

ISTD 528.80>509.00 (-) 1.21e5

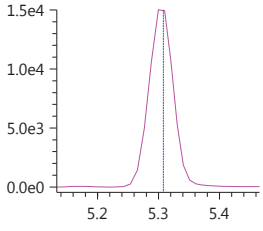


10_2-FtS_1
Conc 4.7781
RT 5.306 Area 275505
R#1 16.22 (0.00)

Q 627.00>606.95 (-) 9.60e4

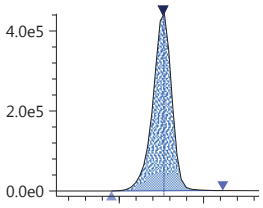


R1 627.00>81.25 (-) 1.50e4

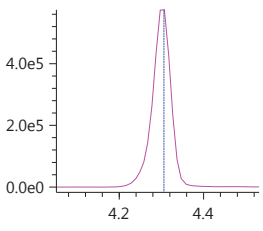


HPFO_DA
Conc 4.5223
RT 4.304 Area 1384457
R#1 134.55 (0.00)

Q 329.00>169.00 (-) 4.43e5

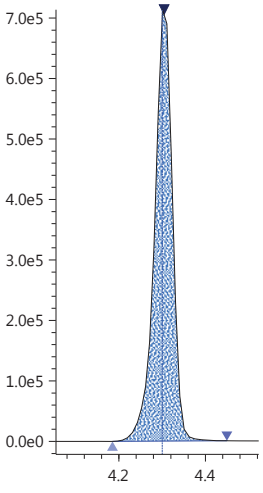


R1 329.00>285.10 (-) 5.75e5



HFPO_DA-13C
Conc 5.6097
RT 4.305 Area 2053322

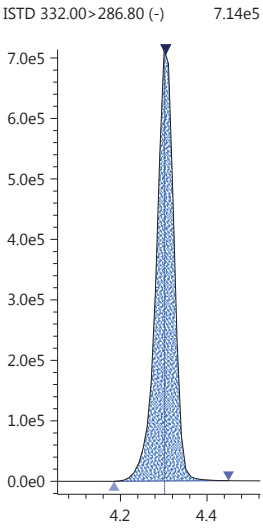
Q 332.00>286.80 (-) 7.14e5



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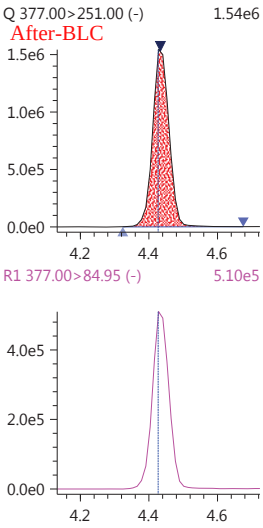
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Conc 5.0000
RT 4.305 Area 2053322



ADONA

Conc 4.5614
RT 4.433 Area 5160066
R#1 32.80 (0.00)



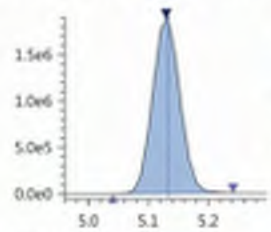
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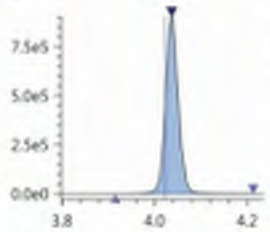
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Date acquired: 9/20/2019 4:22:31 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_012.lcd
Vial: 5 | Inj. Volume: 15.0000uL | Tray: 0

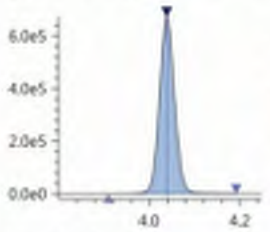
13C7-PFUnDA_IS
Conc 5.0000
RT 5.130 Area 6072911
ISTD 570.00>525.00 (-) 1.91e6



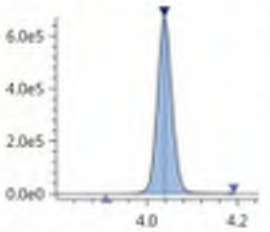
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Conc 4.1831
RT 4.037 Area 1721546
Q 299.00>80.00 (-) 9.04e5



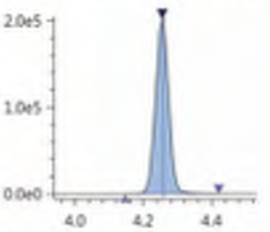
PFBS-13C
Conc 5.2103
RT 4.038 Area 1544510
Q 301.80>80.00 (-) 6.74e5



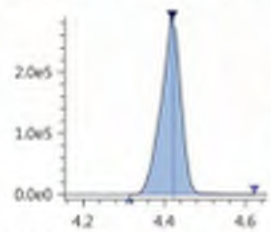
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RT 4.038 Area 1544510
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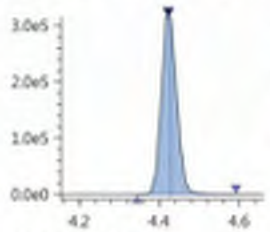
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Q 349.00>99.00 (-) 2.05e5



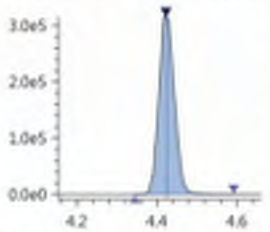
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Q 399.00>80.00 (-) 2.90e5



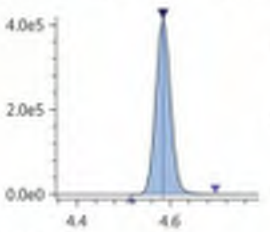
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RT 4.422 Area 858356
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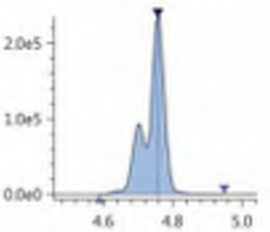
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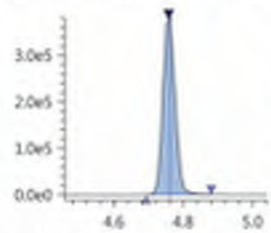
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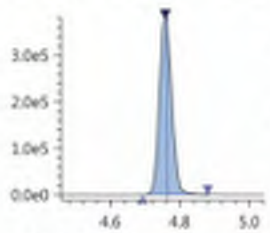
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Conc 4.2120
RT 4.757 Area 850195
Q 499.00>80.00 (-) 2.35e5



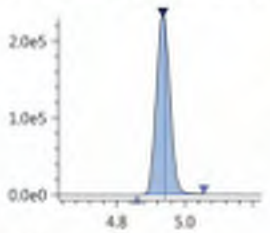
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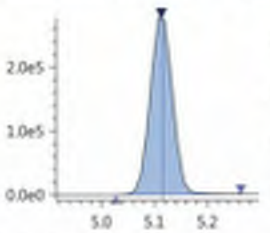
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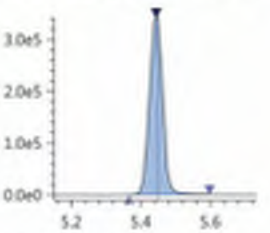
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Q 549.00>99.00 (-) 2.31e5



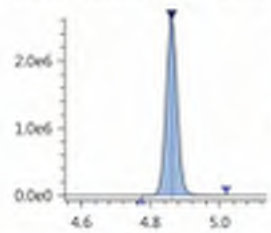
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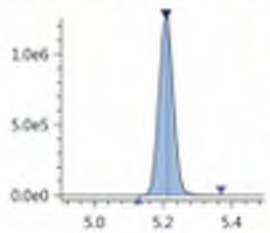
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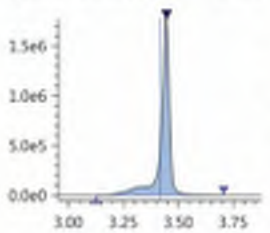
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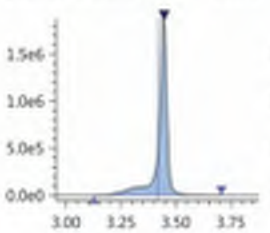
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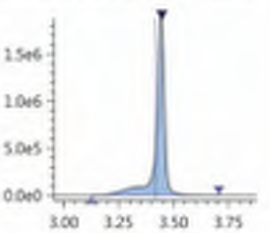
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Q 216.90>172.15 (-) 1.88e6



PFBA-13C_IS
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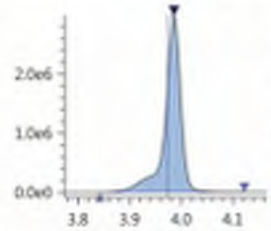
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515 of 820

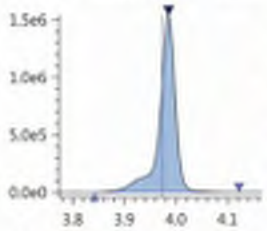
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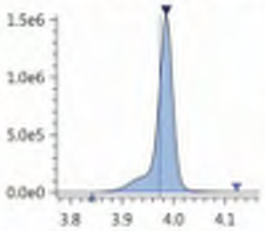
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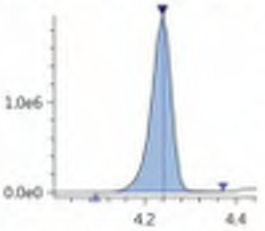
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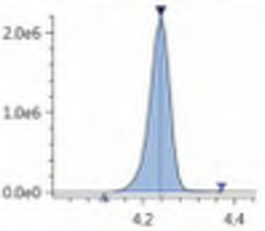
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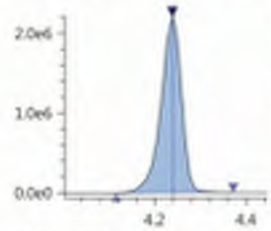
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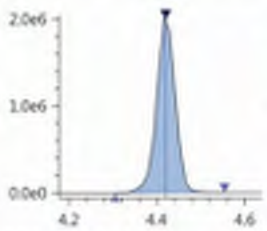
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Q 314.90>270.10 (-) 2.22e6



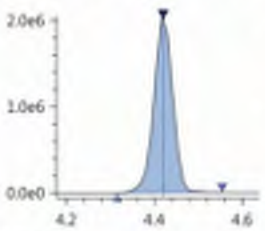
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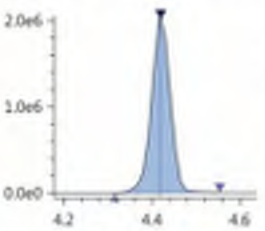
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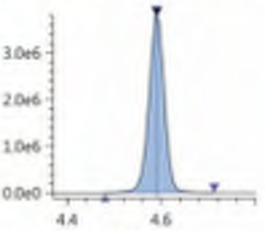
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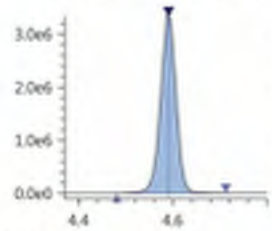
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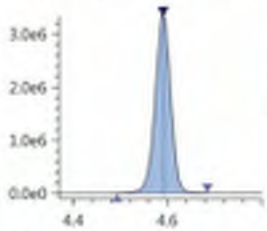
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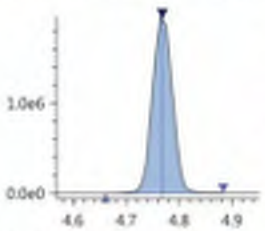
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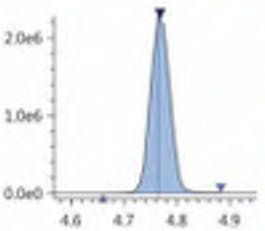
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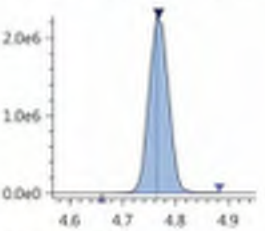
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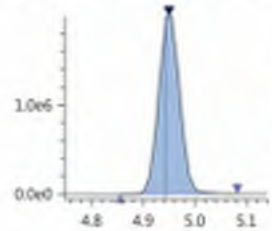
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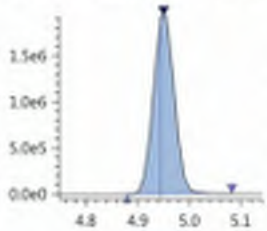
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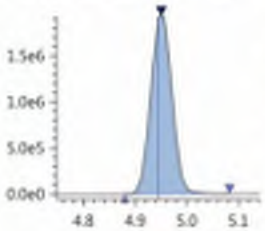
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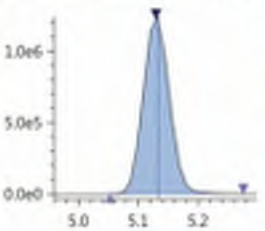
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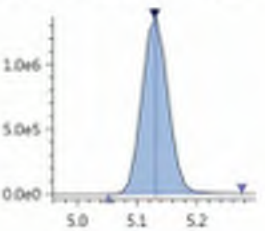
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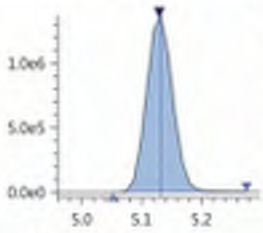
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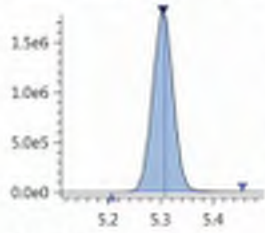
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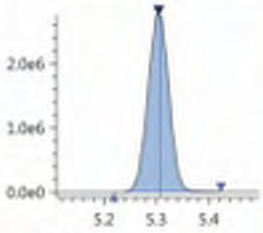
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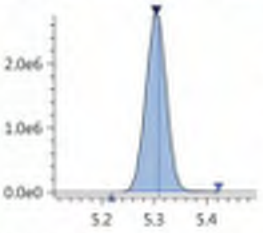
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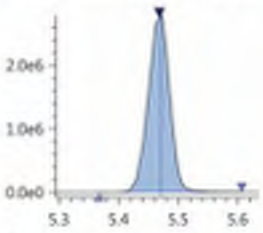
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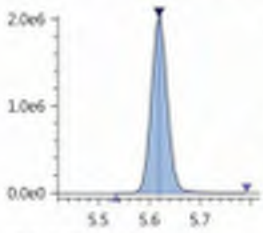
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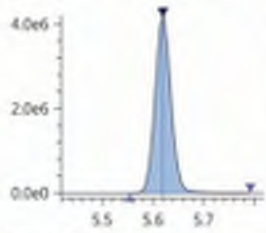
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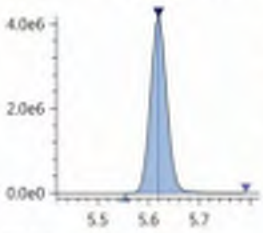
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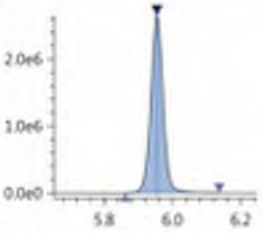
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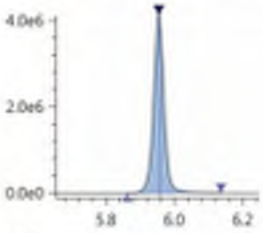
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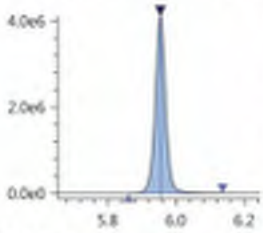
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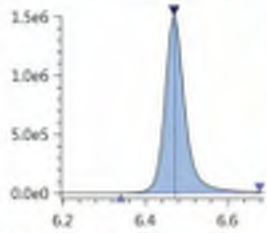
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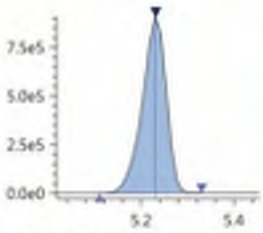
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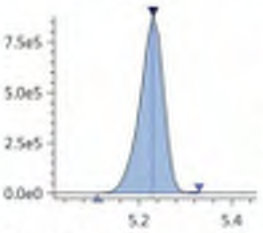
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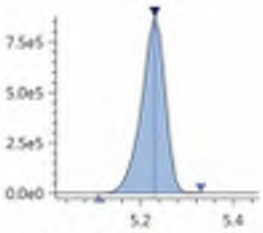
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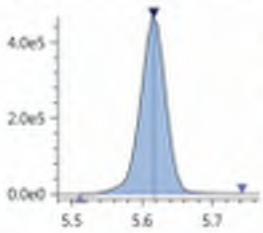
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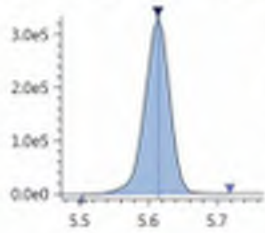
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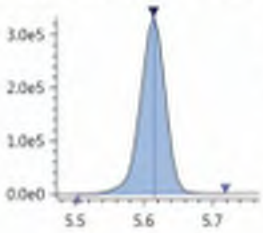
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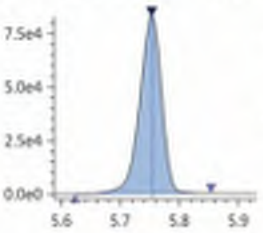
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Q 514.90>168.90 (-) 3.34e5



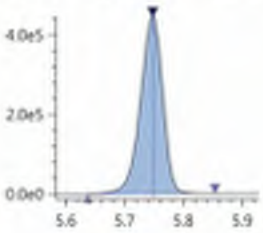
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.614 Area 842185
ISTD 514.90>168.90 (-) 3.34e5



N-EtFOSA
Conc 4.6939
RT 5.753 Area 214171
Q 526.90>169.10 (-) 8.29e4



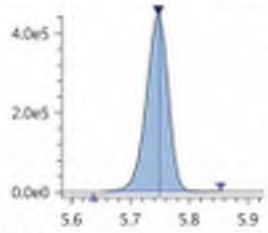
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Conc 5.0411
RT 5.747 Area 1183136
Q 530.90>169.15 (-) 4.46e5



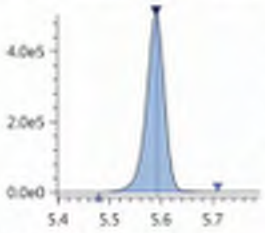
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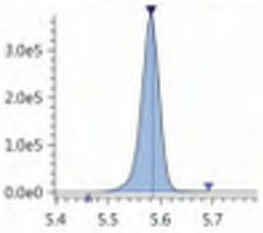
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ISTD 530.90>169.15 (-) 4.46e5



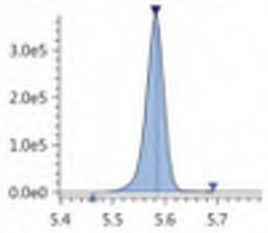
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Q 616.00>59.00 (-) 5.03e5



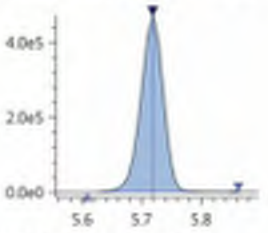
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Conc 5.2507
RT 5.582 Area 898250
Q 622.70>59.10 (-) 3.74e5



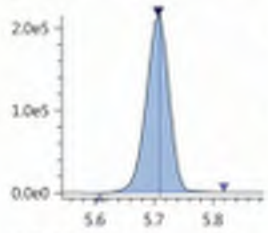
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Conc 5.0000
RT 5.582 Area 898250
ISTD 622.70>59.10 (-) 3.74e5



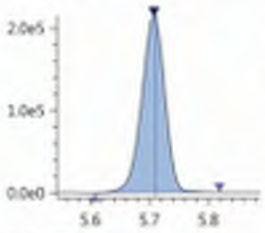
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RT 5.718 Area 1258665
Q 630.00>58.90 (-) 4.73e5



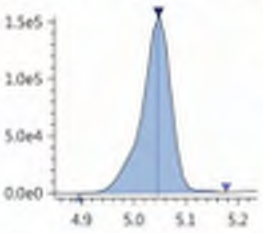
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Conc 4.7695
RT 5.707 Area 590429
Q 638.70>59.10 (-) 2.15e5



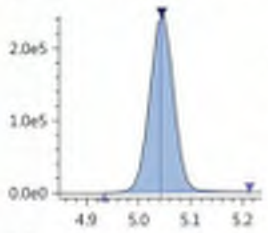
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Conc 5.0000
RT 5.707 Area 590429
ISTD 638.70>59.10 (-) 2.15e5



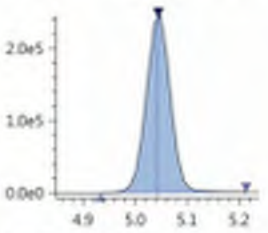
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Conc 4.5430
RT 5.047 Area 599171
Q 570.20>419.00 (-) 1.55e5



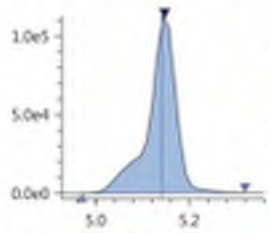
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Conc 5.0264
RT 5.044 Area 799680
Q 572.80>419.05 (-) 2.45e5



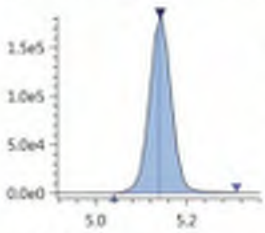
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Conc 5.0000
RT 5.044 Area 799680
ISTD 572.80>419.05 (-) 2.45e5



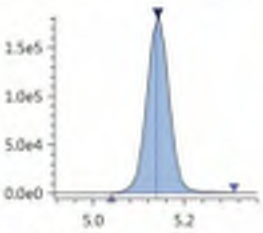
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Conc 5.9221
RT 5.147 Area 456126
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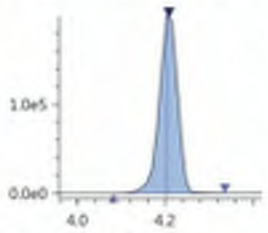
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Conc 4.7516
RT 5.142 Area 615112
Q 588.80>419.00 (-) 1.83e5



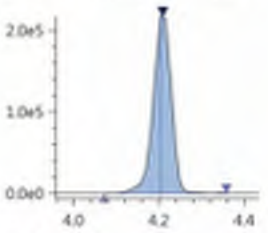
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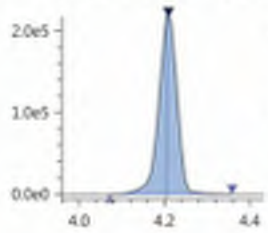
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Conc 4.7589
RT 4.209 Area 587988
Q 327.00>307.05 (-) 1.99e5



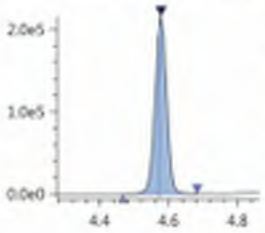
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Conc 5.9751
RT 4.209 Area 650885
Q 328.80>309.05 (-) 2.17e5



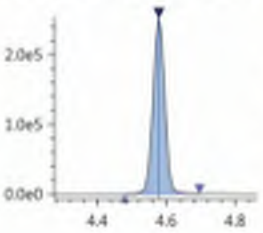
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Conc 5.0000
RT 4.209 Area 650885
ISTD 328.80>309.05 (-) 2.17e5



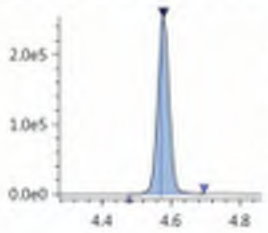
6_2-FTS_1
Conc 4.5698
RT 4.577 Area 501036
Q 427.00>407.00 (-) 2.16e5



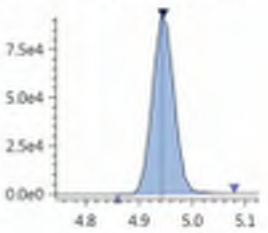
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Conc 5.0822
RT 4.578 Area 590095
Q 428.90>409.00 (-) 2.55e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.578 Area 590095
ISTD 428.90>409.00 (-) 2.55e5



8_2-FTS_1
Conc 4.9926
RT 4.945 Area 266751
Q 527.10>506.90 (-) 9.21e4

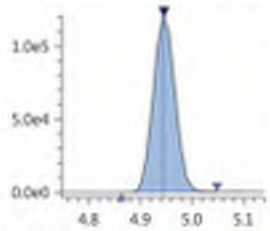


Manual Integration - Before

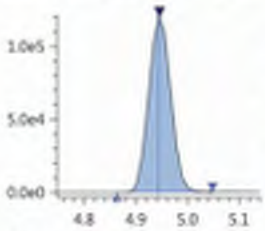
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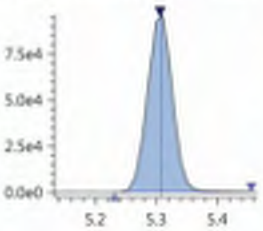
8_2-FTS-13C
Conc 4.9930
RT 4.946 Area 357682
Q 528.80>509.00 (-) 1.21e5



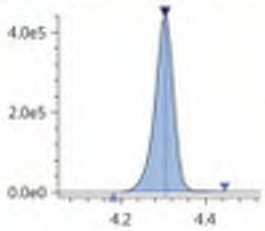
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Conc 5.0000
RT 4.946 Area 357682
ISTD 528.80>509.00 (-) 1.21e5



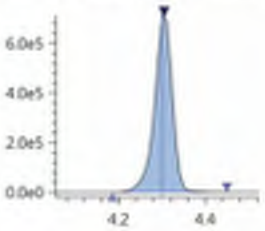
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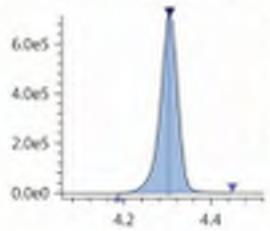
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Conc 4.8648
RT 4.304 Area 1384457
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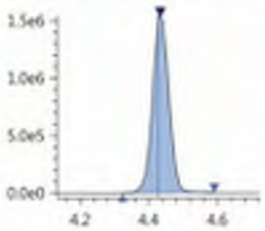
HFPO_DA-13C
Conc 5.6097
RT 4.305 Area 2053322
Q 332.00>286.80 (-) 7.14e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 2053322
ISTD 332.00>286.80 (-) 7.14e5



ADONA
Conc 4.5613
RT 4.433 Area 5138071
Q 377.00>251.00 (-) 1.54e6



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190920_013

Sample ID: 10.0 PPB ICAL
Date acquired: 9/20/2019 4:33:32 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_013.lcd
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.130	5767451	5767451	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.038	3383624	1493998	2	8.5267	ng/mL	8.8737
PFBS-13C	Auto	4.039	1496349	5767451	1	5.3152	ng/mL	5.0000
PFBS-13C_IS	Auto	4.039	1493998	1493998	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.257	919336	1493998	2	7.2940	ng/mL	9.4092
PFHxS_1	Auto	4.420	1991264	905860	3	7.8678	ng/mL	9.1308
PFHxS-18O	Auto	4.423	905860	5767451	1	5.7652	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.423	905860	905860	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.585	1666050	905860	3	7.2931	ng/mL	9.5344
PFOS_1	Auto	4.757	1519829	846400	4	8.5867	ng/mL	9.2923
PFOS-13C	Auto	4.757	846400	5767451	1	5.4036	ng/mL	5.0000
PFOS-13C_IS	Auto	4.757	846400	846400	4	5.0000	ng/mL	5.0000
PFNS	M	4.935	1171247	846400	4	10.0757	ng/mL	9.6158
PFDS_1	Auto	5.112	1452708	846400	4	8.9748	ng/mL	9.6467
PFDOS	Auto	5.444	1739945	846400	4	9.4968	ng/mL	9.6956
9Cl-PF3ONS	Auto	4.860	11570638	846400	4	9.2452	ng/mL	9.3324
11Cl-PF3OUdS	Auto	5.209	6571233	846400	4	8.7318	ng/mL	9.4320
PFBA	Auto	3.445	9279423	5014330	5	9.7366	ng/mL	10.0000
PFBA-13C	Auto	3.445	5014330	5767451	1	5.4453	ng/mL	5.0000
PFBA-13C_IS	Auto	3.445	5014330	5014330	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.987	12178579	3193043	6	9.9346	ng/mL	10.0000
PFPeA-13C	Auto	3.987	3193043	5767451	1	5.2938	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.987	3193043	3193043	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.240	12456970	7463158	7	9.7939	ng/mL	10.0000
PFHxA-13C	Auto	4.240	7463158	5767451	1	5.3635	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.240	7463158	7463158	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.421	12246052	6246227	8	9.8507	ng/mL	10.0000
PFHpA-13C	Auto	4.421	6246227	5767451	1	5.3093	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.421	6246227	6246227	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.591	16292180	7056658	9	9.8586	ng/mL	10.0000
PFOA-13C	Auto	4.591	7056658	5767451	1	5.0844	ng/mL	5.0000
PFOA-13C_IS	Auto	4.591	7056658	7056658	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.768	10058855	5676845	10	10.2412	ng/mL	10.0000
PFNA-13C	Auto	4.768	5676845	5767451	1	5.3830	ng/mL	5.0000
PFNA-13C_IS	Auto	4.768	5676845	5676845	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.950	10824427	5204930	11	9.6533	ng/mL	10.0000
PFDA-13C	Auto	4.950	5204930	5767451	1	5.5847	ng/mL	5.0000
PFDA-13C_IS	Auto	4.950	5204930	5204930	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.130	6846692	4113411	12	9.5954	ng/mL	10.0000
PFUnA-13C	Auto	5.130	4113411	5767451	1	4.9845	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.130	4113411	4113411	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.305	10223132	7764200	13	10.1581	ng/mL	10.0000
PFDoA-13C	Auto	5.305	7764200	5767451	1	5.7290	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.305	7764200	7764200	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.469	12878484	8588469	14	9.9966	ng/mL	10.0000
PFTeDA	Auto	5.619	8425646	8588469	14	10.3593	ng/mL	10.0000
PFTeDA-13C	Auto	5.619	8588469	5767451	1	4.9144	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.619	8588469	8588469	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.955	12766574	8653942	15	9.9495	ng/mL	10.0000
13C-PFHxDA	Auto	5.954	8653942	5767451	1	5.3711	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.954	8653942	8653942	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.468	10009588	8653942	15	9.9018	ng/mL	10.0000
FOSA	Auto	5.232	5851832	2812054	16	9.1804	ng/mL	10.0000
FOSA-13C	Auto	5.231	2812054	5767451	1	5.3636	ng/mL	5.0000
FOSA-13C_IS	Auto	5.231	2812054	2812054	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.617	2288989	849201	17	9.2533	ng/mL	10.0000
N-MeFOSA-d3	Auto	5.614	849201	5767451	1	5.4896	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.614	849201	849201	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.754	418416	1208228	18	9.6455	ng/mL	10.0000
N-EtFOSA-d9	Auto	5.749	1208228	5767451	1	5.4207	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.749	1208228	1208228	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.590	2417613	875699	19	9.2436	ng/mL	10.0000
N-MeFOSE-d7	Auto	5.582	875699	5767451	1	5.3900	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.582	875699	875699	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.720	2604584	636354	20	9.5576	ng/mL	10.0000
N-EtFOSE-d9	Auto	5.708	636354	5767451	1	5.4127	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.708	636354	636354	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.047	1229857	842615	21	8.9448	ng/mL	10.0000

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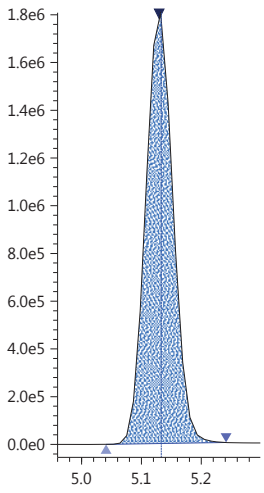
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.044	842615	5767451	1	5.5767	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.044	842615	842615	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.146	809295	619126	22	10.5757	ng/mL	10.0000
N-EtFOSAA-d5	Auto	5.142	619126	5767451	1	5.0359	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.142	619126	619126	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.209	978419	588053	23	8.8488	ng/mL	9.3722
4_2-FTS-13C	Auto	4.209	588053	5767451	1	5.6842	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.209	588053	588053	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.577	902822	545723	24	9.0731	ng/mL	9.5117
6_2-FTS-13C	Auto	4.578	545723	5767451	1	4.9490	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.578	545723	545723	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.945	473508	325507	25	9.7990	ng/mL	9.6004
8_2-FTS-13C	Auto	4.946	325507	5767451	1	4.7846	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.946	325507	325507	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.308	500282	325507	25	9.5341	ng/mL	9.6619
HPFO_DA	Auto	4.305	2643701	1899112	26	10.0617	ng/mL	10.0000
HFPO_DA-13C	Auto	4.305	1899112	5767451	1	5.4632	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.305	1899112	1899112	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.435	8553587	1899112	26	8.1752	ng/mL	9.4505

13C7-PFUnDA_IS

Conc 5.0000
RT 5.130 Area 5767451

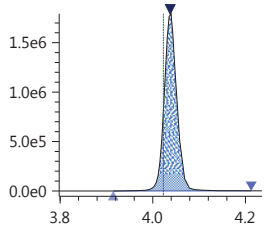
ISTD 570.00>525.00 (-) 1.81e6



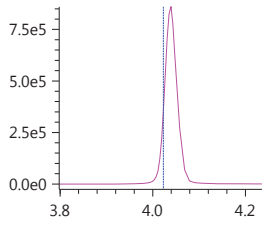
PFBS_1

Conc 8.5267
RT 4.038 Area 3383624
R#1 46.85 (0.00)

Q 299.00>80.00 (-) 1.79e6



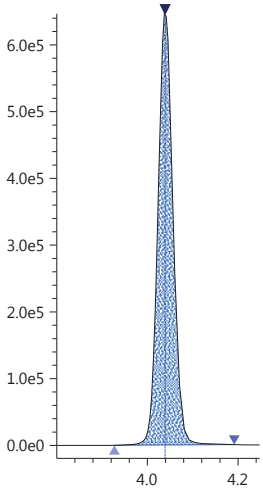
R1 298.80>99.00 (-) 8.60e5



PFBS-13C

Conc 5.3152
RT 4.039 Area 1496349

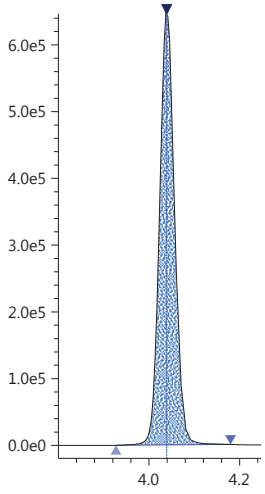
Q 301.80>80.00 (-) 6.47e5



PFBS-13C_IS

Conc 5.0000
RT 4.039 Area 1493998

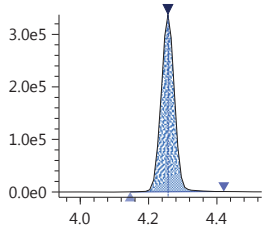
ISTD 301.80>80.00 (-) 6.47e5



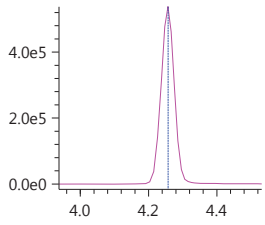
PFPeS

Conc 7.2940
RT 4.257 Area 919336
R#1 160.98 (0.00)

Q 349.00>99.00 (-) 3.37e5



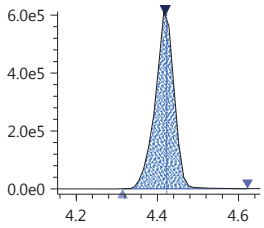
R1 349.00>79.95 (-) 5.37e5



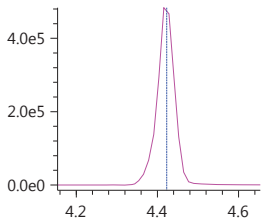
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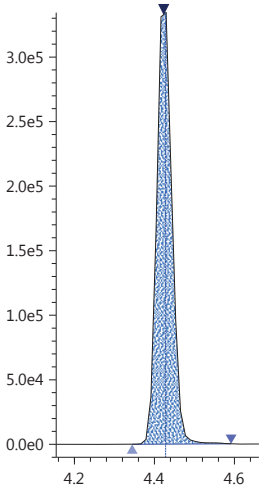
PFHxS_1
Conc 7.8678
RT 4.420 Area 1991264
R#1 77.78 (0.00)
Q 399.00>80.00 (-) 6.12e5



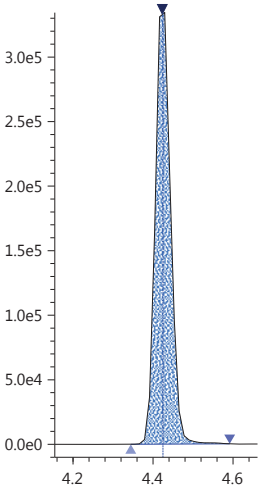
R1 399.00>99.00 (-) 4.84e5



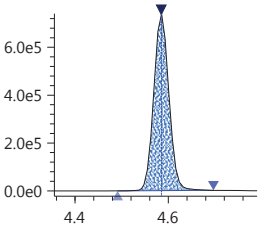
PFHxS-18O
Conc 5.7652
RT 4.423 Area 905860
Q 402.70>84.05 (-) 3.34e5



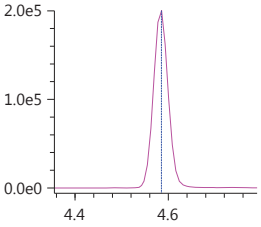
PFHxS-18O_IS
Conc 5.0000
RT 4.423 Area 905860
ISTD 402.70>84.05 (-) 3.34e5



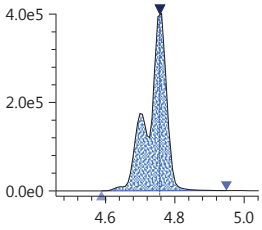
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Conc 7.2931
RT 4.585 Area 1666050
R#1 26.99 (0.00)
Q 449.00>80.15 (-) 7.41e5



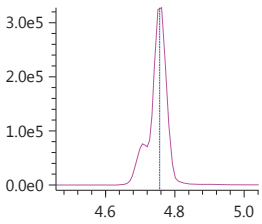
R1 449.00>99.20 (-) 2.00e5



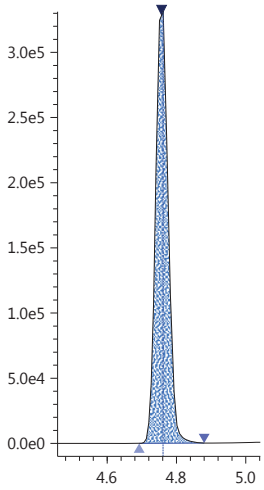
PFOS_1
Conc 8.5867
RT 4.757 Area 1519829
R#1 82.25 (0.00)
Q 499.00>80.00 (-) 4.01e5



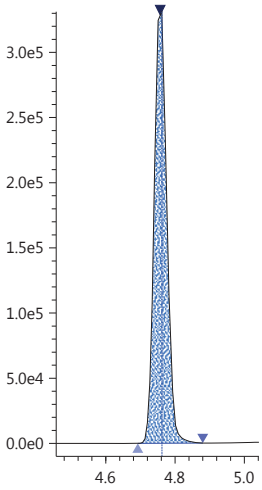
R1 499.00>99.00 (-) 3.28e5



PFOS-13C
Conc 5.4036
RT 4.757 Area 846400
Q 502.80>80.05 (-) 3.31e5

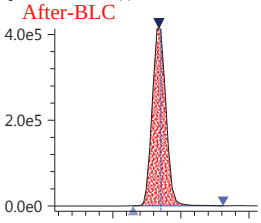


PFOS-13C_IS
Conc 5.0000
RT 4.757 Area 846400
ISTD 502.80>80.05 (-) 3.31e5

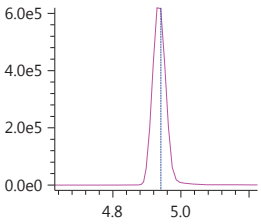


PFNS
Conc 10.0757
RT 4.935 Area 1171247
R#1 149.84 (0.00)
Q 549.00>99.00 (-) 4.13e5

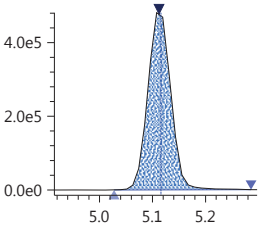
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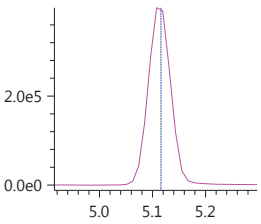
R1 549.00>79.95 (-) 6.20e5



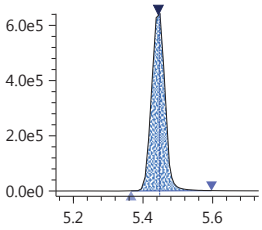
PFDS_1
Conc 8.9748
RT 5.112 Area 1452708
R#1 83.42 (0.00)
Q 599.00>79.90 (-) 4.81e5



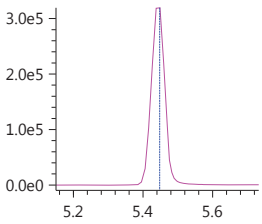
R1 599.00>99.10 (-) 3.98e5



PFDOS
Conc 9.4968
RT 5.444 Area 1739945
R#1 49.73 (0.00)
Q 699.00>79.95 (-) 6.42e5



R1 699.00>99.05 (-) 3.19e5



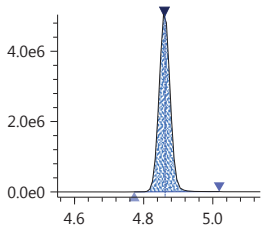
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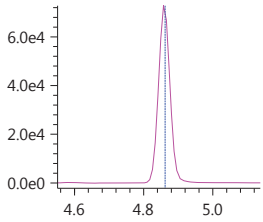
9Cl-PF3ONS

Conc 9.2452
RT 4.860 Area 11570638
R#1 1.45 (0.00)

Q 531.00>351.00 (-) 5.04e6



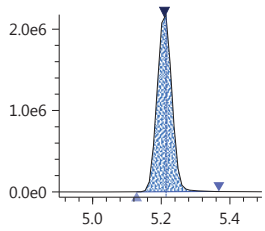
R1 531.00>98.90 (-) 7.28e4



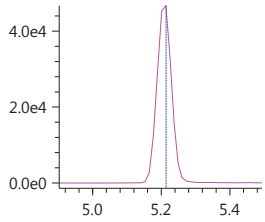
11Cl-PF3OUdS

Conc 8.7318
RT 5.209 Area 6571233
R#1 2.18 (0.00)

Q 631.00>451.05 (-) 2.18e6



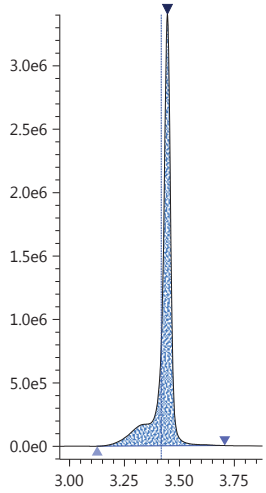
R1 631.00>98.90 (-) 4.67e4



PFBA

Conc 9.7366
RT 3.445 Area 9279423

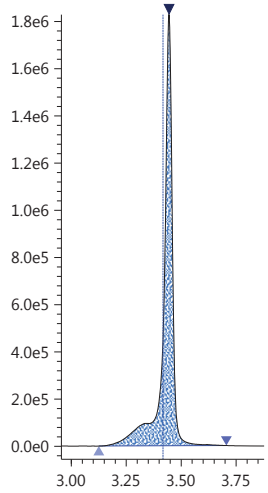
Q 213.00>169.10 (-) 3.40e6



PFBA-13C

Conc 5.4453
RT 3.445 Area 5014330

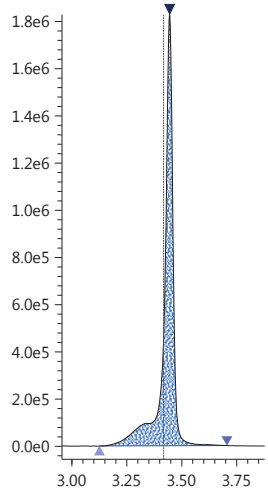
Q 216.90>172.15 (-) 1.83e6



PFBA-13C_IS

Conc 5.0000
RT 3.445 Area 5014330

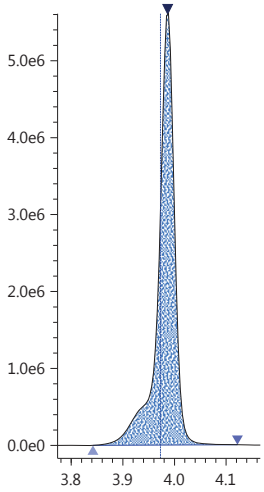
ISTD 216.90>172.15 (-) 1.83e6



PFPeA

Conc 9.9346
RT 3.987 Area 12178579

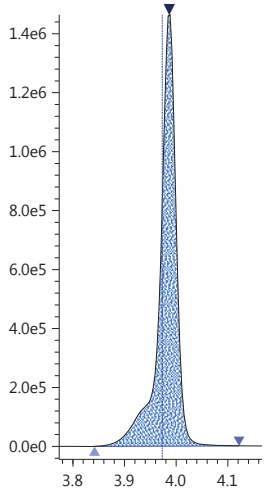
Q 263.05>219.10 (-) 5.61e6



PFPeA-13C

Conc 5.2938
RT 3.987 Area 3193043

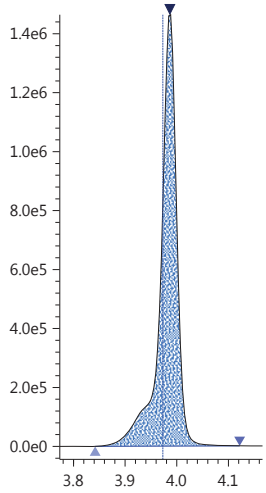
Q 267.90>223.00 (-) 1.46e6



PFPeA-13C_IS

Conc 5.0000
RT 3.987 Area 3193043

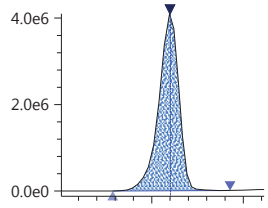
ISTD 267.90>223.00 (-) 1.46e6



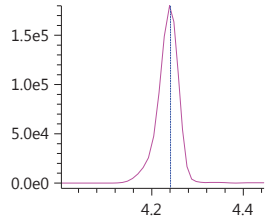
PFHxA

Conc 9.7939
RT 4.240 Area 12456970
R#1 4.39 (0.00)

Q 313.00>269.00 (-) 4.10e6



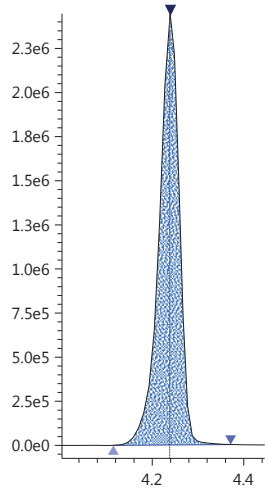
R1 313.00>119.10 (-) 1.80e5



PFHxA-13C

Conc 5.3635
RT 4.240 Area 7463158

Q 314.90>270.10 (-) 2.45e6



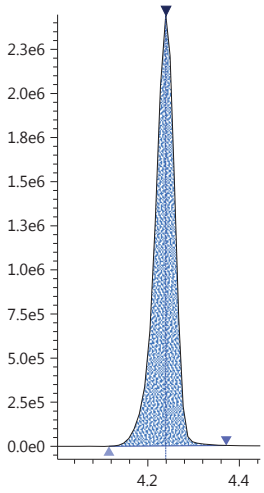
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Conc 5.0000
RT 4.240 Area 7463158

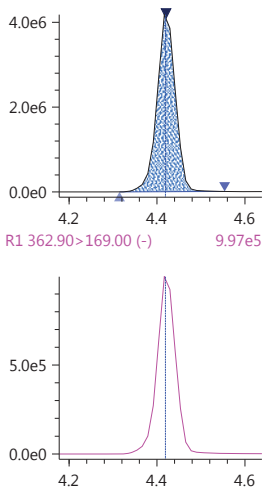
ISTD 314.90>270.10 (-) 2.45e6



PFHpA

Conc 9.8507
RT 4.421 Area 12246052
R#1 23.92 (0.00)

Q 362.90>319.00 (-) 4.18e6

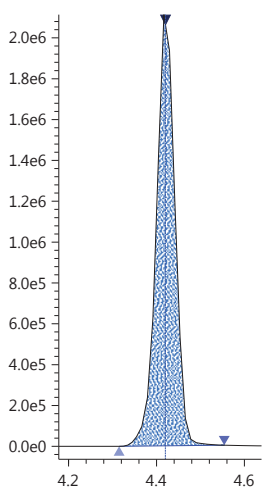


R1 362.90>169.00 (-) 9.97e5

PFHpA-13C

Conc 5.3093
RT 4.421 Area 6246227

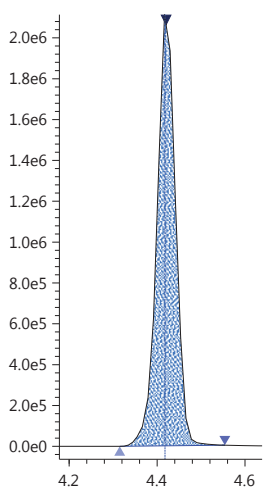
Q 366.90>322.10 (-) 2.11e6



PFHpA-13C_IS

Conc 5.0000
RT 4.421 Area 6246227

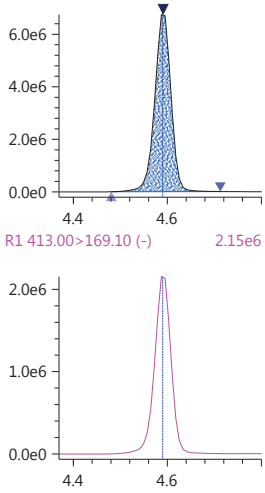
ISTD 366.90>322.10 (-) 2.11e6



PFOA

Conc 9.8586
RT 4.591 Area 16292180
R#1 31.92 (0.00)

Q 413.00>369.00 (-) 6.75e6

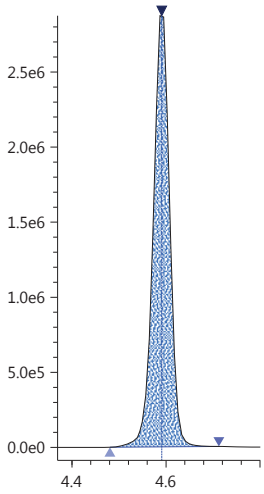


R1 413.00>169.10 (-) 2.15e6

PFOA-13C

Conc 5.0844
RT 4.591 Area 7056658

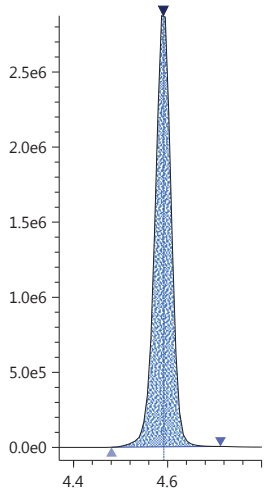
Q 416.80>372.05 (-) 2.87e6



PFOA-13C_IS

Conc 5.0000
RT 4.591 Area 7056658

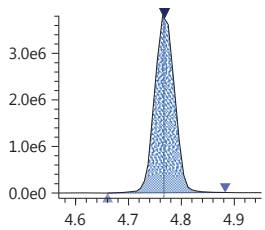
ISTD 416.80>372.05 (-) 2.87e6



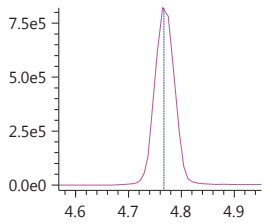
PFNA

Conc 10.2412
RT 4.768 Area 10058855
R#1 21.55 (0.00)

Q 463.00>418.90 (-) 3.81e6



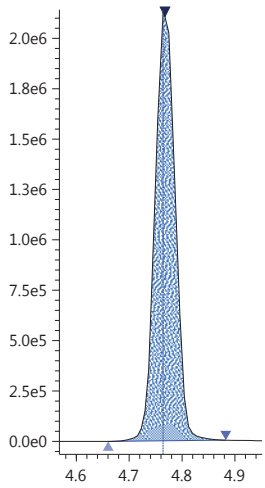
R1 463.00>219.00 (-) 8.21e5



PFNA-13C

Conc 5.3830
RT 4.768 Area 5676845

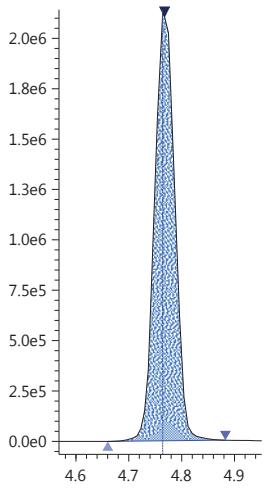
Q 467.80>423.00 (-) 2.14e6



PFNA-13C_IS

Conc 5.0000
RT 4.768 Area 5676845

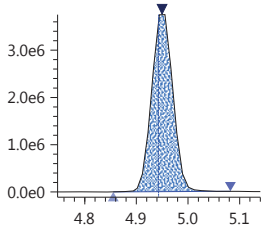
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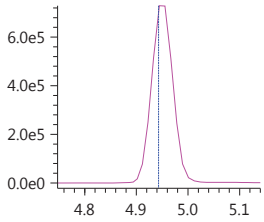
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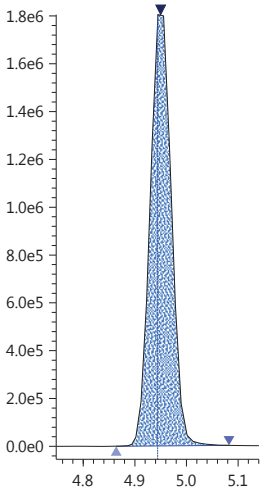
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Conc 9.6533
RT 4.950 Area 10824427
R#1 19.40 (0.00)
Q 513.00>468.80 (-) 3.75e6



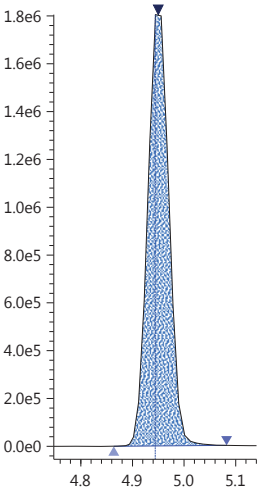
R1 513.00>219.10 (-) 7.29e5



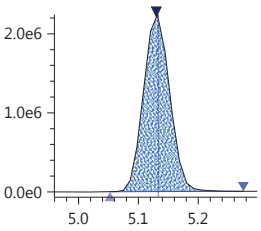
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RT 4.950 Area 5204930
Q 514.80>469.95 (-) 1.81e6



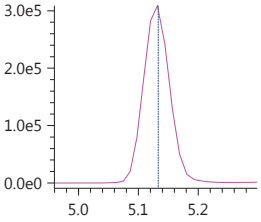
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Conc 5.0000
RT 4.950 Area 5204930
ISTD 514.80>469.95 (-) 1.81e6



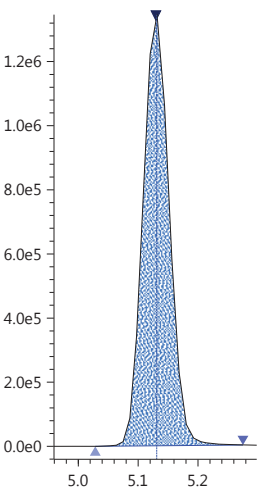
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Conc 9.5954
RT 5.130 Area 6846692
R#1 13.73 (0.00)
Q 563.00>518.90 (-) 2.24e6



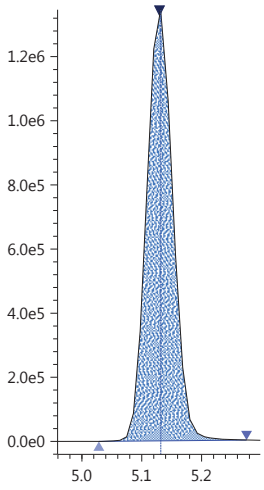
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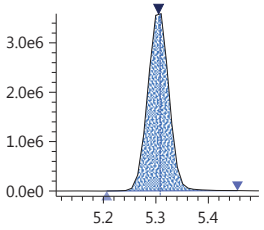
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Conc 4.9845
RT 5.130 Area 4113411
Q 564.80>519.95 (-) 1.35e6



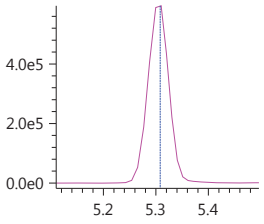
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RT 5.130 Area 4113411
ISTD 564.80>519.95 (-) 1.35e6



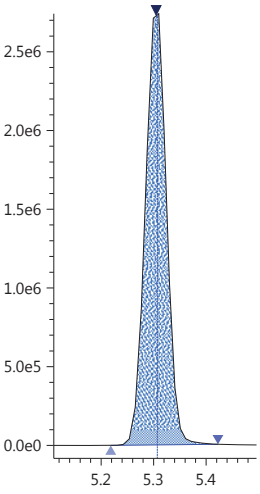
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Conc 10.1581
RT 5.305 Area 10223132
R#1 16.57 (0.00)
Q 613.05>569.00 (-) 3.59e6



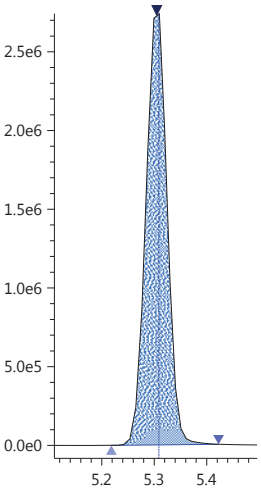
R1 613.05>169.00 (-) 5.95e5



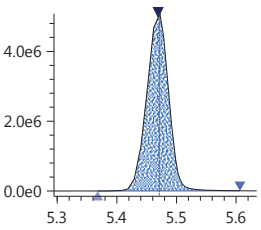
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Conc 5.7290
RT 5.305 Area 7764200
Q 614.80>569.95 (-) 2.74e6



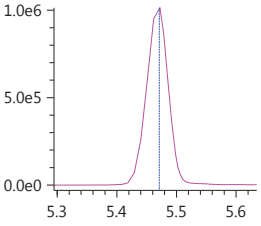
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Conc 5.0000
RT 5.305 Area 7764200
ISTD 614.80>569.95 (-) 2.74e6



PFTrDA
Conc 9.9966
RT 5.469 Area 12878484
R#1 20.06 (0.00)
Q 663.00>618.90 (-) 5.08e6



R1 662.90>169.00 (-) 1.01e6



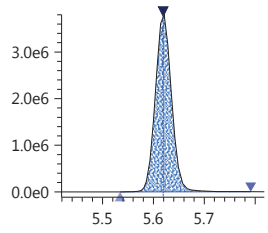
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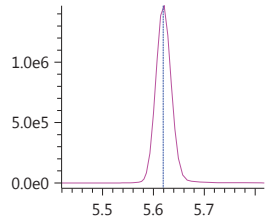
PFTeDA

Conc 10.3593
RT 5.619 Area 8425646
R#1 38.62 (0.00)

Q 713.40>669.00 (-) 3.80e6



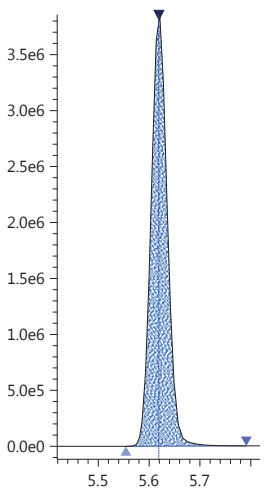
R1 713.40>169.10 (-) 1.47e6



PFTeDA-13C

Conc 4.9144
RT 5.619 Area 8588469

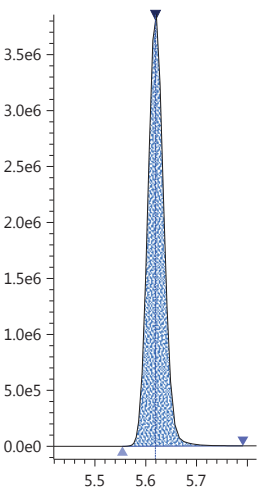
Q 714.70>669.90 (-) 3.86e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.619 Area 8588469

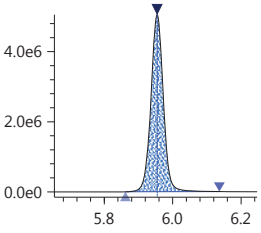
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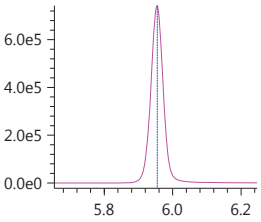
PFHxDA

Conc 9.9495
RT 5.955 Area 12766574
R#1 14.61 (0.00)

Q 813.00>769.05 (-) 5.06e6



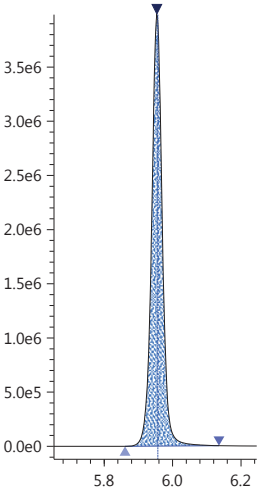
R1 813.00>218.95 (-) 7.42e5



13C-PFHxDA

Conc 5.3711
RT 5.954 Area 8653942

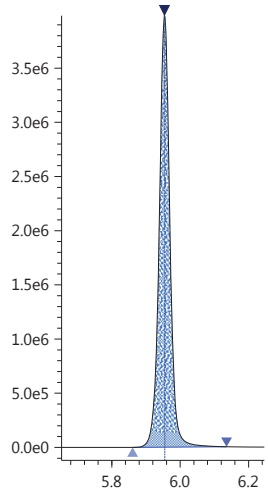
Q 815.00>770.05 (-) 3.98e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.954 Area 8653942

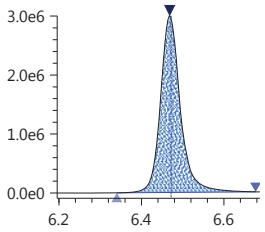
ISTD 815.00>770.05 (-) 3.98e6



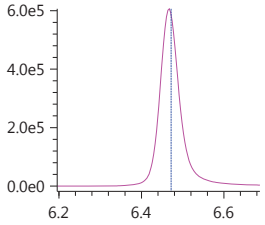
PFODA

Conc 9.9018
RT 6.468 Area 10009588
R#1 20.10 (0.00)

Q 913.00>868.85 (-) 3.01e6



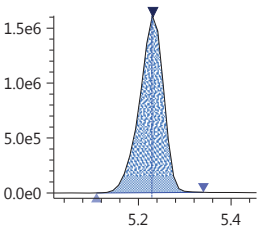
R1 913.00>169.00 (-) 6.07e5



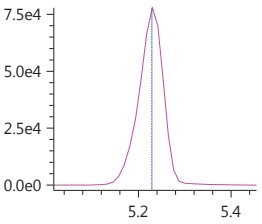
FOSA

Conc 9.1804
RT 5.232 Area 5851832
R#1 4.83 (0.00)

Q 498.20>78.00 (-) 1.61e6



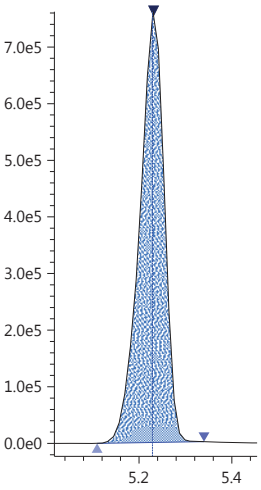
R1 498.20>64.10 (-) 7.79e4



FOSA-13C

Conc 5.3636
RT 5.231 Area 2812054

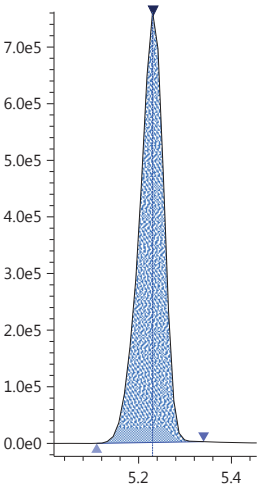
Q 506.00>78.05 (-) 7.62e5



FOSA-13C_IS

Conc 5.0000
RT 5.231 Area 2812054

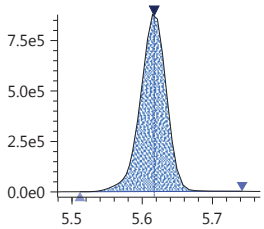
ISTD 506.00>78.05 (-) 7.62e5



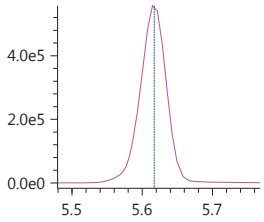
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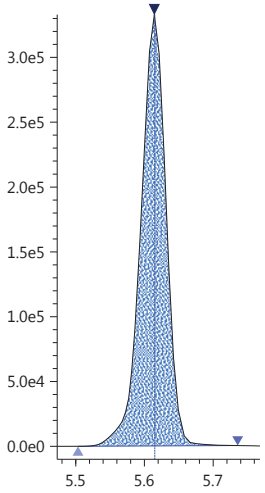
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Conc 9.2533
RT 5.617 Area 2288989
R#1 63.50 (0.00)
Q 512.00>169.10 (-) 8.79e5



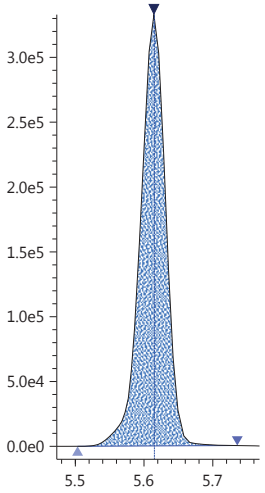
R1 512.00>219.00 (-) 5.57e5



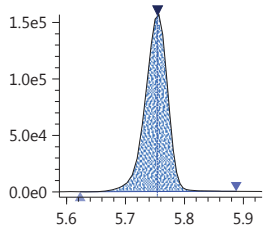
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Conc 5.4896
RT 5.614 Area 849201
Q 514.90>168.90 (-) 3.33e5



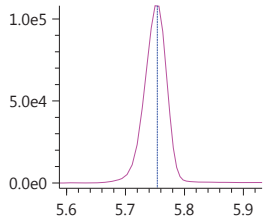
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Conc 5.0000
RT 5.614 Area 849201
ISTD 514.90>168.90 (-) 3.33e5



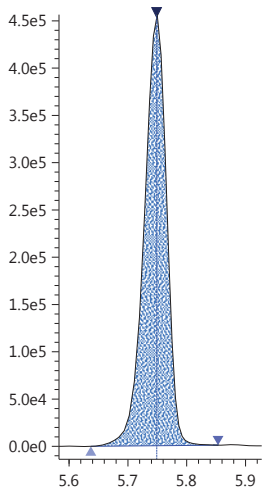
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Conc 9.6455
RT 5.754 Area 418416
R#1 68.67 (0.00)
Q 526.90>169.10 (-) 1.57e5



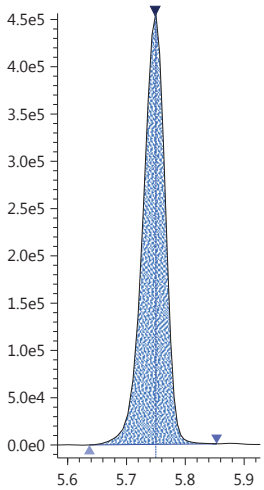
R1 526.90>219.00 (-) 1.08e5



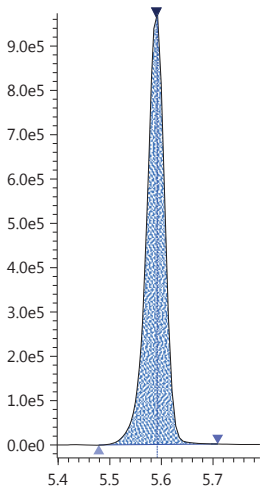
N-EtFOSA-d9
Conc 5.4207
RT 5.749 Area 1208228
Q 530.90>169.15 (-) 4.57e5



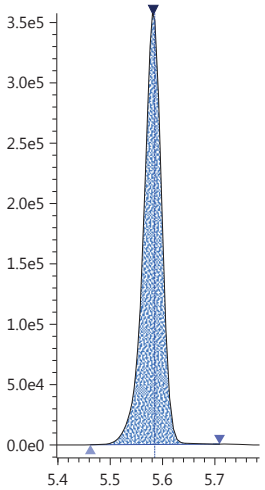
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Conc 5.0000
RT 5.749 Area 1208228
ISTD 530.90>169.15 (-) 4.57e5



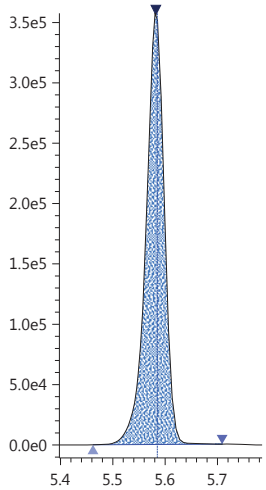
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Conc 9.2436
RT 5.590 Area 2417613
Q 616.00>59.00 (-) 9.74e5



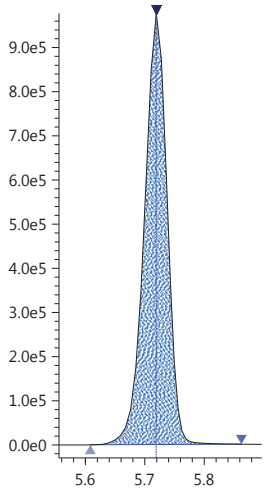
N-MeFOSE-d7
Conc 5.3900
RT 5.582 Area 875699
Q 622.70>59.10 (-) 3.58e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.582 Area 875699
ISTD 622.70>59.10 (-) 3.58e5



N-EtFOSE
Conc 9.5576
RT 5.720 Area 2604584
Q 630.00>58.90 (-) 9.78e5



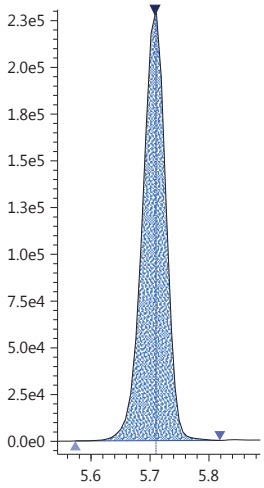
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N-EtFOSE-d9

Conc 5.4127
RT 5.708 Area 636354

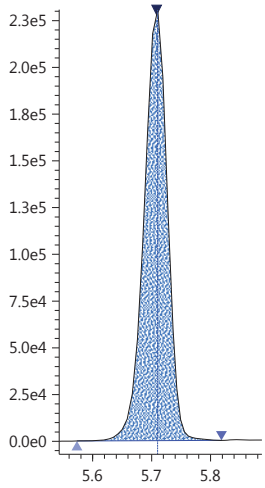
Q 638.70>59.10 (-) 2.31e5



N-EtFOSE-d9_IS

Conc 5.0000
RT 5.708 Area 636354

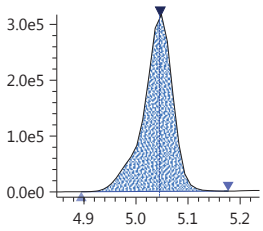
ISTD 638.70>59.10 (-) 2.31e5



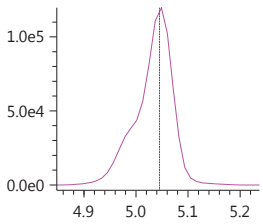
N-MeFOSAA

Conc 8.9448
RT 5.047 Area 1229857
R#1 37.67 (0.00)

Q 570.20>419.00 (-) 3.18e5



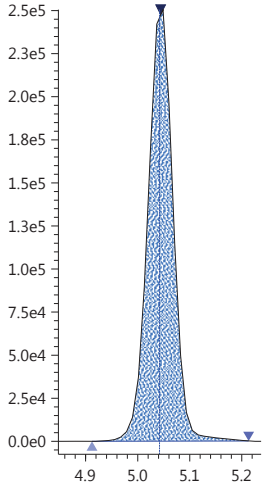
R1 570.20>512.00 (-) 1.20e5



N-MeFOSAA-d3

Conc 5.5767
RT 5.044 Area 842615

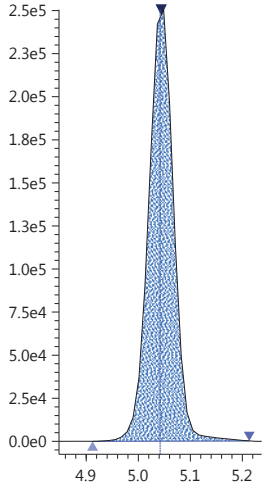
Q 572.80>419.05 (-) 2.51e5



N-MeFOSAA-d3_IS

Conc 5.0000
RT 5.044 Area 842615

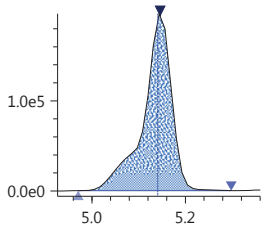
ISTD 572.80>419.05 (-) 2.51e5



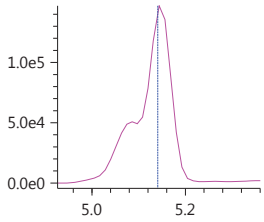
N-EtFOSAA

Conc 10.5757
RT 5.146 Area 809295
R#1 73.97 (0.00)

Q 584.20>418.95 (-) 1.97e5



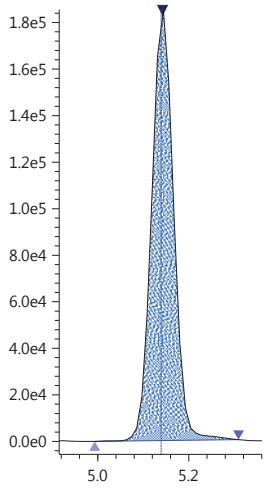
R1 584.20>526.10 (-) 1.47e5



N-EtFOSAA-d5

Conc 5.0359
RT 5.142 Area 619126

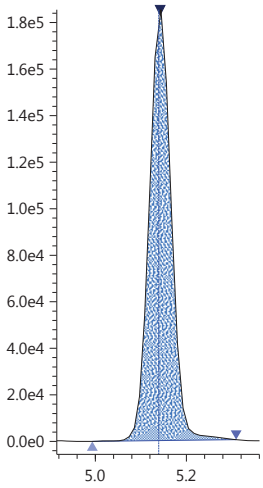
Q 588.80>419.00 (-) 1.86e5



N-EtFOSAA-d5_IS

Conc 5.0000
RT 5.142 Area 619126

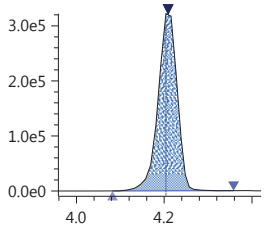
ISTD 588.80>419.00 (-) 1.86e5



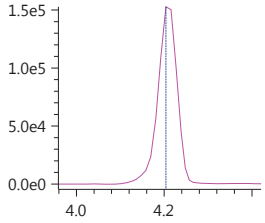
4_2-FTS_1

Conc 8.8488
RT 4.209 Area 978419
R#1 47.41 (0.00)

Q 327.00>307.05 (-) 3.22e5



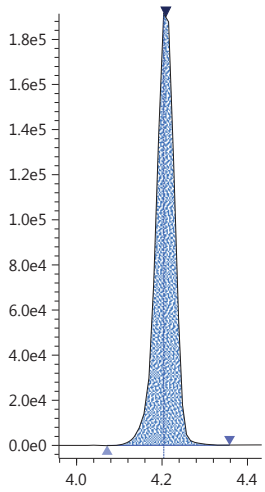
R1 327.00>81.10 (-) 1.53e5



4_2-FTS-13C

Conc 5.6842
RT 4.209 Area 588053

Q 328.80>309.05 (-) 1.91e5

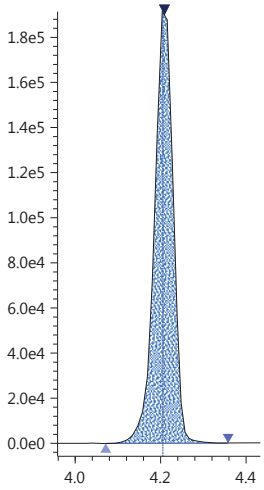


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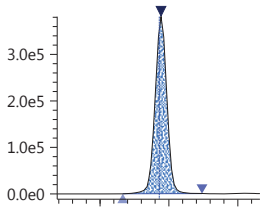
4_2-FTS-13C_IS
Conc 5.0000
RT 4.209 Area 588053

ISTD 328.80>309.05 (-) 1.91e5

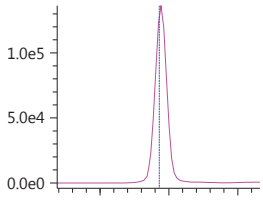


6_2-FTS_1
Conc 9.0731
RT 4.577 Area 902822
R#1 35.71 (0.00)

Q 427.00>407.00 (-) 3.81e5

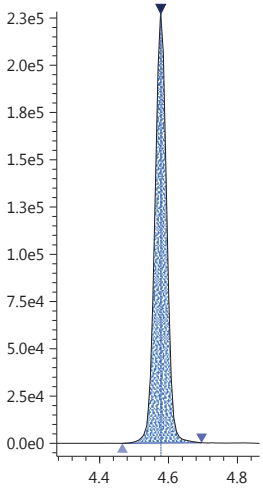


R1 427.00>80.90 (-) 1.36e5



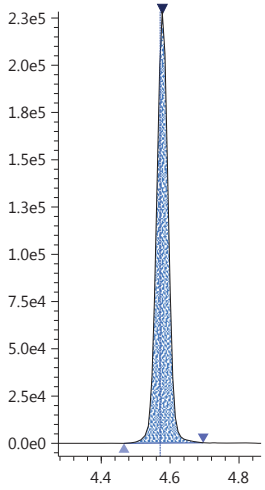
6_2-FTS-13C
Conc 4.9490
RT 4.578 Area 545723

Q 428.90>409.00 (-) 2.28e5



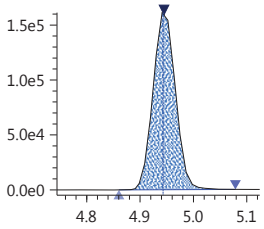
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Conc 5.0000
RT 4.578 Area 545723

ISTD 428.90>409.00 (-) 2.28e5

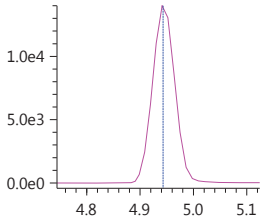


8_2-FTS_1
Conc 9.7990
RT 4.945 Area 473508
R#1 8.69 (0.00)

Q 527.10>506.90 (-) 1.61e5

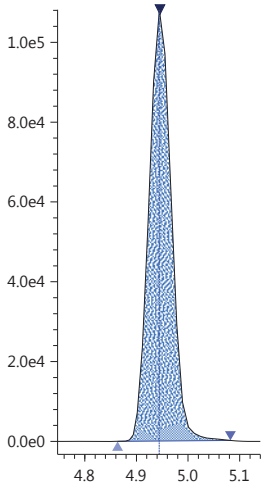


R1 527.20>487.00 (-) 1.40e4



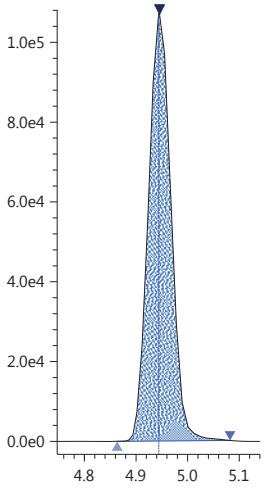
8_2-FTS-13C
Conc 4.7846
RT 4.946 Area 325507

Q 528.80>509.00 (-) 1.08e5



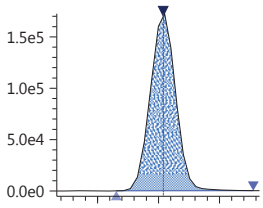
8_2-FTS-13C_IS
Conc 5.0000
RT 4.946 Area 325507

ISTD 528.80>509.00 (-) 1.08e5

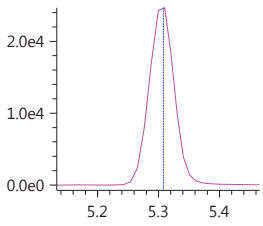


10_2-FtS_1
Conc 9.5341
RT 5.308 Area 500282
R#1 14.27 (0.00)

Q 627.00>606.95 (-) 1.73e5

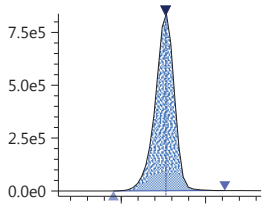


R1 627.00>81.25 (-) 2.47e4

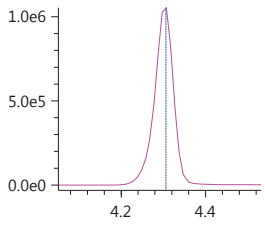


HPFO_DA
Conc 10.0617
RT 4.305 Area 2643701
R#1 131.86 (0.00)

Q 329.00>169.00 (-) 8.38e5

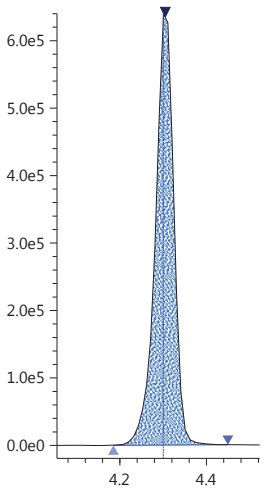


R1 329.00>285.10 (-) 1.05e6



HFPO_DA-13C
Conc 5.4632
RT 4.305 Area 1899112

Q 332.00>286.80 (-) 6.40e5



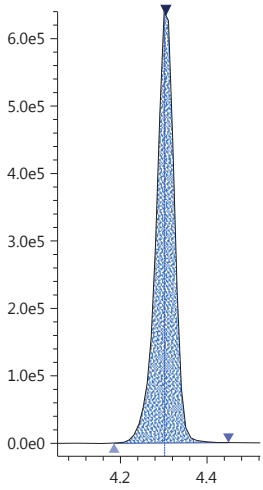
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.305 Area 1899112

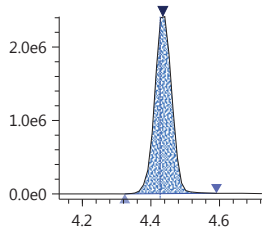
ISTD 332.00>286.80 (-) 6.40e5



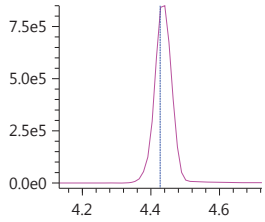
ADONA

Conc 8.1752
RT 4.435 Area 8553587
R#1 35.18 (0.00)

Q 377.00>251.00 (-) 2.41e6



R1 377.00>84.95 (-) 8.50e5



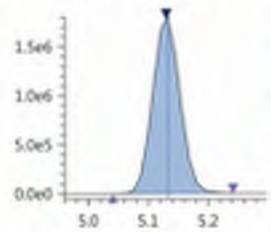
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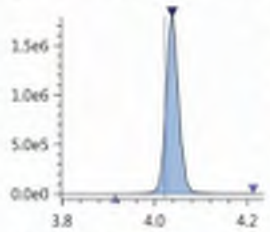
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Date acquired: 9/20/2019 4:33:32 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_013.lcd
Vial: 6 | Inj. Volume: 15.0000uL | Tray: 0

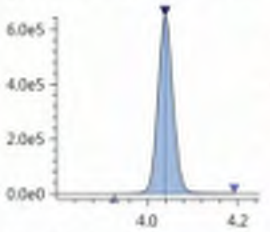
13C7-PFUnDA_IS
Conc 5.0000
RT 5.130 Area 5767451
ISTD 570.00>525.00 (-) 1.81e6



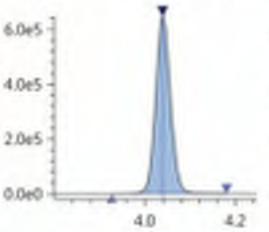
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Conc 8.4997
RT 4.038 Area 3383624
Q 299.00>80.00 (-) 1.79e6



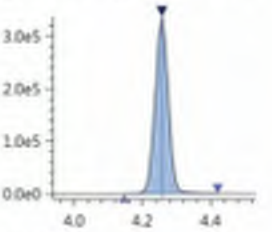
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Conc 5.3152
RT 4.039 Area 1496349
Q 301.80>80.00 (-) 6.47e5



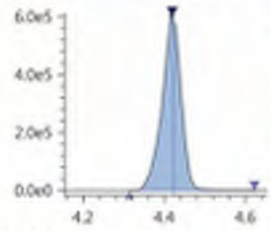
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RT 4.039 Area 1493998
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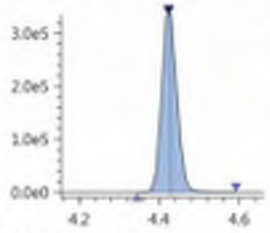
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Conc 7.2744
RT 4.257 Area 919336
Q 349.00>99.00 (-) 3.37e5



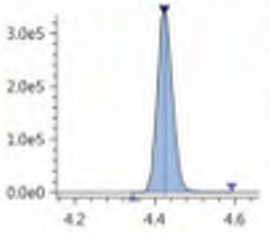
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RT 4.420 Area 1991264
Q 399.00>80.00 (-) 6.12e5



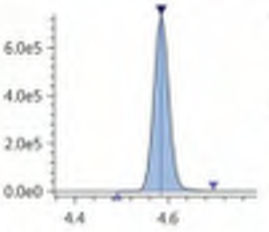
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RT 4.423 Area 905860
Q 402.70>84.05 (-) 3.34e5



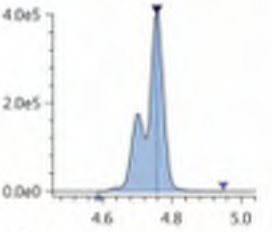
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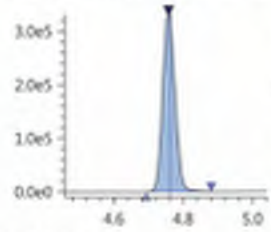
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Q 449.00>80.15 (-) 7.41e5



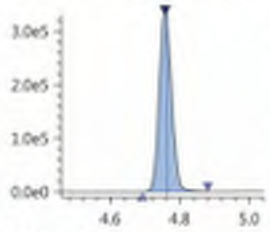
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Conc 8.5244
RT 4.757 Area 1519829
Q 499.00>80.00 (-) 4.01e5



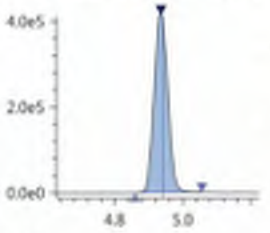
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Q 502.80>80.05 (-) 3.31e5



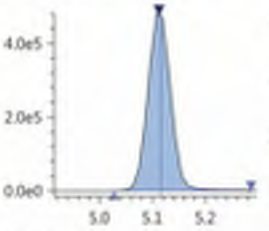
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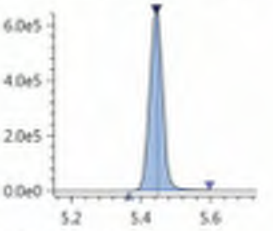
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Conc 10.0370
RT 4.935 Area 1161453
Q 549.00>99.00 (-) 4.13e5



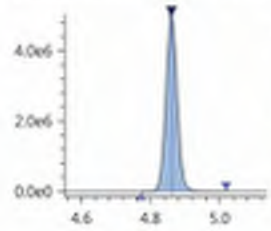
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Q 599.00>79.90 (-) 4.81e5



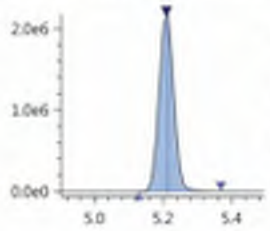
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Conc 9.5125
RT 5.444 Area 1739945
Q 699.00>79.95 (-) 6.42e5



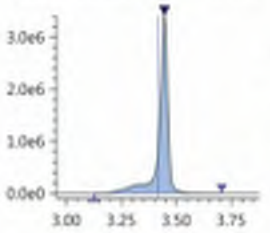
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Conc 9.2452
RT 4.860 Area 11570638
Q 531.00>351.00 (-) 5.04e6



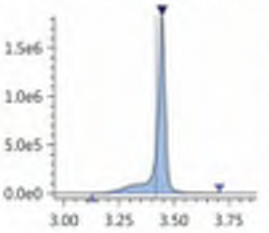
11Cl-PF3OUdS
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RT 5.209 Area 6571233
Q 631.00>451.05 (-) 2.18e6



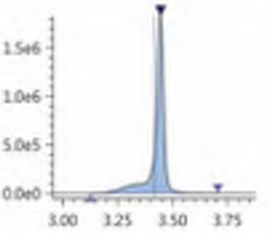
PFBA
Conc 7.5321
RT 3.445 Area 9279423
Q 213.00>169.10 (-) 3.40e6



PFBA-13C
Conc 5.4453
RT 3.445 Area 5014330
Q 216.90>172.15 (-) 1.83e6



PFBA-13C_IS
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RT 3.445 Area 5014330
ISTD 216.90>172.15 (-) 1.83e6

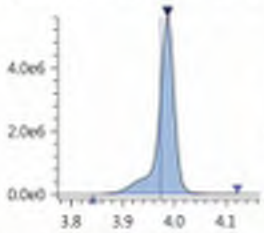


Manual Integration - Before

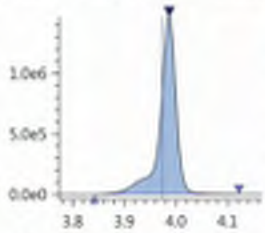
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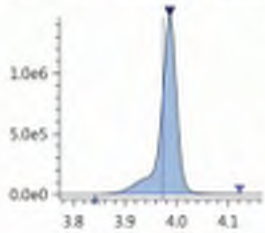
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RT 3.987 Area 12178579
Q 263.05>219.10 (-) 5.61e6



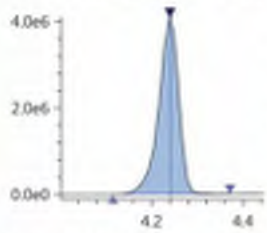
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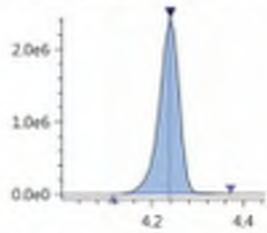
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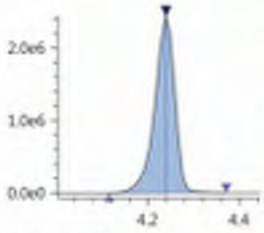
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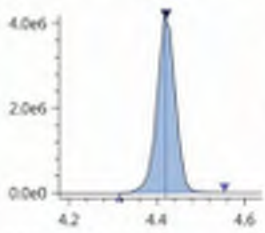
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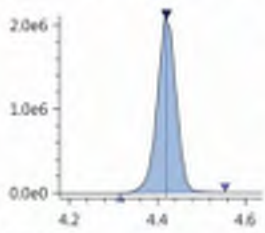
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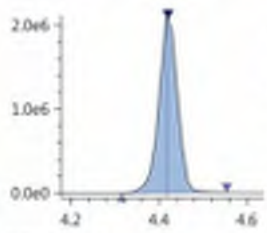
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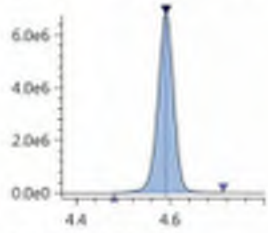
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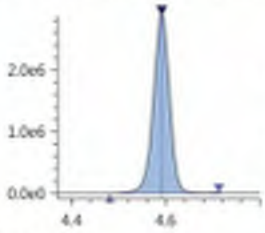
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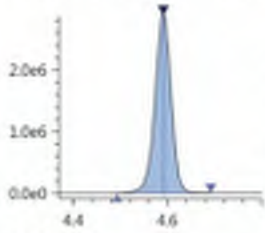
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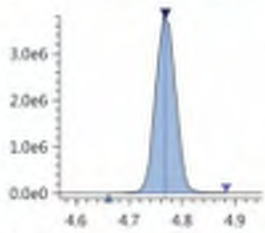
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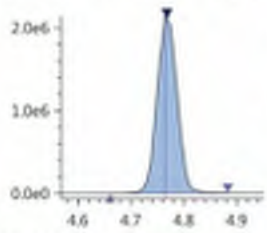
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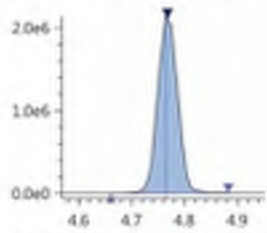
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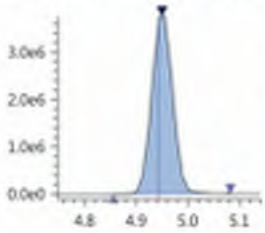
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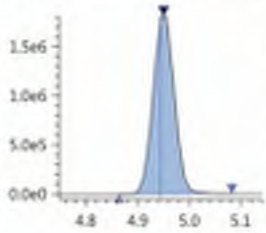
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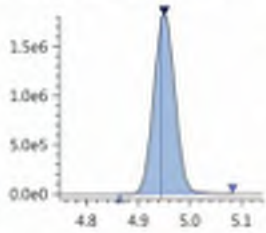
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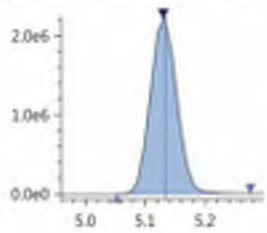
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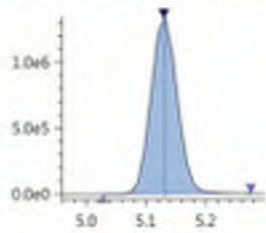
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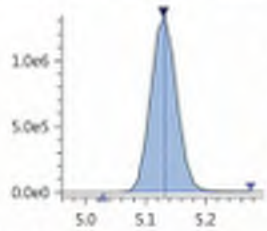
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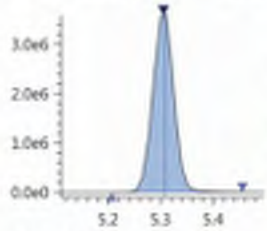
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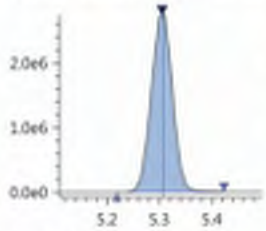
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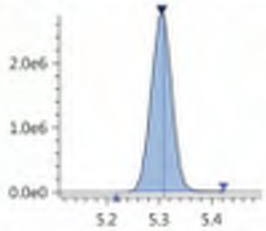
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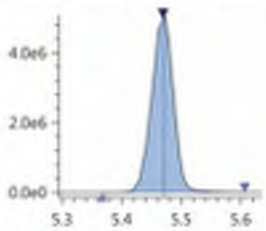
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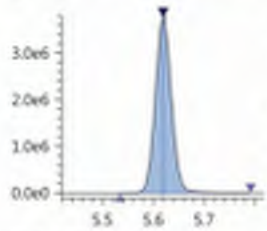
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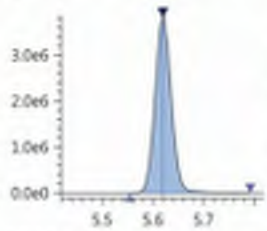
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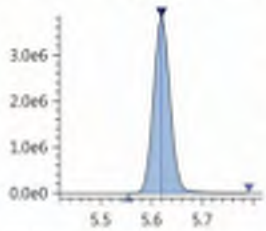
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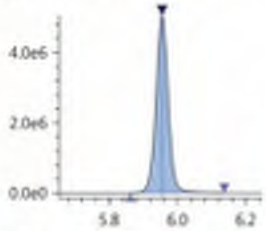
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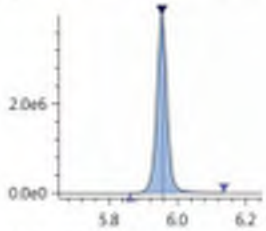
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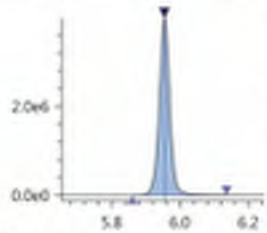
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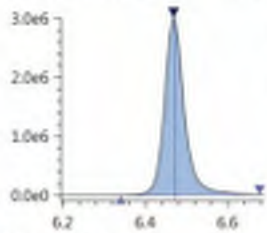
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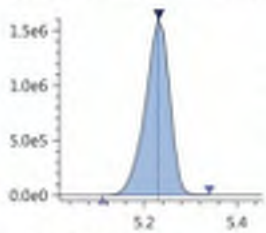
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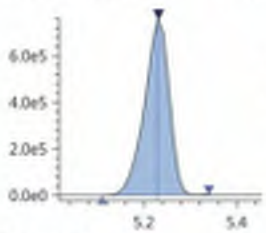
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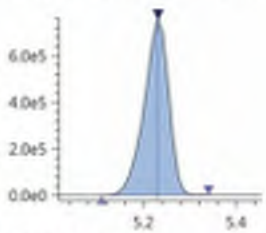
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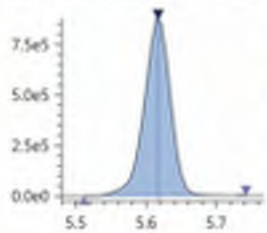
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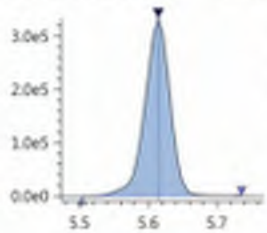
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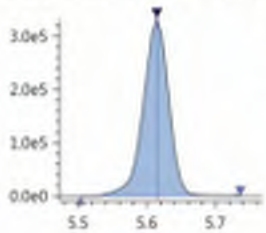
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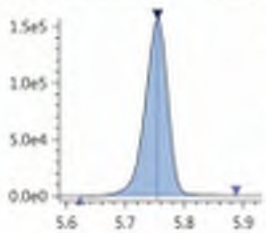
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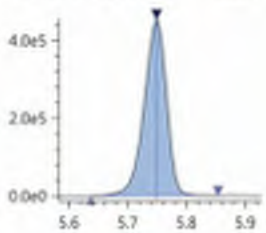
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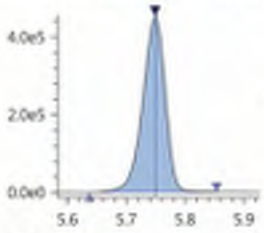
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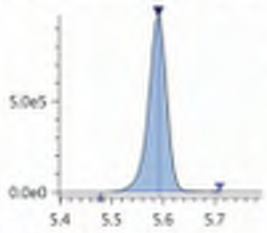
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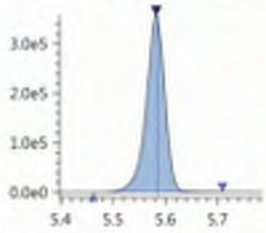
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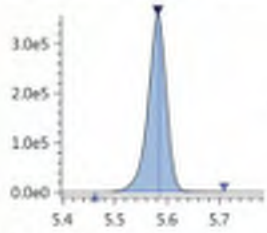
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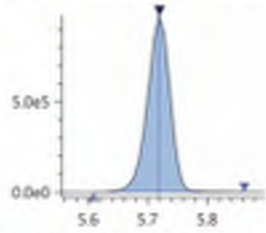
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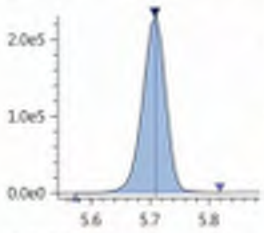
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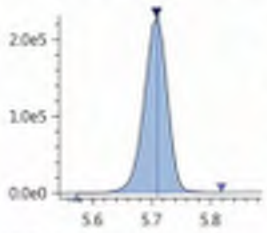
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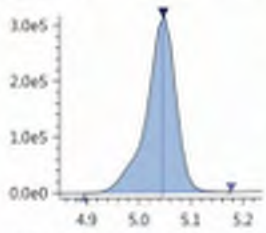
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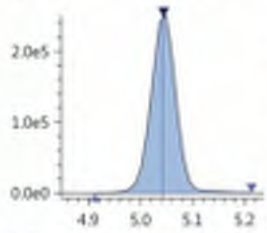
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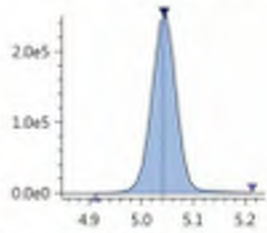
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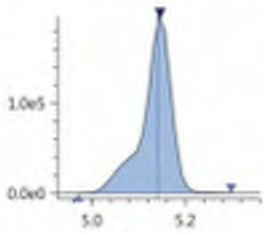
N-MeFOSAA-d3
Conc 5.5767
RT 5.044 Area 842615
Q 572.80>419.05 (-) 2.51e5



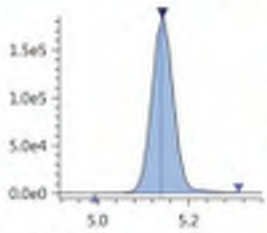
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Conc 5.0000
RT 5.044 Area 842615
ISTD 572.80>419.05 (-) 2.51e5



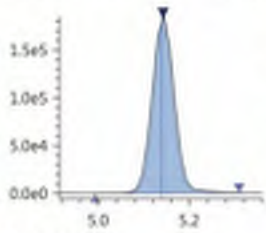
N-EtFOSAA
Conc 10.4393
RT 5.146 Area 809295
Q 584.20>418.95 (-) 1.97e5



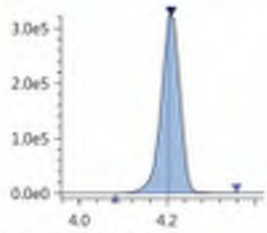
N-EtFOSAA-d5
Conc 5.0359
RT 5.142 Area 619126
Q 588.80>419.00 (-) 1.86e5



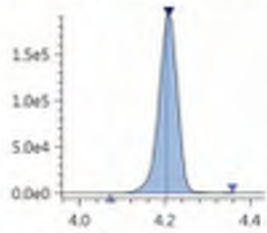
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.142 Area 619126
ISTD 588.80>419.00 (-) 1.86e5



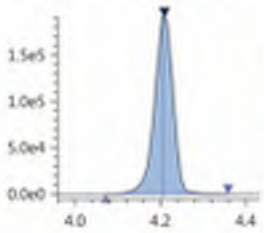
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Conc 8.7650
RT 4.209 Area 978419
Q 327.00>307.05 (-) 3.22e5



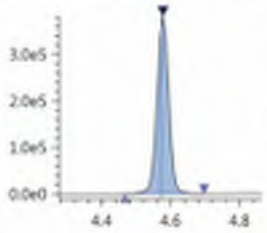
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Conc 5.6842
RT 4.209 Area 588053
Q 328.80>309.05 (-) 1.91e5



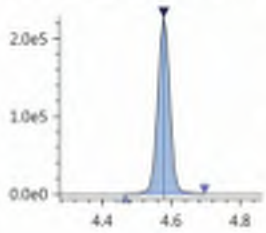
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Conc 5.0000
RT 4.209 Area 588053
ISTD 328.80>309.05 (-) 1.91e5



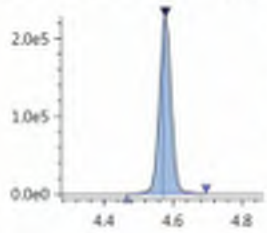
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Conc 8.9039
RT 4.577 Area 902822
Q 427.00>407.00 (-) 3.81e5



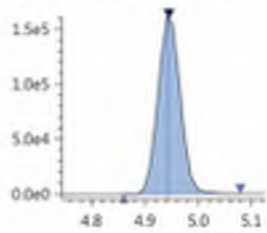
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Conc 4.9490
RT 4.578 Area 545723
Q 428.90>409.00 (-) 2.28e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.578 Area 545723
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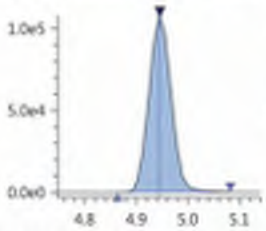
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Conc 9.7383
RT 4.945 Area 473508
Q 527.10>506.90 (-) 1.61e5



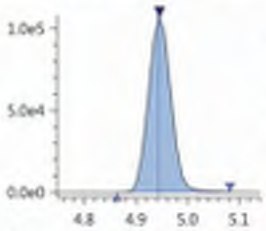
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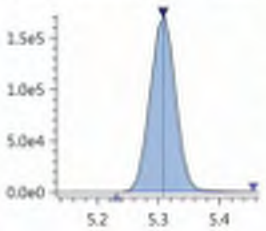
8_2-FTS-13C
Conc 4.7846
RT 4.946 Area 325507
Q 528.80>509.00 (-) 1.08e5



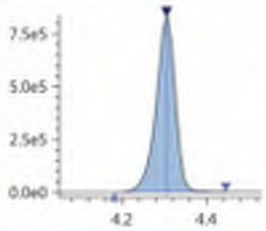
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ISTD 528.80>509.00 (-) 1.08e5



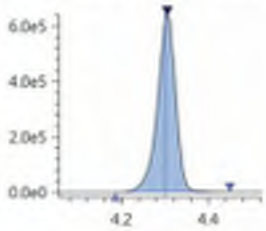
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Q 627.00>606.95 (-) 1.73e5



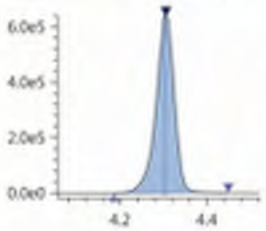
HPFO_DA
Conc 10.0439
RT 4.305 Area 2643701
Q 329.00>169.00 (-) 8.38e5



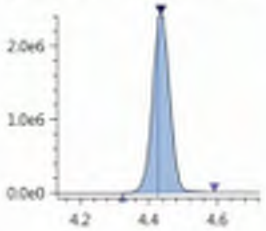
HFPO_DA-13C
Conc 5.4632
RT 4.305 Area 1899112
Q 332.00>286.80 (-) 6.40e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 1899112
ISTD 332.00>286.80 (-) 6.40e5



ADONA
Conc 8.2100
RT 4.435 Area 8553587
Q 377.00>251.00 (-) 2.41e6



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190920_014

Sample ID: 15.0 PPB ICAL
Date acquired: 9/20/2019 4:44:34 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_014.lcd
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.128	6274842	6274842	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.037	4947218	1493615	2	12.4702	ng/mL	13.3106
PFBS-13C	Auto	4.039	1493615	6274842	1	4.8764	ng/mL	5.0000
PFBS-13C_IS	Auto	4.039	1493615	1493615	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.255	1508803	1493615	2	11.9739	ng/mL	14.1138
PFHxS_1	Auto	4.418	2525857	730573	3	12.3746	ng/mL	13.6961
PFHxS-18O	Auto	4.422	730573	6274842	1	4.2736	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.422	730573	730573	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.583	2504882	730573	3	13.5959	ng/mL	14.3016
PFOS_1	Auto	4.755	2018758	725747	4	13.3017	ng/mL	13.9384
PFOS-13C	Auto	4.756	725747	6274842	1	4.2587	ng/mL	5.0000
PFOS-13C_IS	Auto	4.756	725747	725747	4	5.0000	ng/mL	5.0000
PFNS	Auto	4.934	1348619	725747	4	13.5302	ng/mL	14.4237
PFDS_1	Auto	5.111	1767404	725747	4	12.7342	ng/mL	14.4700
PFDOS	Auto	5.443	2368945	725747	4	15.0795	ng/mL	14.5434
9Cl-PF3ONS	Auto	4.858	15434231	725747	4	14.3825	ng/mL	13.9986
11Cl-PF3OUdS	Auto	5.208	11687203	725747	4	18.1117	ng/mL	14.1479
PFBA	Auto	3.446	13872543	4984567	5	14.6430	ng/mL	15.0000
PFBA-13C	Auto	3.444	4984567	6274842	1	4.9753	ng/mL	5.0000
PFBA-13C_IS	Auto	3.444	4984567	4984567	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.986	18394098	3187494	6	15.0827	ng/mL	15.0000
PFPeA-13C	Auto	3.986	3187494	6274842	1	4.8573	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.986	3187494	3187494	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.238	17467019	6801494	7	15.0773	ng/mL	15.0000
PFHxA-13C	Auto	4.238	6801494	6274842	1	4.4928	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.238	6801494	6801494	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.419	15966483	5266230	8	15.2425	ng/mL	15.0000
PFHpA-13C	Auto	4.419	5266230	6274842	1	4.1143	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.419	5266230	5266230	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.590	24503959	6884041	9	15.2050	ng/mL	15.0000
PFOA-13C	Auto	4.590	6884041	6274842	1	4.5590	ng/mL	5.0000
PFOA-13C_IS	Auto	4.590	6884041	6884041	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.766	12266374	4801779	10	14.7725	ng/mL	15.0000
PFNA-13C	Auto	4.766	4801779	6274842	1	4.1851	ng/mL	5.0000
PFNA-13C_IS	Auto	4.766	4801779	4801779	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.949	15340249	4556849	11	15.6261	ng/mL	15.0000
PFDA-13C	Auto	4.949	4556849	6274842	1	4.4940	ng/mL	5.0000
PFDA-13C_IS	Auto	4.949	4556849	4556849	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.128	11474902	4337474	12	15.2642	ng/mL	15.0000
PFUnA-13C	Auto	5.128	4337474	6274842	1	4.8310	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.128	4337474	4337474	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.304	14065340	7331764	13	14.8045	ng/mL	15.0000
PFDoA-13C	Auto	5.304	7331764	6274842	1	4.9725	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.304	7331764	7331764	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.468	19304776	8653764	14	14.8776	ng/mL	15.0000
PFTeDA	Auto	5.619	11898019	8653764	14	14.5756	ng/mL	15.0000
PFTeDA-13C	Auto	5.619	8653764	6274842	1	4.5514	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.619	8653764	8653764	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.950	19279829	8676044	15	15.0200	ng/mL	15.0000
13C-PFHxDA	Auto	5.950	8676044	6274842	1	4.9494	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.950	8676044	8676044	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.461	15299138	8676044	15	15.0958	ng/mL	15.0000
FOSA	Auto	5.231	9146457	2913270	16	13.8504	ng/mL	15.0000
FOSA-13C	Auto	5.231	2913270	6274842	1	5.1073	ng/mL	5.0000
FOSA-13C_IS	Auto	5.231	2913270	2913270	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.616	3347825	812339	17	14.1479	ng/mL	15.0000
N-MeFOSA-d3	Auto	5.613	812339	6274842	1	4.8267	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.613	812339	812339	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.752	633419	1242006	18	14.2047	ng/mL	15.0000
N-EtFOSA-d9	Auto	5.747	1242006	6274842	1	5.1216	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.747	1242006	1242006	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.590	3663789	928873	19	13.2063	ng/mL	15.0000
N-MeFOSE-d7	Auto	5.582	928873	6274842	1	5.2549	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.582	928873	928873	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.718	3854986	671054	20	13.4146	ng/mL	15.0000
N-EtFOSE-d9	Auto	5.708	671054	6274842	1	5.2463	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.708	671054	671054	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.045	1830279	840161	21	13.3506	ng/mL	15.0000

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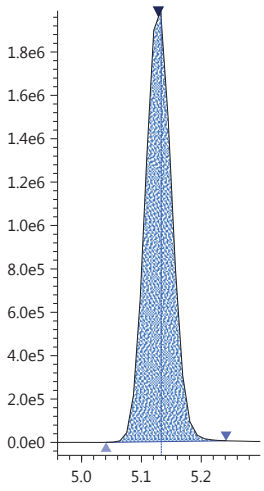
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.043	840161	6274842	1	5.1109	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.043	840161	840161	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.144	1139774	672127	22	13.7199	ng/mL	15.0000
N-EtFOSAA-d5	Auto	5.140	672127	6274842	1	5.0250	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.140	672127	672127	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.209	1654986	686072	23	12.8292	ng/mL	14.0583
4_2-FTS-13C	Auto	4.208	686072	6274842	1	6.0954	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.208	686072	686072	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.575	1300994	526836	24	13.5433	ng/mL	14.2676
6_2-FTS-13C	Auto	4.575	526836	6274842	1	4.3914	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.575	526836	526836	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.943	573767	304539	25	12.6913	ng/mL	14.4007
8_2-FTS-13C	Auto	4.943	304539	6274842	1	4.1144	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.943	304539	304539	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.307	721719	304539	25	14.7011	ng/mL	14.4929
HPFO_DA	Auto	4.304	4059951	2031366	26	15.5435	ng/mL	15.0000
HFPO_DA-13C	Auto	4.305	2031366	6274842	1	5.3711	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.305	2031366	2031366	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.433	13872333	2031366	26	12.3954	ng/mL	14.1758

13C7-PFUnDA_IS

Conc 5.0000
RT 5.128 Area 6274842

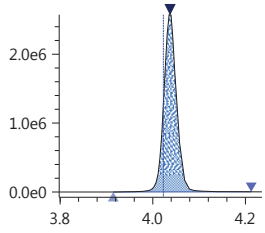
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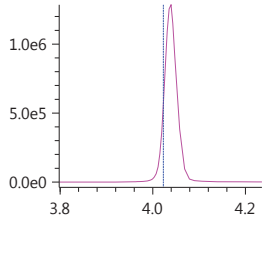
PFBS_1

Conc 12.4702
RT 4.037 Area 4947218
R#1 48.96 (0.00)

Q 299.00>80.00 (-) 2.57e6



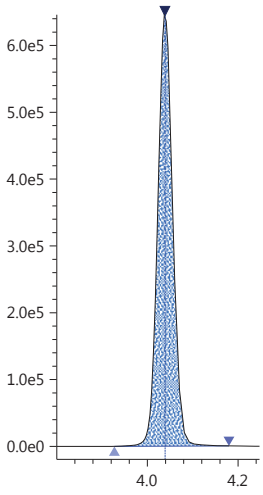
R1 298.80>99.00 (-) 1.29e6



PFBS-13C

Conc 4.8764
RT 4.039 Area 1493615

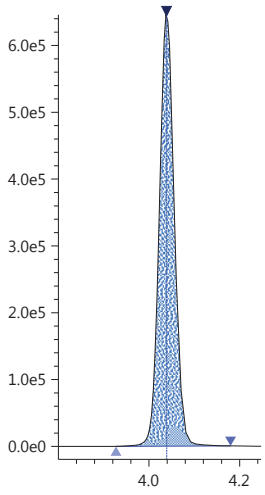
Q 301.80>80.00 (-) 6.46e5



PFBS-13C_IS

Conc 5.0000
RT 4.039 Area 1493615

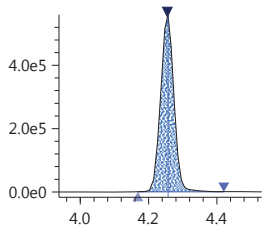
ISTD 301.80>80.00 (-) 6.46e5



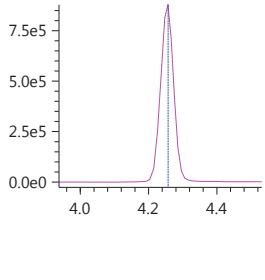
PFPeS

Conc 11.9739
RT 4.255 Area 1508803
R#1 158.23 (0.00)

Q 349.00>99.00 (-) 5.60e5



R1 349.00>79.95 (-) 8.78e5



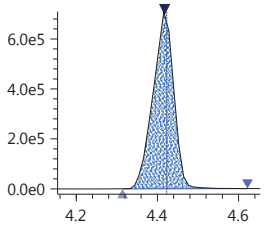
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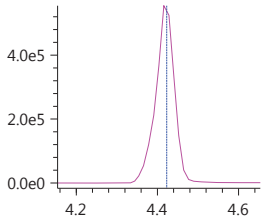
PFHxS_1

Conc 12.3746
RT 4.418 Area 2525857
R#1 76.66 (0.00)

Q 399.00>80.00 (-) 7.09e5



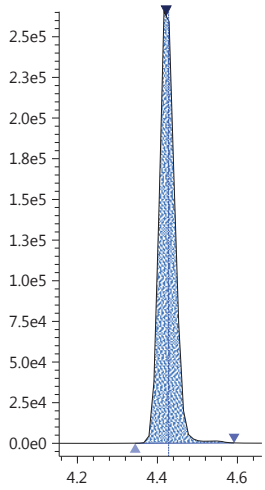
R1 399.00>99.00 (-) 5.55e5



PFHxS-18O

Conc 4.2736
RT 4.422 Area 730573

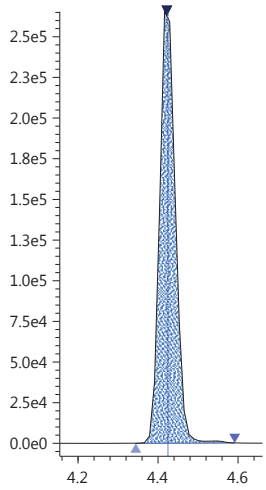
Q 402.70>84.05 (-) 2.65e5



PFHxS-18O_IS

Conc 5.0000
RT 4.422 Area 730573

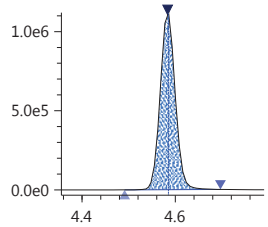
ISTD 402.70>84.05 (-) 2.65e5



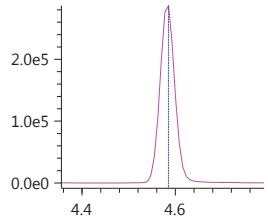
PFHpS_1

Conc 13.5959
RT 4.583 Area 2504882
R#1 26.28 (0.00)

Q 449.00>80.15 (-) 1.12e6



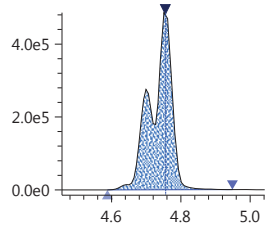
R1 449.00>99.20 (-) 2.87e5



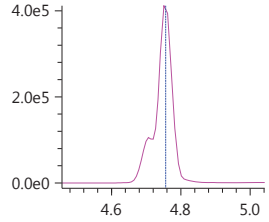
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Conc 13.3017
RT 4.755 Area 2018758
R#1 84.60 (0.00)

Q 499.00>80.00 (-) 4.86e5



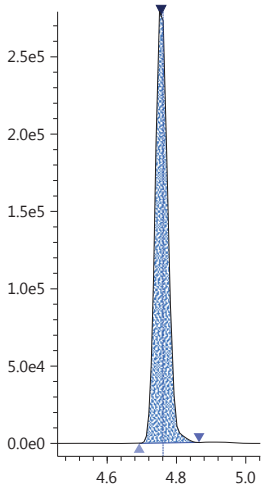
R1 499.00>99.00 (-) 4.12e5



PFOS-13C

Conc 4.2587
RT 4.756 Area 725747

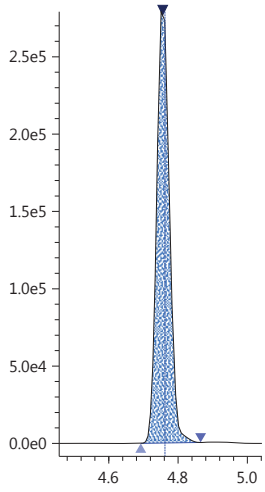
Q 502.80>80.05 (-) 2.79e5



PFOS-13C_IS

Conc 5.0000
RT 4.756 Area 725747

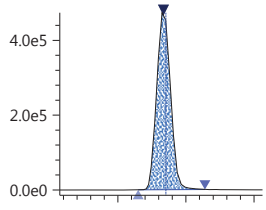
ISTD 502.80>80.05 (-) 2.79e5



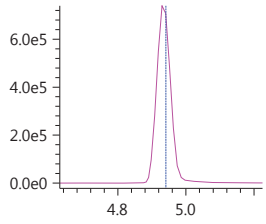
PFNS

Conc 13.5302
RT 4.934 Area 1348619
R#1 155.96 (0.00)

Q 549.00>99.00 (-) 4.74e5



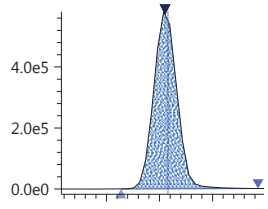
R1 549.00>79.95 (-) 7.39e5



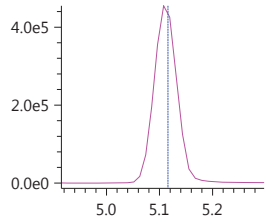
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Conc 12.7342
RT 5.111 Area 1767404
R#1 79.01 (0.00)

Q 599.00>79.90 (-) 5.81e5



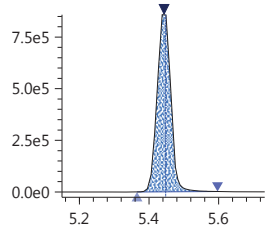
R1 599.00>99.10 (-) 4.55e5



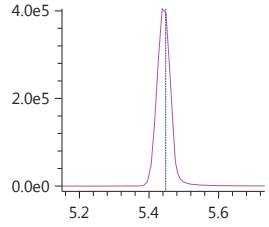
PFDOS

Conc 15.0795
RT 5.443 Area 2368945
R#1 46.14 (0.00)

Q 699.00>79.95 (-) 8.58e5



R1 699.00>99.05 (-) 4.05e5



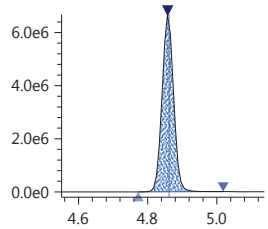
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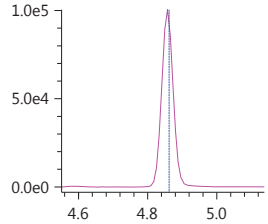
9Cl-PF3ONS

Conc 14.3825
RT 4.858 Area 15434231
R#1 1.51 (0.00)

Q 531.00>351.00 (-) 6.67e6



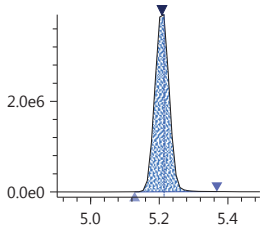
R1 531.00>98.90 (-) 1.00e5



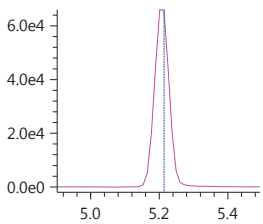
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Conc 18.1117
RT 5.208 Area 11687203
R#1 1.71 (0.00)

Q 631.00>451.05 (-) 3.91e6



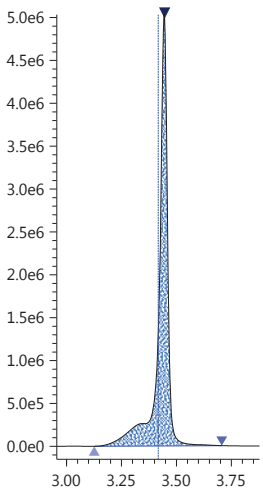
R1 631.00>98.90 (-) 6.60e4



PFBA

Conc 14.6430
RT 3.446 Area 13872543

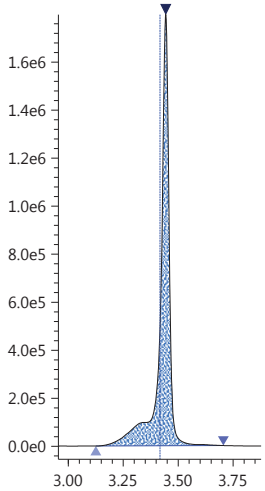
Q 213.00>169.10 (-) 5.03e6



PFBA-13C

Conc 4.9753
RT 3.444 Area 4984567

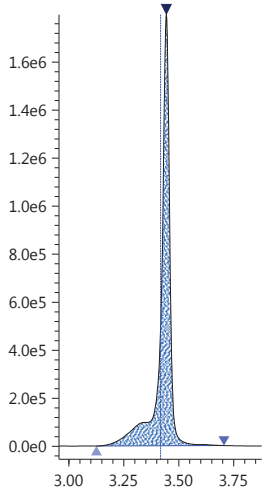
Q 216.90>172.15 (-) 1.80e6



PFBA-13C_IS

Conc 5.0000
RT 3.444 Area 4984567

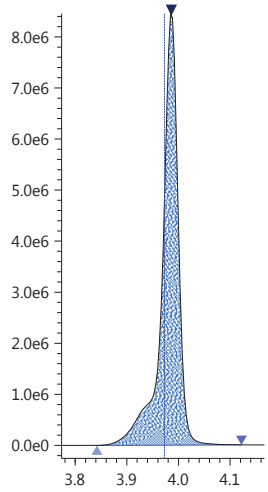
ISTD 216.90>172.15 (-) 1.80e6



PFPeA

Conc 15.0827
RT 3.986 Area 18394098

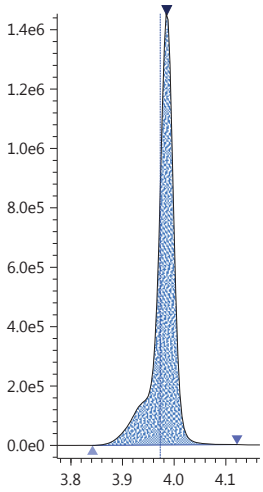
Q 263.05>219.10 (-) 8.45e6



PFPeA-13C

Conc 4.8573
RT 3.986 Area 3187494

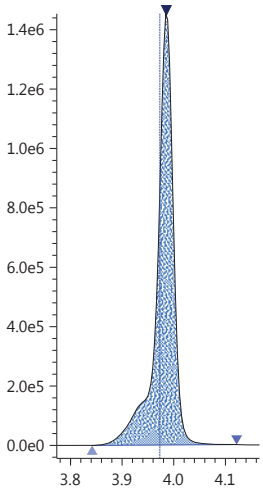
Q 267.90>223.00 (-) 1.45e6



PFPeA-13C_IS

Conc 5.0000
RT 3.986 Area 3187494

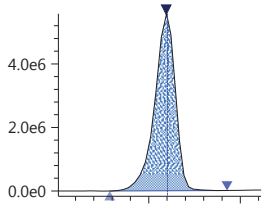
ISTD 267.90>223.00 (-) 1.45e6



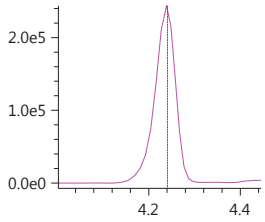
PFHxA

Conc 15.0773
RT 4.238 Area 17467019
R#1 4.37 (0.00)

Q 313.00>269.00 (-) 5.58e6



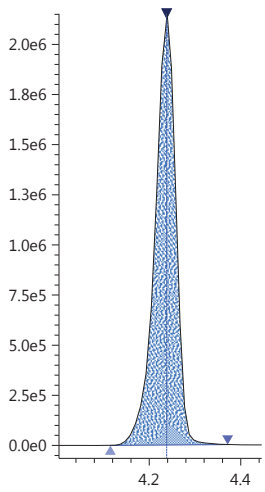
R1 313.00>119.10 (-) 2.44e5



PFHxA-13C

Conc 4.4928
RT 4.238 Area 6801494

Q 314.90>270.10 (-) 2.15e6



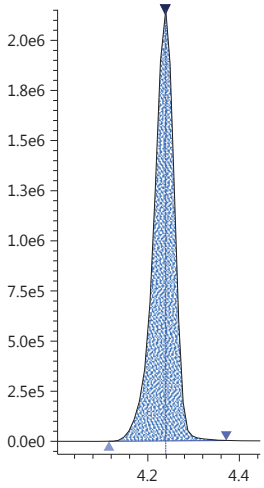
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PFHxA-13C_IS

Conc 5.0000
RT 4.238 Area 6801494

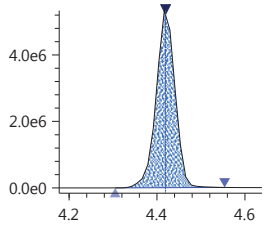
ISTD 314.90>270.10 (-) 2.15e6



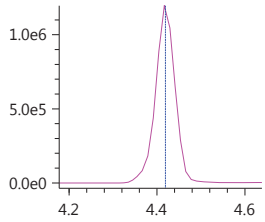
PFHpA

Conc 15.2425
RT 4.419 Area 15966483
R#1 22.54 (0.00)

Q 362.90>319.00 (-) 5.33e6



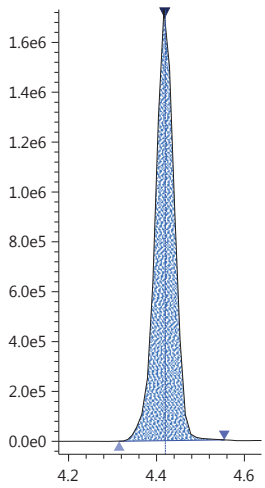
R1 362.90>169.00 (-) 1.20e6



PFHpA-13C

Conc 4.1143
RT 4.419 Area 5266230

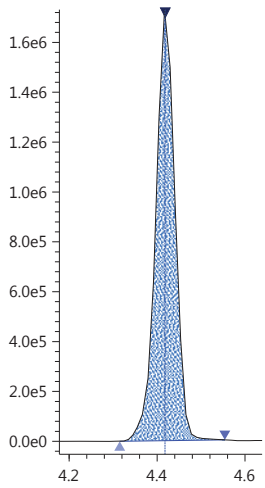
Q 366.90>322.10 (-) 1.73e6



PFHpA-13C_IS

Conc 5.0000
RT 4.419 Area 5266230

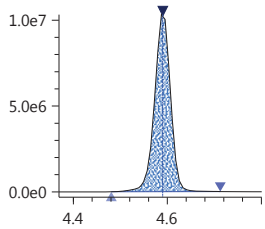
ISTD 366.90>322.10 (-) 1.73e6



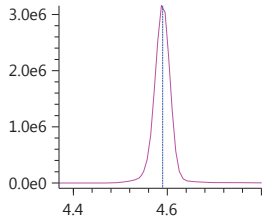
PFOA

Conc 15.2050
RT 4.590 Area 24503959
R#1 30.57 (0.00)

Q 413.00>369.00 (-) 1.03e7



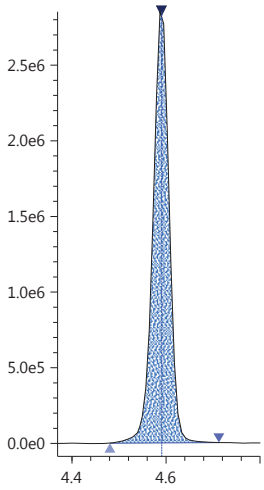
R1 413.00>169.10 (-) 3.16e6



PFOA-13C

Conc 4.5590
RT 4.590 Area 6884041

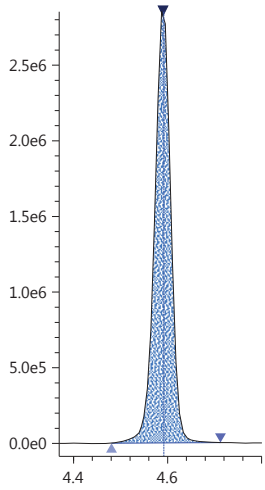
Q 416.80>372.05 (-) 2.85e6



PFOA-13C_IS

Conc 5.0000
RT 4.590 Area 6884041

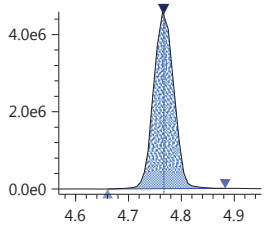
ISTD 416.80>372.05 (-) 2.85e6



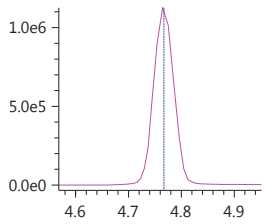
PFNA

Conc 14.7725
RT 4.766 Area 12266374
R#1 24.51 (0.00)

Q 463.00>418.90 (-) 4.59e6



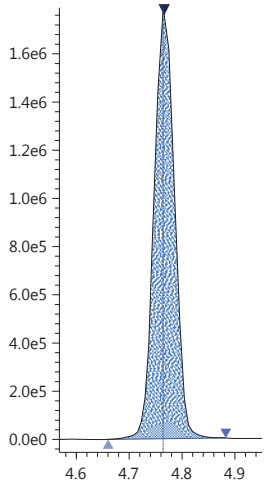
R1 463.00>219.00 (-) 1.13e6



PFNA-13C

Conc 4.1851
RT 4.766 Area 4801779

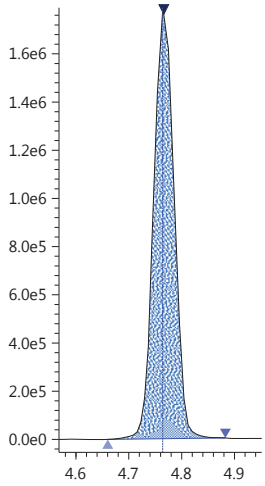
Q 467.80>423.00 (-) 1.79e6



PFNA-13C_IS

Conc 5.0000
RT 4.766 Area 4801779

ISTD 467.80>423.00 (-) 1.79e6

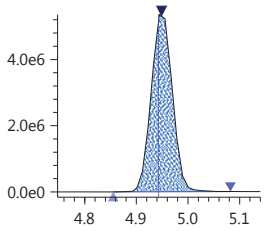


Insight Report

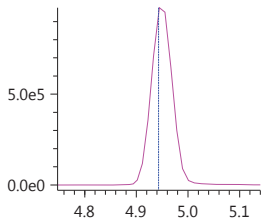
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PFDA

Conc 15.6261
RT 4.949 Area 15340249
R#1 18.20 (0.00)
Q 513.00>468.80 (-) 5.36e6

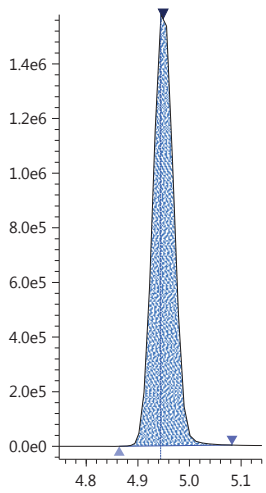


R1 513.00>219.10 (-) 9.76e5



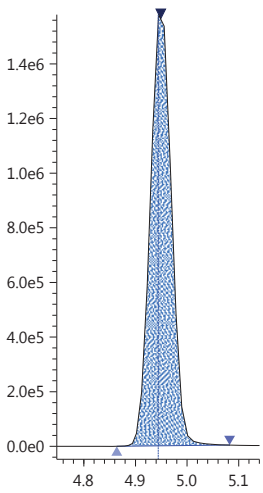
PFDA-13C

Conc 4.4940
RT 4.949 Area 4556849
Q 514.80>469.95 (-) 1.58e6



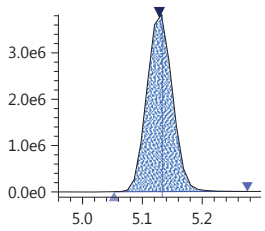
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Conc 5.0000
RT 4.949 Area 4556849
ISTD 514.80>469.95 (-) 1.58e6

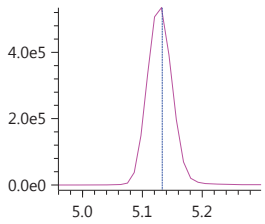


PFUnA

Conc 15.2642
RT 5.128 Area 11474902
R#1 13.95 (0.00)
Q 563.00>518.90 (-) 3.83e6

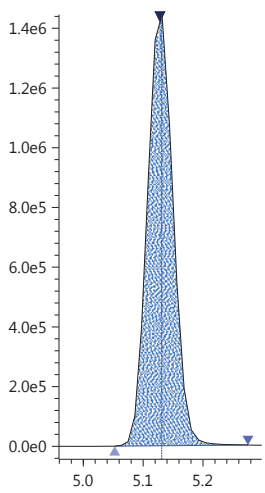


R1 563.00>219.00 (-) 5.35e5



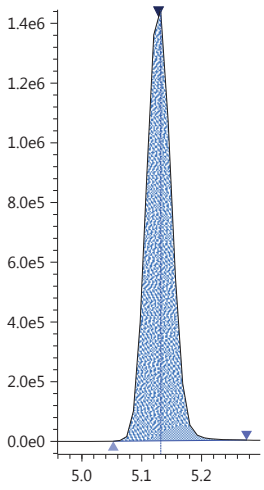
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Conc 4.8310
RT 5.128 Area 4337474
Q 564.80>519.95 (-) 1.45e6



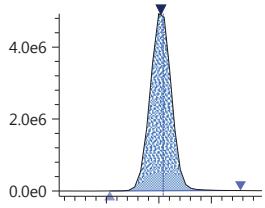
PFUnA-13C_IS

Conc 5.0000
RT 5.128 Area 4337474
ISTD 564.80>519.95 (-) 1.45e6

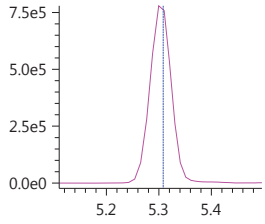


PFDoA

Conc 14.8045
RT 5.304 Area 14065340
R#1 15.85 (0.00)
Q 613.05>569.00 (-) 4.93e6

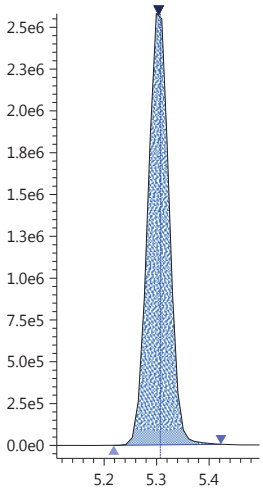


R1 613.05>169.00 (-) 7.79e5



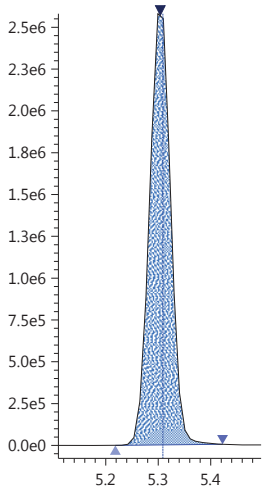
PFDoA-13C

Conc 4.9725
RT 5.304 Area 7331764
Q 614.80>569.95 (-) 2.58e6



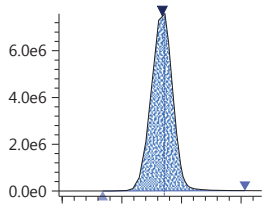
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Conc 5.0000
RT 5.304 Area 7331764
ISTD 614.80>569.95 (-) 2.58e6

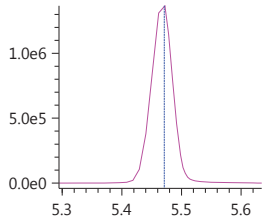


PFTrDA

Conc 14.8776
RT 5.468 Area 19304776
R#1 18.00 (0.00)
Q 663.00>618.90 (-) 7.58e6



R1 662.90>169.00 (-) 1.37e6



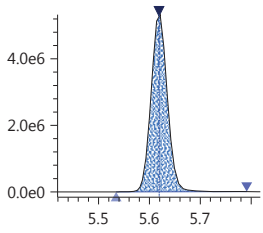
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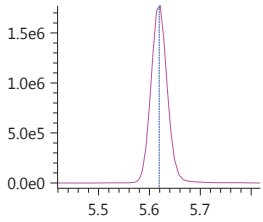
PFTeDA

Conc 14.5756
RT 5.619 Area 11898019
R#1 33.23 (0.00)

Q 713.40>669.00 (-) 5.33e6



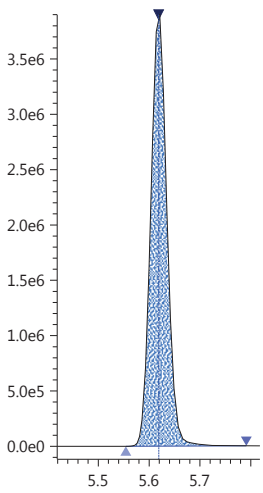
R1 713.40>169.10 (-) 1.77e6



PFTeDA-13C

Conc 4.5514
RT 5.619 Area 8653764

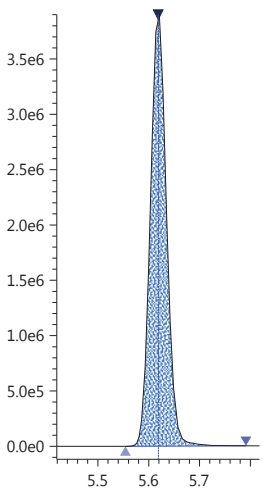
Q 714.70>669.90 (-) 3.90e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.619 Area 8653764

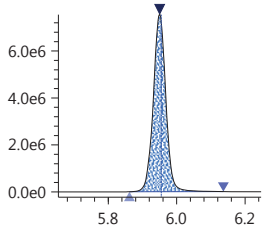
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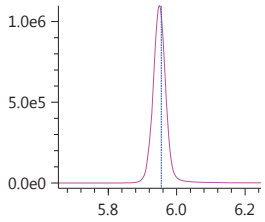
PFHxDA

Conc 15.0200
RT 5.950 Area 19279829
R#1 14.43 (0.00)

Q 813.00>769.05 (-) 7.55e6



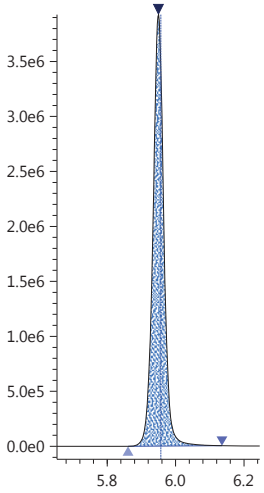
R1 813.00>218.95 (-) 1.10e6



13C-PFHxDA

Conc 4.9494
RT 5.950 Area 8676044

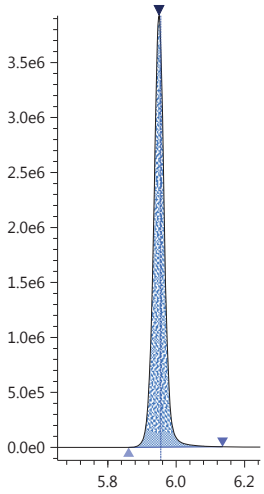
Q 815.00>770.05 (-) 3.93e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.950 Area 8676044

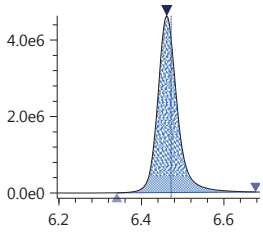
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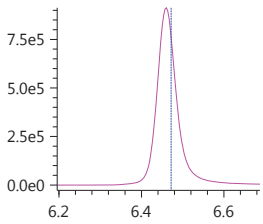
PFODA

Conc 15.0958
RT 6.461 Area 15299138
R#1 19.58 (0.00)

Q 913.00>868.85 (-) 4.64e6



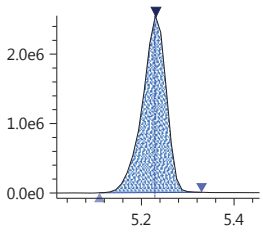
R1 913.00>169.00 (-) 9.13e5



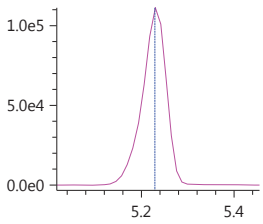
FOSA

Conc 13.8504
RT 5.231 Area 9146457
R#1 4.36 (0.00)

Q 498.20>78.00 (-) 2.55e6



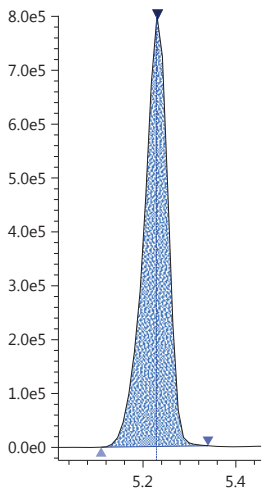
R1 498.20>64.10 (-) 1.11e5



FOSA-13C

Conc 5.1073
RT 5.231 Area 2913270

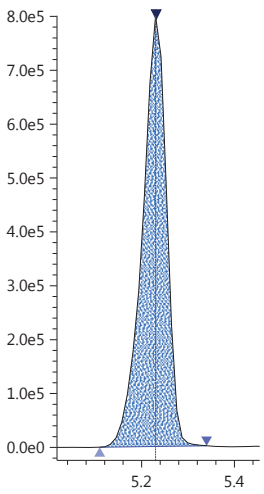
Q 506.00>78.05 (-) 8.01e5



FOSA-13C_IS

Conc 5.0000
RT 5.231 Area 2913270

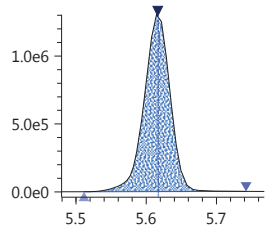
ISTD 506.00>78.05 (-) 8.01e5



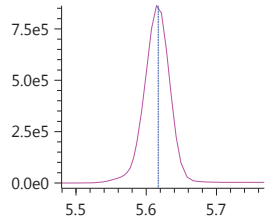
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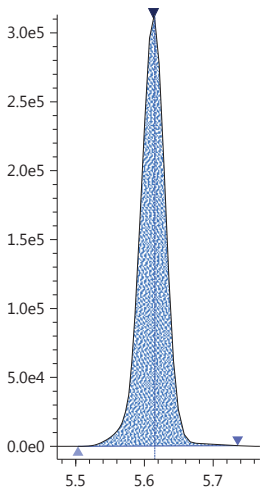
N-MeFOSA
Conc 14.1479
RT 5.616 Area 3347825
R#1 66.14 (0.00)
Q 512.00>169.10 (-) 1.31e6



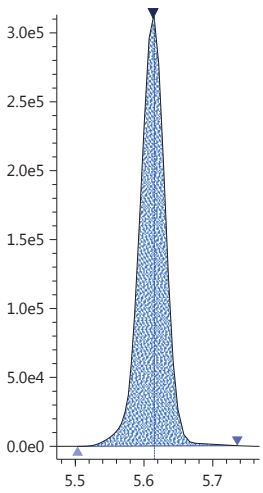
R1 512.00>219.00 (-) 8.63e5



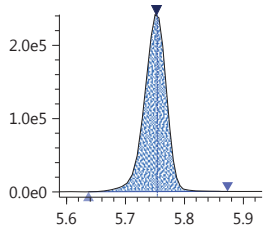
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Conc 4.8267
RT 5.613 Area 812339
Q 514.90>168.90 (-) 3.13e5



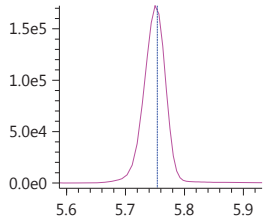
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.613 Area 812339
ISTD 514.90>168.90 (-) 3.13e5



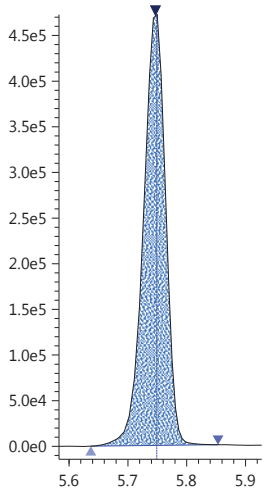
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Conc 14.2047
RT 5.752 Area 633419
R#1 71.50 (0.00)
Q 526.90>169.10 (-) 2.42e5



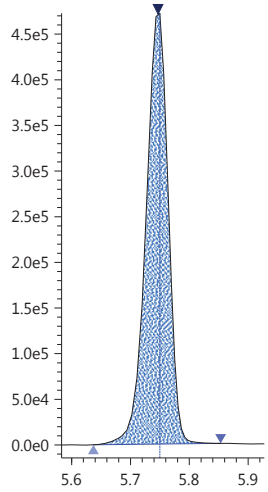
R1 526.90>219.00 (-) 1.72e5



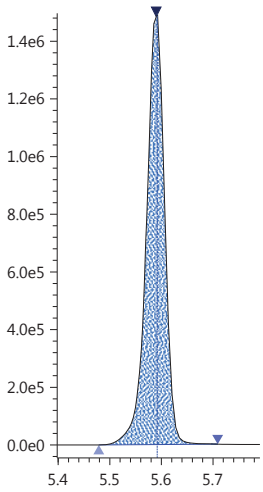
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Conc 5.1216
RT 5.747 Area 1242006
Q 530.90>169.15 (-) 4.73e5



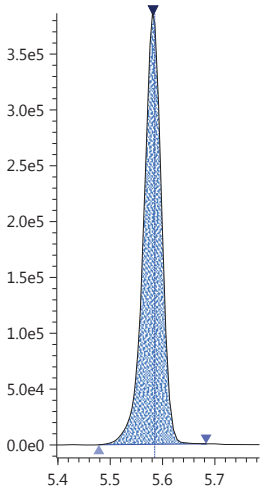
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.747 Area 1242006
ISTD 530.90>169.15 (-) 4.73e5



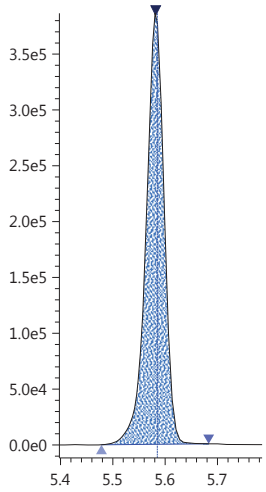
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Conc 13.2063
RT 5.590 Area 3663789
Q 616.00>59.00 (-) 1.50e6



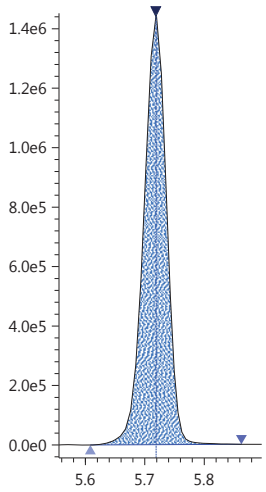
N-MeFOSE-d7
Conc 5.2549
RT 5.582 Area 928873
Q 622.70>59.10 (-) 3.87e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.582 Area 928873
ISTD 622.70>59.10 (-) 3.87e5



N-EtFOSE
Conc 13.4146
RT 5.718 Area 3854986
Q 630.00>58.90 (-) 1.45e6



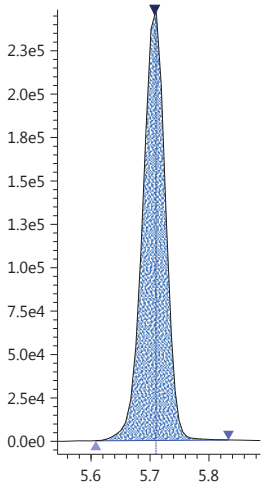
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N-EtFOSE-d9

Conc 5.2463
RT 5.708 Area 671054

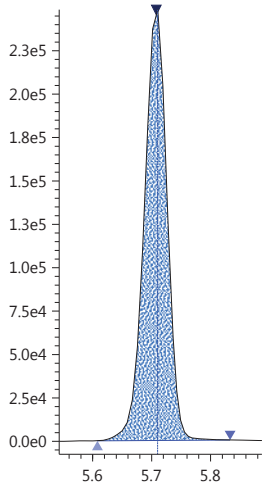
Q 638.70>59.10 (-) 2.49e5



N-EtFOSE-d9_IS

Conc 5.0000
RT 5.708 Area 671054

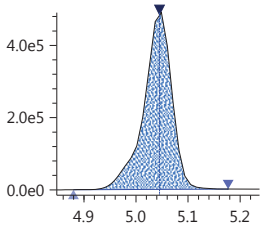
ISTD 638.70>59.10 (-) 2.49e5



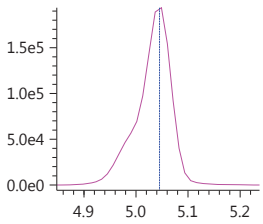
N-MeFOSAA

Conc 13.3506
RT 5.045 Area 1830279
R#1 39.59 (0.00)

Q 570.20>419.00 (-) 4.91e5



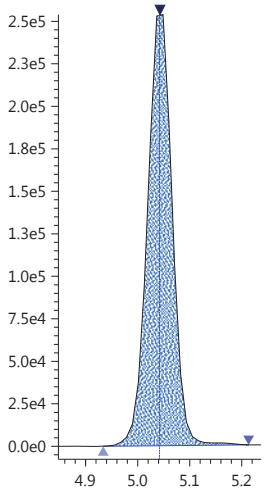
R1 570.20>512.00 (-) 1.94e5



N-MeFOSAA-d3

Conc 5.1109
RT 5.043 Area 840161

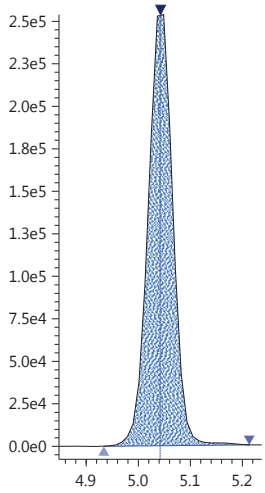
Q 572.80>419.05 (-) 2.54e5



N-MeFOSAA-d3_IS

Conc 5.0000
RT 5.043 Area 840161

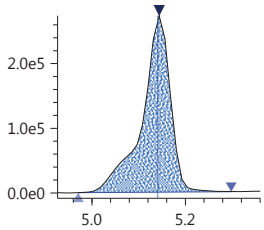
ISTD 572.80>419.05 (-) 2.54e5



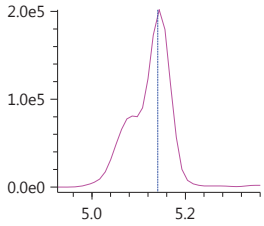
N-EtFOSAA

Conc 13.7199
RT 5.144 Area 1139774
R#1 73.75 (0.00)

Q 584.20>418.95 (-) 2.74e5



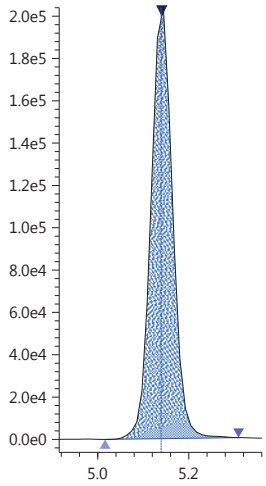
R1 584.20>526.10 (-) 2.02e5



N-EtFOSAA-d5

Conc 5.0250
RT 5.140 Area 672127

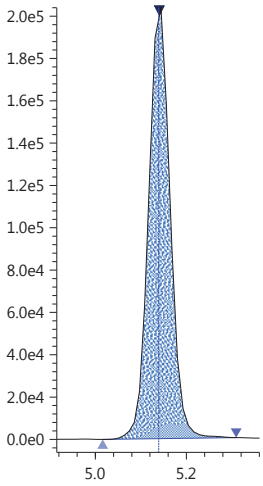
Q 588.80>419.00 (-) 2.04e5



N-EtFOSAA-d5_IS

Conc 5.0000
RT 5.140 Area 672127

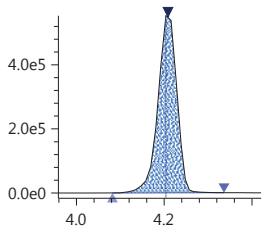
ISTD 588.80>419.00 (-) 2.04e5



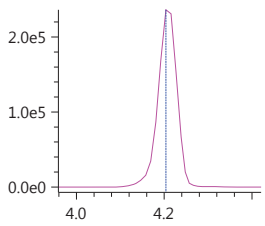
4_2-FTS_1

Conc 12.8292
RT 4.209 Area 1654986
R#1 42.71 (0.00)

Q 327.00>307.05 (-) 5.53e5



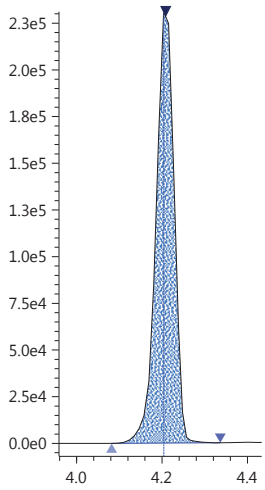
R1 327.00>81.10 (-) 2.36e5



4_2-FTS-13C

Conc 6.0954
RT 4.208 Area 686072

Q 328.80>309.05 (-) 2.31e5

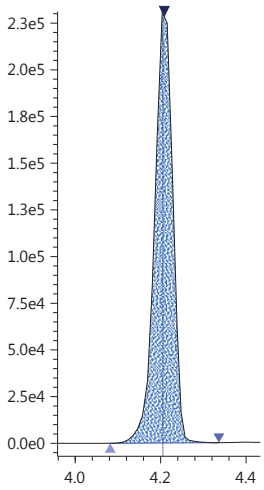


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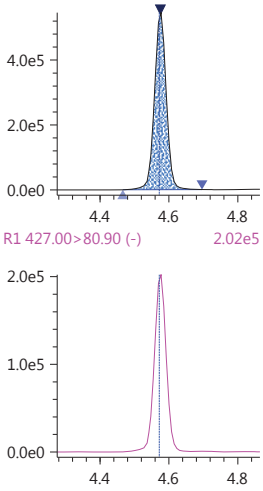
4_2-FTS-13C_IS
Conc 5.0000
RT 4.208 Area 686072

ISTD 328.80>309.05 (-) 2.31e5



6_2-FTS_1
Conc 13.5433
RT 4.575 Area 1300994
R#1 37.29 (0.00)

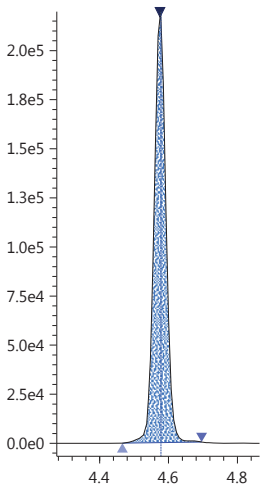
Q 427.00>407.00 (-) 5.46e5



R1 427.00>80.90 (-) 2.02e5

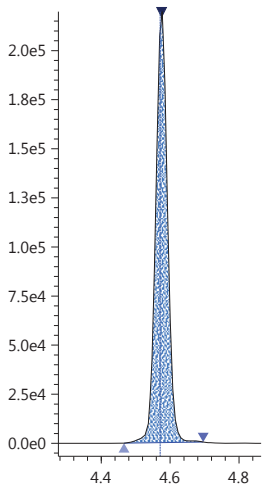
6_2-FTS-13C
Conc 4.3914
RT 4.575 Area 526836

Q 428.90>409.00 (-) 2.20e5



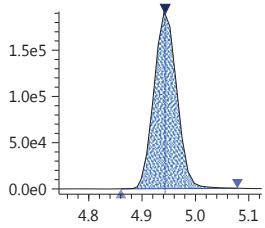
6_2-FTS-13C_IS
Conc 5.0000
RT 4.575 Area 526836

ISTD 428.90>409.00 (-) 2.20e5

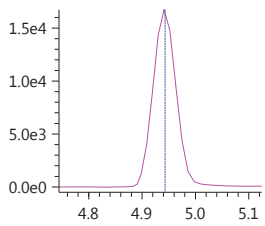


8_2-FTS_1
Conc 12.6913
RT 4.943 Area 573767
R#1 8.74 (0.00)

Q 527.10>506.90 (-) 1.92e5

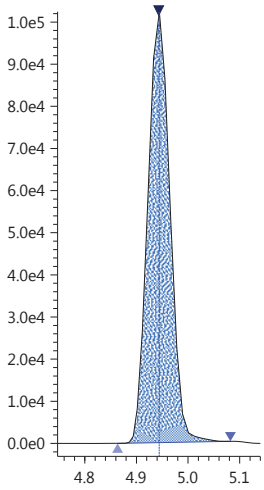


R1 527.20>487.00 (-) 1.67e4



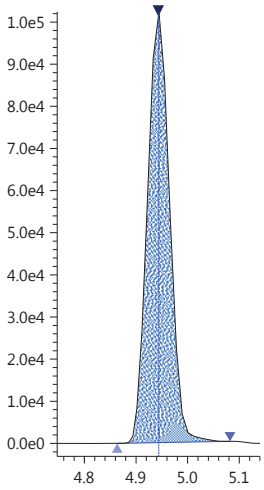
8_2-FTS-13C
Conc 4.1144
RT 4.943 Area 304539

Q 528.80>509.00 (-) 1.02e5



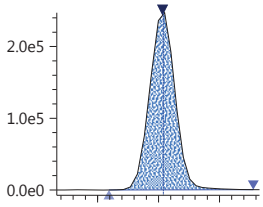
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Conc 5.0000
RT 4.943 Area 304539

ISTD 528.80>509.00 (-) 1.02e5

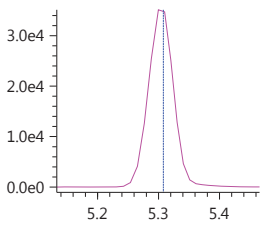


10_2-FtS_1
Conc 14.7011
RT 5.307 Area 721719
R#1 14.04 (0.00)

Q 627.00>606.95 (-) 2.47e5

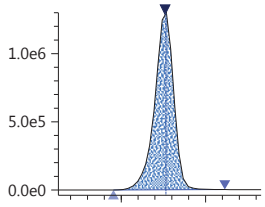


R1 627.00>81.25 (-) 3.51e4

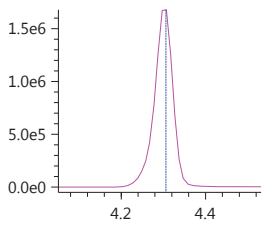


HPFO_DA
Conc 15.5435
RT 4.304 Area 4059951
R#1 133.73 (0.00)

Q 329.00>169.00 (-) 1.30e6

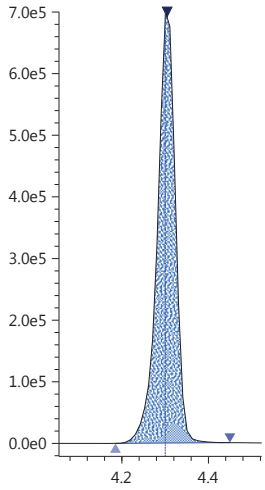


R1 329.00>285.10 (-) 1.68e6



HFPO_DA-13C
Conc 5.3711
RT 4.305 Area 2031366

Q 332.00>286.80 (-) 7.01e5



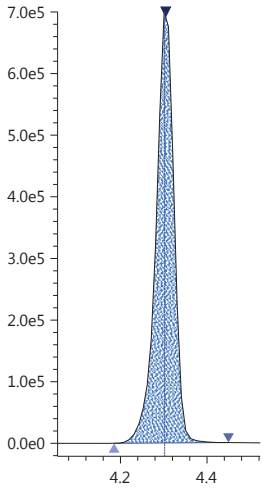
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.305 Area 2031366

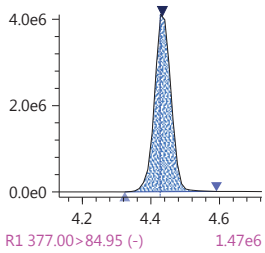
ISTD 332.00>286.80 (-) 7.01e5



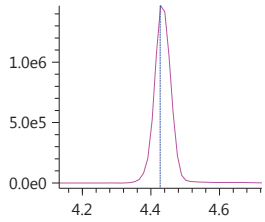
ADONA

Conc 12.3954
RT 4.433 Area 13872333
R#1 35.48 (0.00)

Q 377.00>251.00 (-) 4.11e6



R1 377.00>84.95 (-) 1.47e6



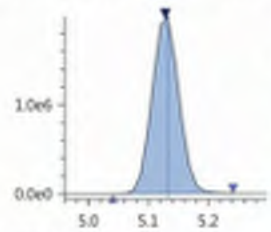
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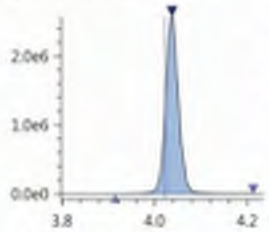
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Date acquired: 9/20/2019 4:44:34 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_014.lcd
Vial: 7 | Inj. Volume: 15.0000uL | Tray: 0

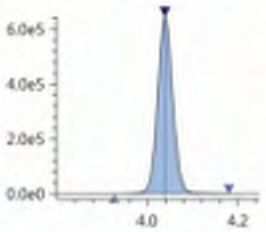
13C7-PFUnDA_IS
Conc 5.0000
RT 5.128 Area 6274842
ISTD 570.00>525.00 (-) 1.99e6



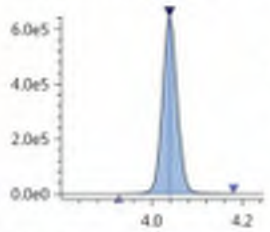
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Conc 12.4307
RT 4.037 Area 4947218
Q 299.00>80.00 (-) 2.57e6



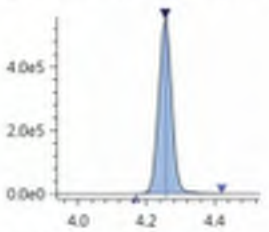
PFBS-13C
Conc 4.8764
RT 4.039 Area 1493615
Q 301.80>80.00 (-) 6.46e5



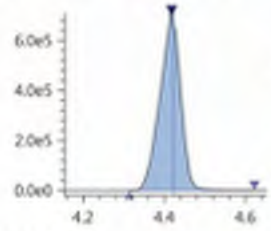
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RT 4.039 Area 1493615
ISTD 301.80>80.00 (-) 6.46e5



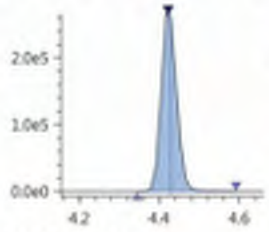
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Conc 11.9416
RT 4.255 Area 1508803
Q 349.00>99.00 (-) 5.60e5



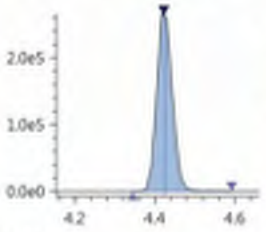
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Conc 12.2220
RT 4.418 Area 2525857
Q 399.00>80.00 (-) 7.09e5



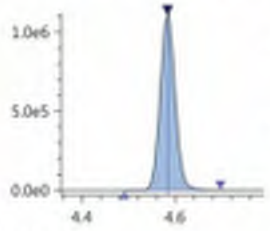
PFHxS-18O
Conc 4.1793
RT 4.422 Area 730573
Q 402.70>84.05 (-) 2.65e5



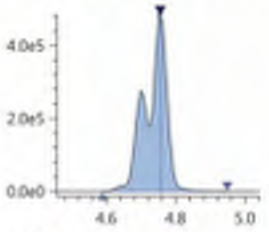
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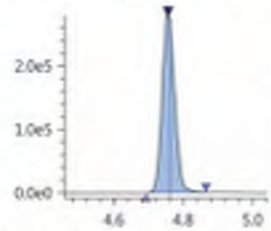
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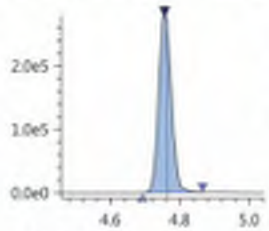
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Conc 13.2051
RT 4.755 Area 2018758
Q 499.00>80.00 (-) 4.86e5



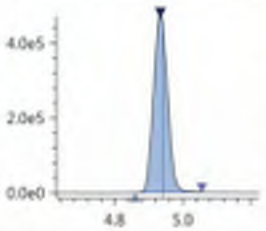
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Conc 4.2587
RT 4.756 Area 725747
Q 502.80>80.05 (-) 2.79e5



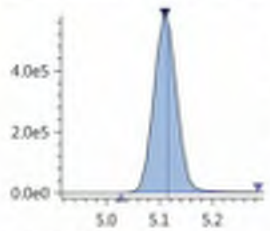
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RT 4.756 Area 725747
ISTD 502.80>80.05 (-) 2.79e5



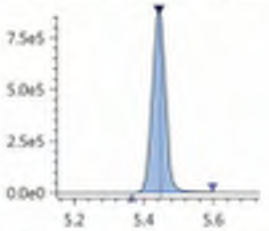
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Conc 13.5919
RT 4.934 Area 1348619
Q 549.00>99.00 (-) 4.74e5



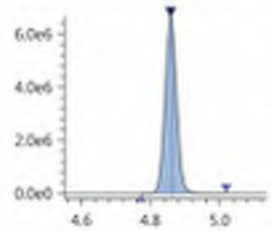
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Conc 12.9451
RT 5.111 Area 1767404
Q 599.00>79.90 (-) 5.81e5



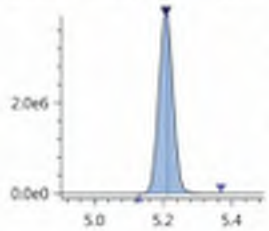
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Conc 15.1044
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Q 699.00>79.95 (-) 8.58e5



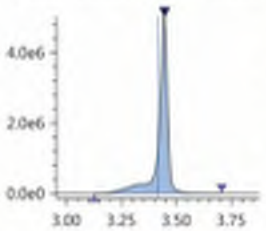
9Cl-PF3ONS
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RT 4.858 Area 15434231
Q 531.00>351.00 (-) 6.67e6



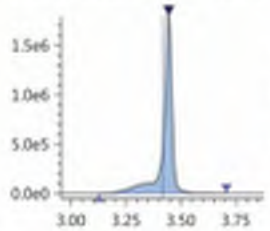
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Conc 18.1412
RT 5.208 Area 11687203
Q 631.00>451.05 (-) 3.91e6



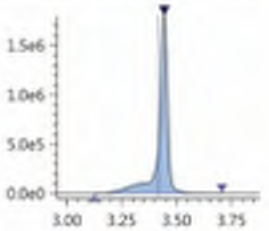
PFBA
Conc 11.3275
RT 3.446 Area 13872543
Q 213.00>169.10 (-) 5.03e6



PFBA-13C
Conc 4.9753
RT 3.444 Area 4984567
Q 216.90>172.15 (-) 1.80e6



PFBA-13C_IS
Conc 5.0000
RT 3.444 Area 4984567
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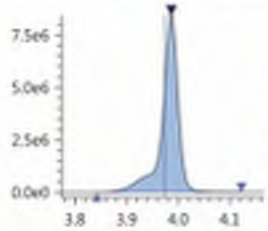


Manual Integration - Before

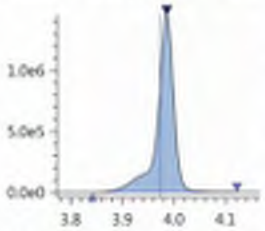
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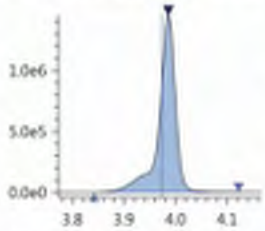
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RT 3.986 Area 18394098
Q 263.05>219.10 (-) 8.45e6



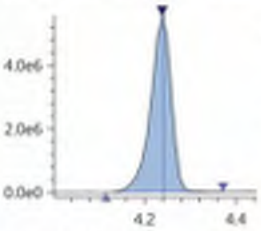
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RT 3.986 Area 3187494
Q 267.90>223.00 (-) 1.45e6



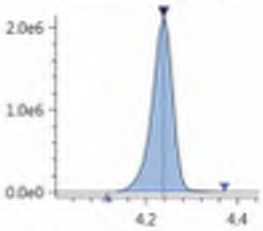
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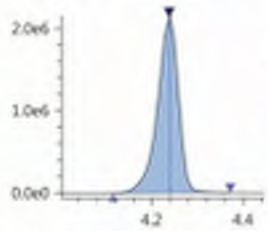
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Conc 13.9861
RT 4.238 Area 17467019
Q 313.00>269.00 (-) 5.58e6



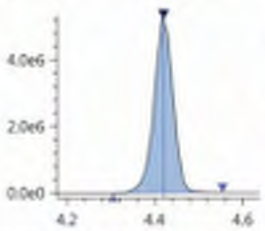
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Conc 4.4928
RT 4.238 Area 6801494
Q 314.90>270.10 (-) 2.15e6



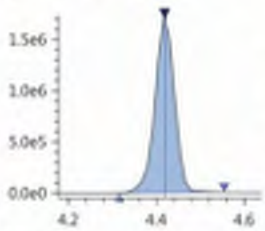
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RT 4.238 Area 6801494
ISTD 314.90>270.10 (-) 2.15e6



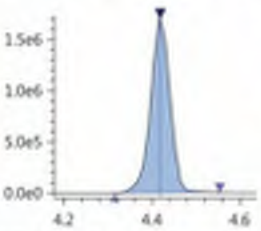
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Conc 14.1040
RT 4.419 Area 15966483
Q 362.90>319.00 (-) 5.33e6



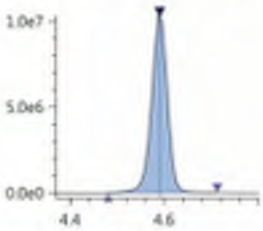
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Conc 4.1143
RT 4.419 Area 5266230
Q 366.90>322.10 (-) 1.73e6



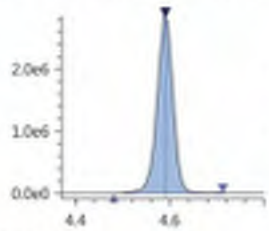
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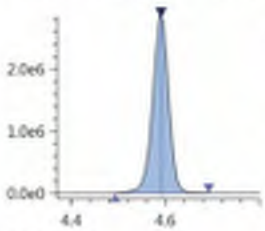
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Conc 14.6088
RT 4.590 Area 24503959
Q 413.00>369.00 (-) 1.03e7



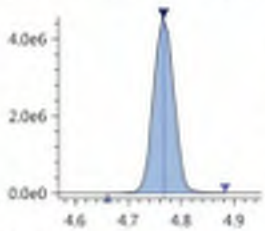
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Q 416.80>372.05 (-) 2.85e6



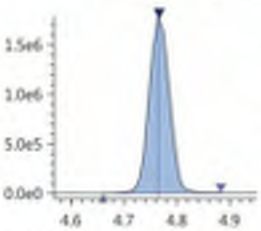
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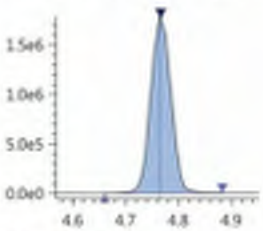
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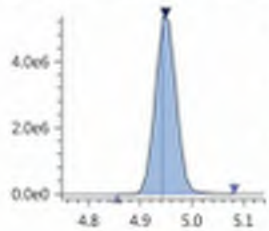
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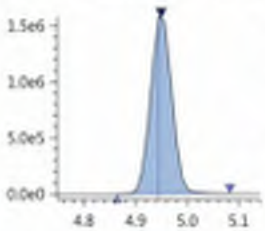
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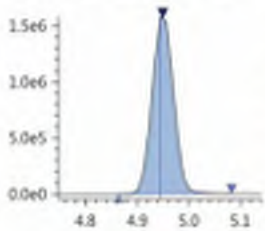
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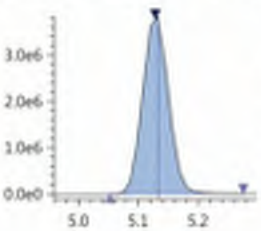
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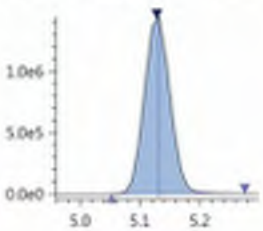
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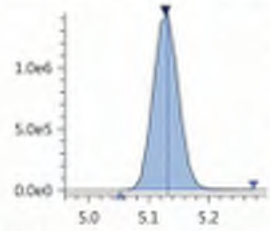
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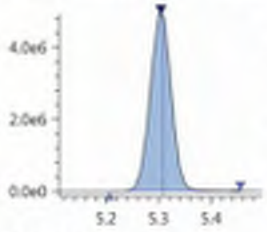
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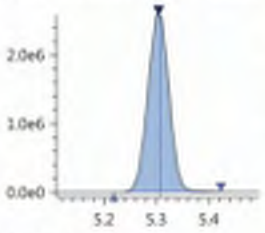
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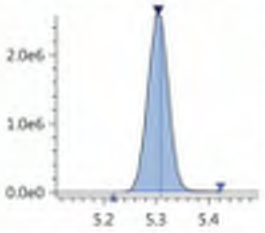
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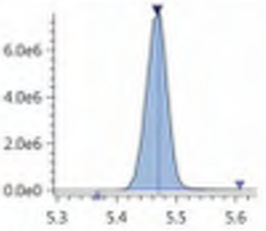
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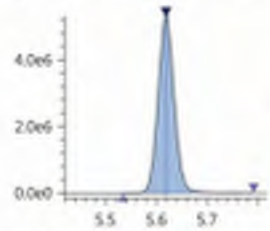
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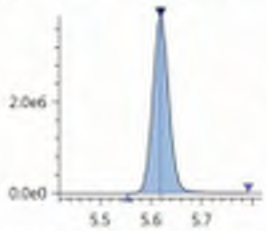
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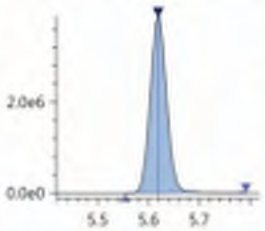
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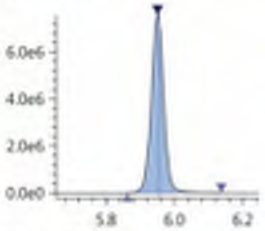
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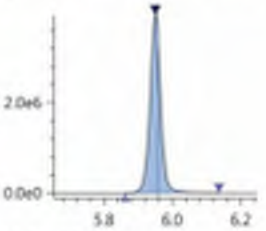
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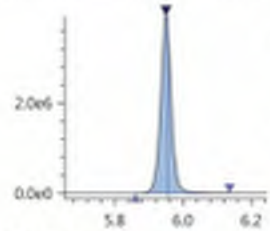
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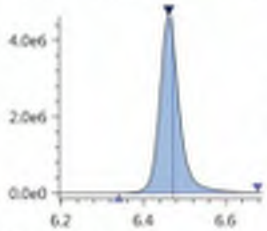
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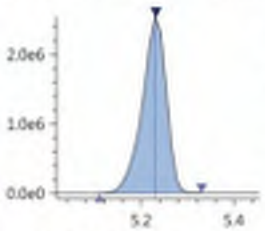
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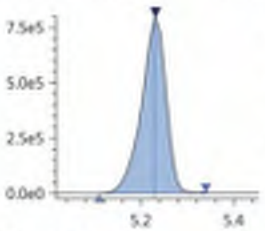
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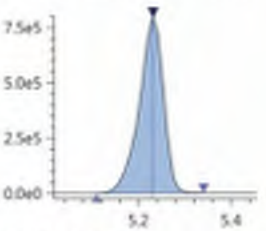
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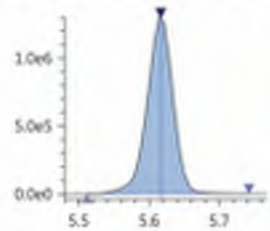
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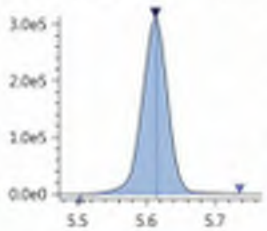
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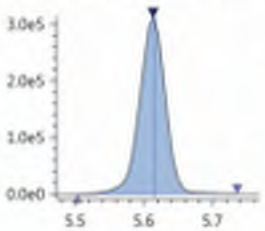
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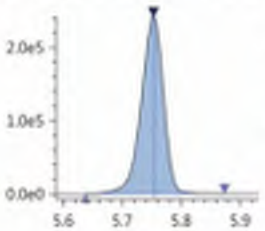
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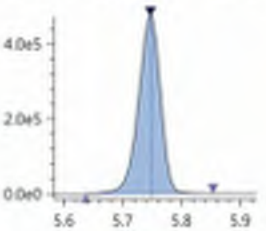
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ISTD 514.90>168.90 (-) 3.13e5



N-EtFOSA
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RT 5.752 Area 633419
Q 526.90>169.10 (-) 2.42e5



N-EtFOSA-d9
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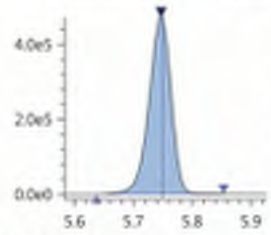


Manual Integration - Before

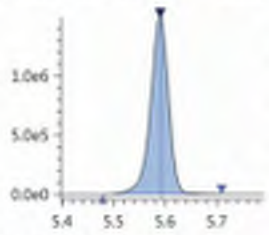
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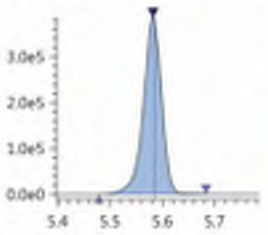
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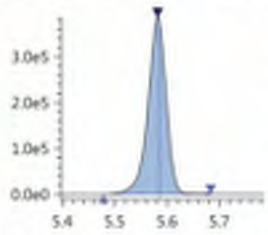
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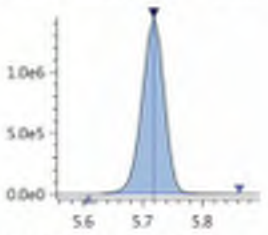
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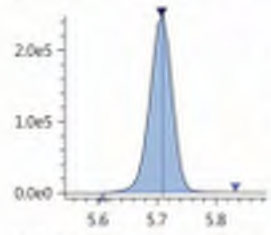
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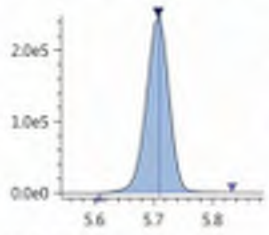
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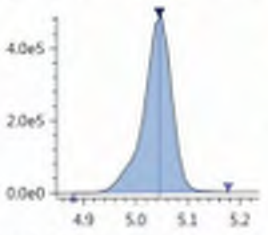
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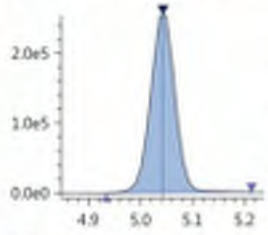
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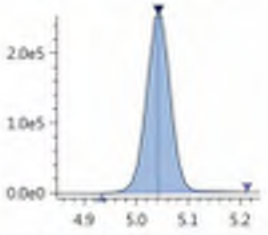
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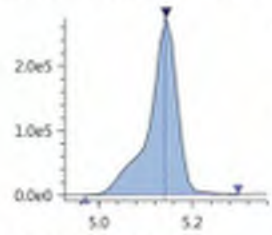
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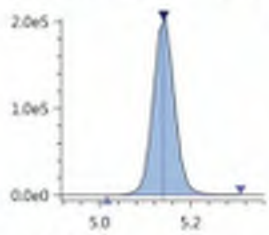
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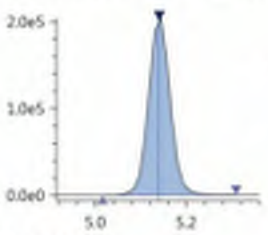
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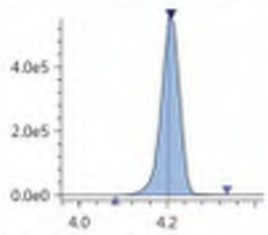
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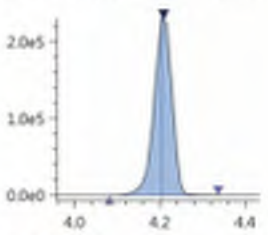
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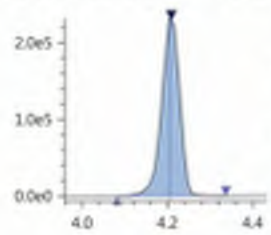
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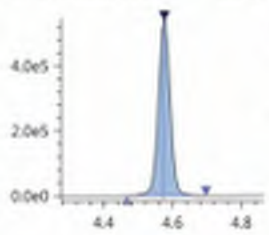
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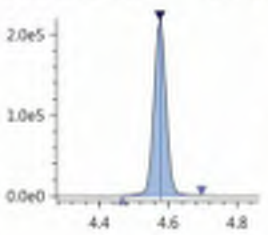
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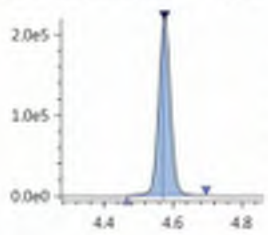
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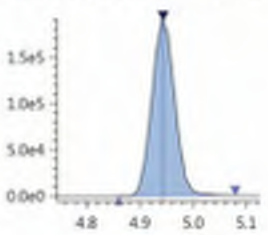
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Q 428.90>409.00 (-) 2.20e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.575 Area 526836
ISTD 428.90>409.00 (-) 2.20e5



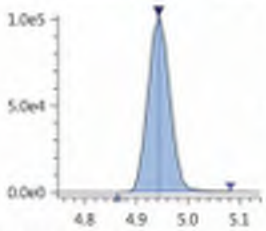
8_2-FTS_1
Conc 12.6127
RT 4.943 Area 573767
Q 527.10>506.90 (-) 1.92e5



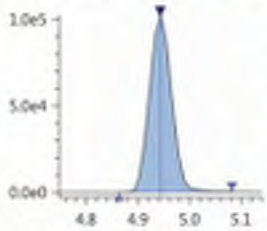
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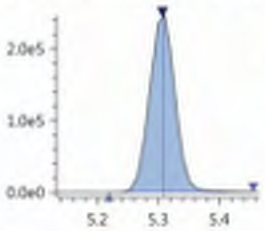
8_2-FTS-13C
Conc 4.1144
RT 4.943 Area 304539
Q 528.80>509.00 (-) 1.02e5



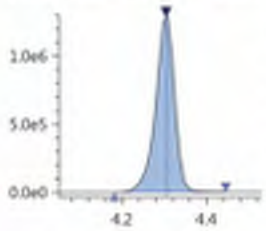
8_2-FTS-13C_IS
Conc 5.0000
RT 4.943 Area 304539
ISTD 528.80>509.00 (-) 1.02e5



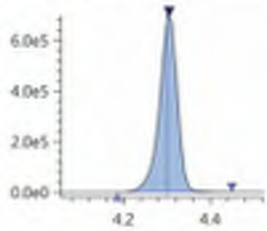
10_2-FtS_1
Conc 14.7813
RT 5.307 Area 721719
Q 627.00>606.95 (-) 2.47e5



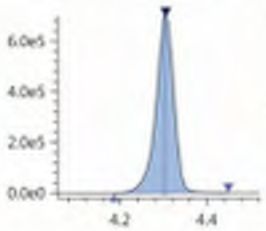
HPFO_DA
Conc 14.4202
RT 4.304 Area 4059951
Q 329.00>169.00 (-) 1.30e6



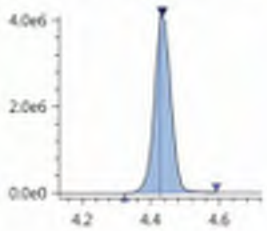
HFPO_DA-13C
Conc 5.3711
RT 4.305 Area 2031366
Q 332.00>286.80 (-) 7.01e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 2031366
ISTD 332.00>286.80 (-) 7.01e5



ADONA
Conc 12.4483
RT 4.433 Area 13872333
Q 377.00>251.00 (-) 4.11e6



Insight Report

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190920_015

Sample ID: IB
Date acquired: 9/20/2019 4:55:36 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_015.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.126	7603436	7603436	1	5.0000	ng/mL	----
PFBS_1	M	4.040	722	1615038	2	0.0017	ng/mL	----
PFBS-13C	Auto	4.036	1615038	7603436	1	4.3515	ng/mL	----
PFBS-13C_IS	Auto	4.036	1615038	1615038	2	5.0000	ng/mL	----
PFPeS	ND(W/B)	----	----	1615038	2	----	ng/mL	----
PFHxS_1	Auto	4.412	4693	576019	3	0.0292	ng/mL	----
PFHxS-18O	Auto	4.419	576019	7603436	1	2.7808	ng/mL	----
PFHxS-18O_IS	Auto	4.419	576019	576019	3	5.0000	ng/mL	----
PFHpS_1	M	4.584	210	576019	3	0.0014	ng/mL	----
PFOS_1	Auto	4.760	1402	720857	4	0.0093	ng/mL	----
PFOS-13C	Auto	4.754	720857	7603436	1	3.4909	ng/mL	----
PFOS-13C_IS	Auto	4.754	720857	720857	4	5.0000	ng/mL	----
PFNS	ND(W/B)	----	----	720857	4	----	ng/mL	----
PFDS_1	M	5.114	255	720857	4	0.0018	ng/mL	----
PFDOS	M	5.433	271	720857	4	0.0017	ng/mL	----
9Cl-PF3ONS	M	4.854	1211	720857	4	0.0011	ng/mL	----
11Cl-PF3OUdS	ND(W/B)	----	----	720857	4	----	ng/mL	----
PFBA	M	3.445	2913	4890387	5	0.0031	ng/mL	----
PFBA-13C	Auto	3.443	4890387	7603436	1	4.0283	ng/mL	----
PFBA-13C_IS	Auto	3.443	4890387	4890387	5	5.0000	ng/mL	----
PFPeA	M	3.983	139565	3296672	6	0.0106	ng/mL	----
PFPeA-13C	Auto	3.983	3296672	7603436	1	4.1458	ng/mL	----
PFPeA-13C_IS	Auto	3.983	3296672	3296672	6	5.0000	ng/mL	----
PFHxA	Auto	4.218	22041	7147336	7	0.0025	ng/mL	----
PFHxA-13C	Auto	4.234	7147336	7603436	1	3.8962	ng/mL	----
PFHxA-13C_IS	Auto	4.234	7147336	7147336	7	5.0000	ng/mL	----
PFHpA	Auto	4.402	13531	5108693	8	-0.0031	ng/mL	----
PFHpA-13C	Auto	4.412	5108693	7603436	1	3.2938	ng/mL	----
PFHpA-13C_IS	Auto	4.412	5108693	5108693	8	5.0000	ng/mL	----
PFOA	M	4.584	40446	7387010	9	0.0134	ng/mL	----
PFOA-13C	Auto	4.587	7387010	7603436	1	4.0373	ng/mL	----
PFOA-13C_IS	Auto	4.587	7387010	7387010	9	5.0000	ng/mL	----
PFNA	Auto	4.744	10247	5378283	10	-0.0066	ng/mL	----
PFNA-13C	Auto	4.763	5378283	7603436	1	3.8685	ng/mL	----
PFNA-13C_IS	Auto	4.763	5378283	5378283	10	5.0000	ng/mL	----
PFDA	M	4.938	14288	4706429	11	0.0141	ng/mL	----
PFDA-13C	Auto	4.946	4706429	7603436	1	3.8305	ng/mL	----
PFDA-13C_IS	Auto	4.946	4706429	4706429	11	5.0000	ng/mL	----
PFUnA	M	5.125	24036	6237303	12	-0.0002	ng/mL	----
PFUnA-13C	Auto	5.126	6237303	7603436	1	5.7331	ng/mL	----
PFUnA-13C_IS	Auto	5.126	6237303	6237303	12	5.0000	ng/mL	----
PFDoA	M	5.313	8960	7146815	13	0.0002	ng/mL	----
PFDoA-13C	Auto	5.302	7146815	7603436	1	4.0001	ng/mL	----
PFDoA-13C_IS	Auto	5.302	7146815	7146815	13	5.0000	ng/mL	----
PFTrDA	M	5.463	14685	9128191	14	-0.0011	ng/mL	----
PFTeDA	M	5.615	126799	9128191	14	0.0055	ng/mL	----
PFTeDA-13C	Auto	5.615	9128191	7603436	1	3.9620	ng/mL	----
PFTeDA-13C_IS	Auto	5.615	9128191	9128191	14	5.0000	ng/mL	----
PFHxDA	Auto	5.949	89589	9160506	15	0.0018	ng/mL	----
13C-PFHxDA	Auto	5.949	9160506	7603436	1	4.3126	ng/mL	----
13C-PFHxDA_IS	Auto	5.949	9160506	9160506	15	5.0000	ng/mL	----
PFODA	M	6.466	12059	9160506	15	0.0113	ng/mL	----
FOSA	M	5.229	6673	2835526	16	0.0104	ng/mL	----
FOSA-13C	Auto	5.228	2835526	7603436	1	4.1024	ng/mL	----
FOSA-13C_IS	Auto	5.228	2835526	2835526	16	5.0000	ng/mL	----
N-MeFOSA	M	5.612	2235	825432	17	0.0093	ng/mL	----
N-MeFOSA-d3	Auto	5.610	825432	7603436	1	4.0475	ng/mL	----
N-MeFOSA-d3_IS	Auto	5.610	825432	825432	17	5.0000	ng/mL	----
N-EtFOSA	M	5.750	2718	1166869	18	0.0649	ng/mL	----
N-EtFOSA-d9	Auto	5.745	1166869	7603436	1	3.9710	ng/mL	----
N-EtFOSA-d9_IS	Auto	5.745	1166869	1166869	18	5.0000	ng/mL	----
N-MeFOSE	M	5.580	1309	934026	19	0.0047	ng/mL	----
N-MeFOSE-d7	Auto	5.580	934026	7603436	1	4.3608	ng/mL	----
N-MeFOSE-d7_IS	Auto	5.580	934026	934026	19	5.0000	ng/mL	----
N-EtFOSE	M	5.717	4138	673074	20	0.0144	ng/mL	----
N-EtFOSE-d9	Auto	5.705	673074	7603436	1	4.3426	ng/mL	----
N-EtFOSE-d9_IS	Auto	5.705	673074	673074	20	5.0000	ng/mL	----
N-MeFOSAA	Auto	5.040	9521	897541	21	0.0650	ng/mL	----

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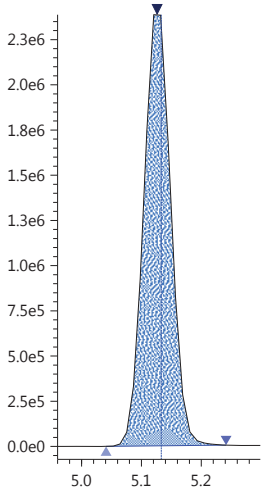
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.042	897541	7603436	1	4.5059	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.042	897541	897541	21	5.0000	ng/mL	----
N-EtFOSAA	M	5.152	2843	809042	22	0.0284	ng/mL	----
N-EtFOSAA-d5	Auto	5.138	809042	7603436	1	4.9917	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.138	809042	809042	22	5.0000	ng/mL	----
4_2-FTS_1	ND(W/B)	----	----	501043	23	----	ng/mL	----
4_2-FTS-13C	Auto	4.208	501043	7603436	1	3.6737	ng/mL	----
4_2-FTS-13C_IS	Auto	4.208	501043	501043	23	5.0000	ng/mL	----
6_2-FTS_1	M	4.564	414	675193	24	0.0034	ng/mL	----
6_2-FTS-13C	Auto	4.574	675193	7603436	1	4.6446	ng/mL	----
6_2-FTS-13C_IS	Auto	4.574	675193	675193	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.937	223	441877	25	0.0034	ng/mL	----
8_2-FTS-13C	Auto	4.940	441877	7603436	1	4.9267	ng/mL	----
8_2-FTS-13C_IS	Auto	4.940	441877	441877	25	5.0000	ng/mL	----
10_2-FtS_1	ND(W/B)	----	----	441877	25	----	ng/mL	----
HPFO_DA	M	4.301	1076	1844489	26	-0.0612	ng/mL	----
HFPO_DA-13C	Auto	4.303	1844489	7603436	1	4.0248	ng/mL	----
HFPO_DA-13C_IS	Auto	4.303	1844489	1844489	26	5.0000	ng/mL	----
ADONA	Auto	4.446	3009	1844489	26	0.0030	ng/mL	----

13C7-PFUnDA_IS

Conc 5.0000
RT 5.126 Area 7603436

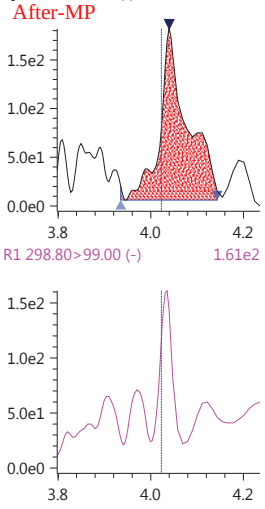
ISTD 570.00>525.00 (-) 2.39e6



PFBS_1

Conc 0.0017
RT 4.040 Area 722
R#1 59.79 (0.00)

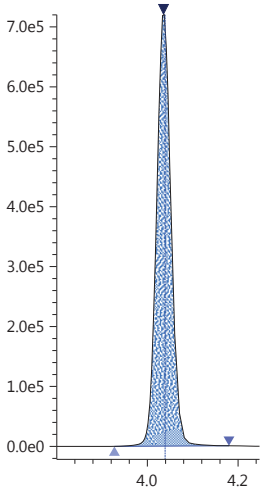
Q 299.00>80.00 (-) 1.82e2



PFBS-13C

Conc 4.3515
RT 4.036 Area 1615038

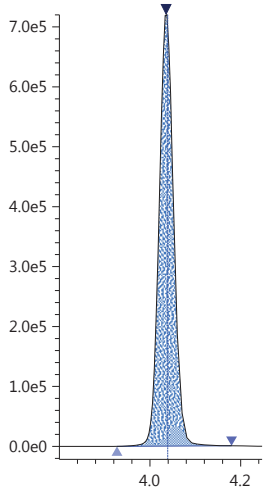
Q 301.80>80.00 (-) 7.20e5



PFBS-13C_IS

Conc 5.0000
RT 4.036 Area 1615038

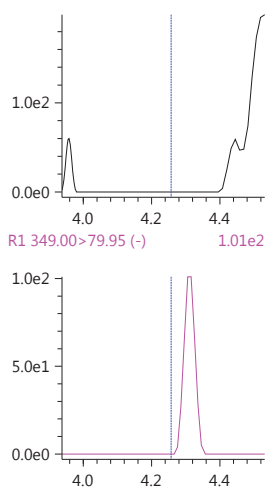
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PFPeS

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 349.00>99.00 (-) 1.99e2



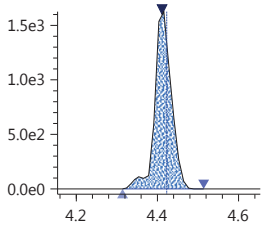
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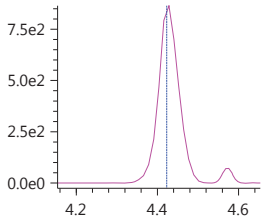
PFHxS_1

Conc 0.0292
RT 4.412 Area 4693
R#1 48.10 (0.00)

Q 399.00>80.00 (-) 1.63e3



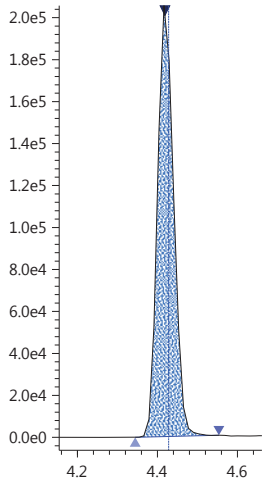
R1 399.00>99.00 (-) 8.65e2



PFHxS-18O

Conc 2.7808
RT 4.419 Area 576019

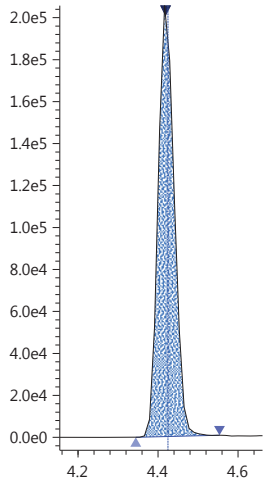
Q 402.70>84.05 (-) 2.06e5



PFHxS-18O_IS

Conc 5.0000
RT 4.419 Area 576019

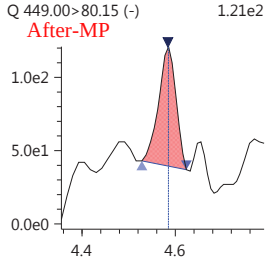
ISTD 402.70>84.05 (-) 2.06e5



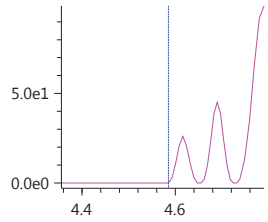
PFHpS_1

Conc 0.0014
RT 4.584 Area 210
R#1 0.00 (0.00)

Q 449.00>80.15 (-) 1.21e2



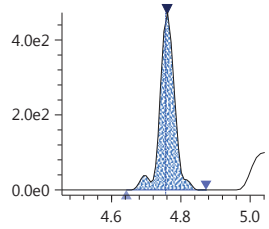
R1 449.00>99.20 (-) 9.90e1



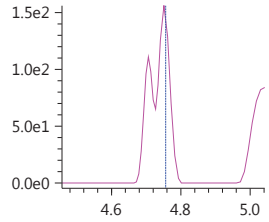
PFOS_1

Conc 0.0093
RT 4.760 Area 1402
R#1 27.47 (0.00)

Q 499.00>80.00 (-) 4.73e2



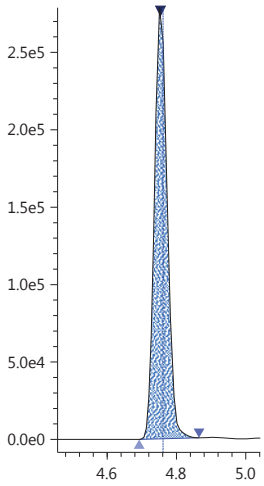
R1 499.00>99.00 (-) 1.56e2



PFOS-13C

Conc 3.4909
RT 4.754 Area 720857

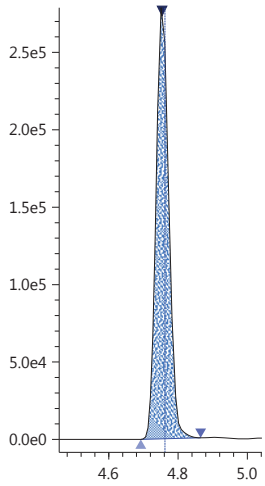
Q 502.80>80.05 (-) 2.79e5



PFOS-13C_IS

Conc 5.0000
RT 4.754 Area 720857

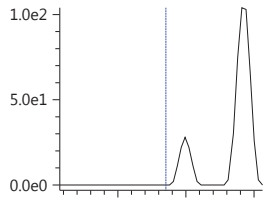
ISTD 502.80>80.05 (-) 2.79e5



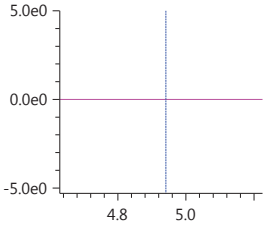
PFNS

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 549.00>99.00 (-) 1.04e2



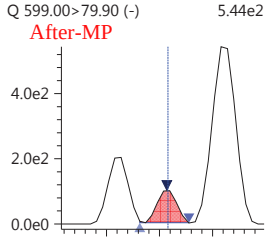
R1 549.00>79.95 (-) 0.00e0



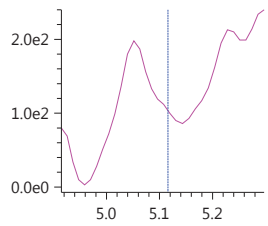
PFDS_1

Conc 0.0018
RT 5.114 Area 255
R#1 0.00 (0.00)

Q 599.00>79.90 (-) 5.44e2



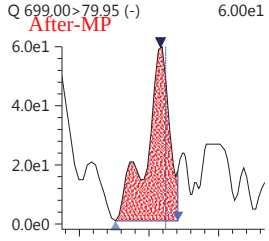
R1 599.00>99.10 (-) 2.40e2



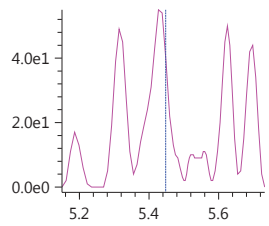
PFDOS

Conc 0.0017
RT 5.433 Area 271
R#1 71.11 (0.00)

Q 699.00>79.95 (-) 6.00e1



R1 699.00>99.05 (-) 5.50e1

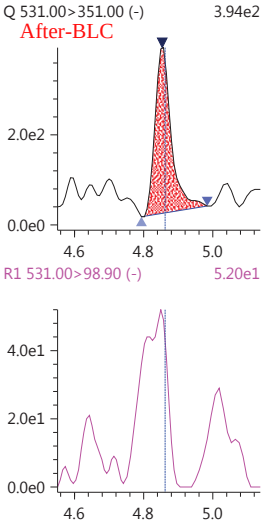


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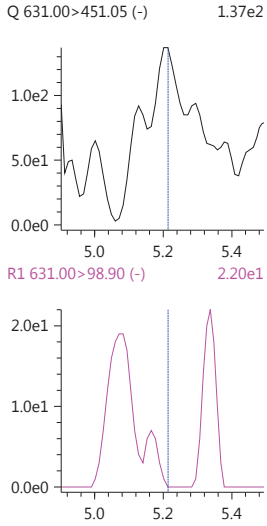
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Conc 0.0011
RT 4.854 Area 1211
R#1 5.69 (0.00)



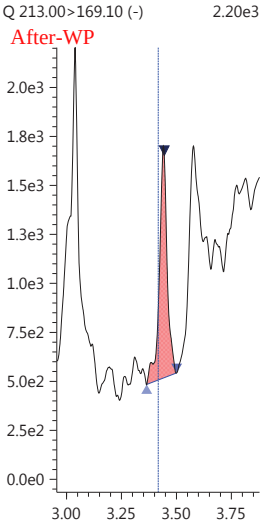
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Conc ----
RT ---- Area ----
R#1 ---- (0.00)



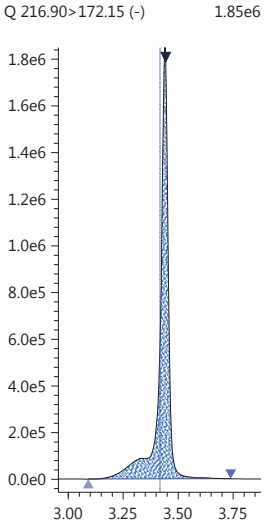
PFBA

Conc 0.0031
RT 3.445 Area 2913



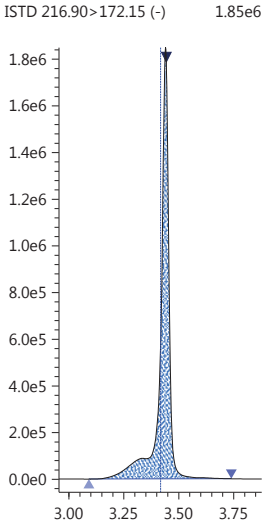
PFBA-13C

Conc 4.0283
RT 3.443 Area 4890387



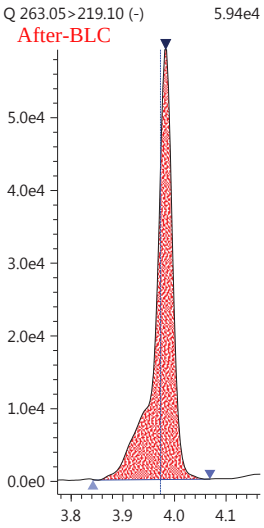
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Conc 5.0000
RT 3.443 Area 4890387



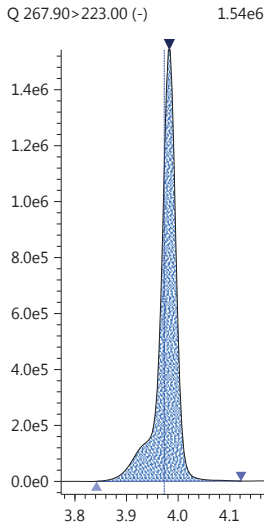
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Conc 0.0106
RT 3.983 Area 139565



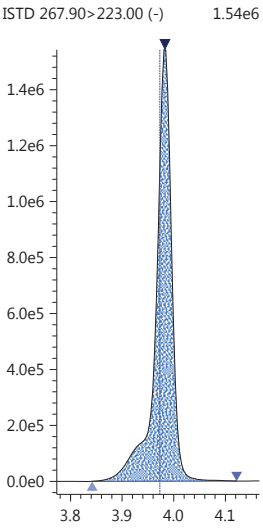
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Conc 4.1458
RT 3.983 Area 3296672



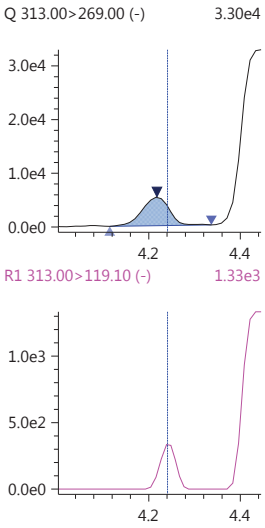
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RT 3.983 Area 3296672



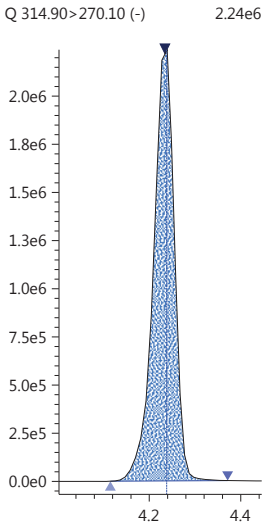
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Conc 0.0025
RT 4.218 Area 22041
R#1 1.96 (0.00)



PFHxA-13C

Conc 3.8962
RT 4.234 Area 7147336

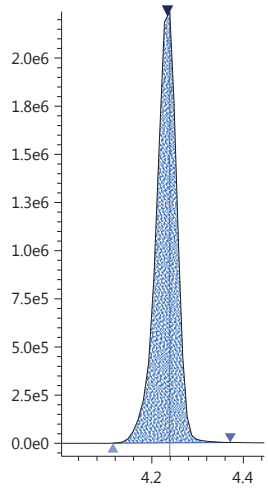


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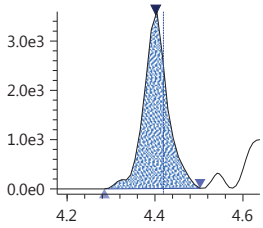
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RT 4.234 Area 7147336

ISTD 314.90>270.10 (-) 2.24e6

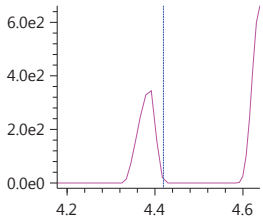


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Conc -0.0031
RT 4.402 Area 13531
R#1 5.36 (0.00)

Q 362.90>319.00 (-) 3.60e3

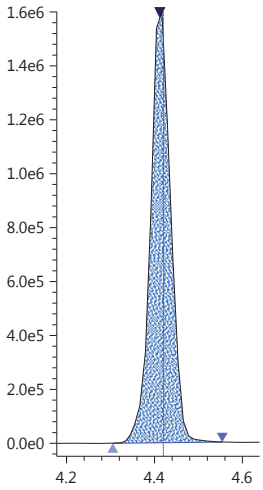


R1 362.90>169.00 (-) 6.62e2



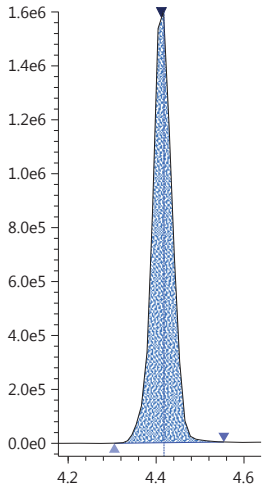
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Conc 3.2938
RT 4.412 Area 5108693

Q 366.90>322.10 (-) 1.60e6



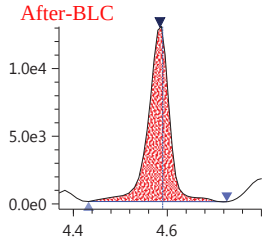
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Conc 5.0000
RT 4.412 Area 5108693

ISTD 366.90>322.10 (-) 1.60e6

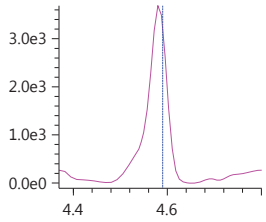


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Conc 0.0134
RT 4.584 Area 40446
R#1 26.18 (0.00)

Q 413.00>369.00 (-) 1.31e4

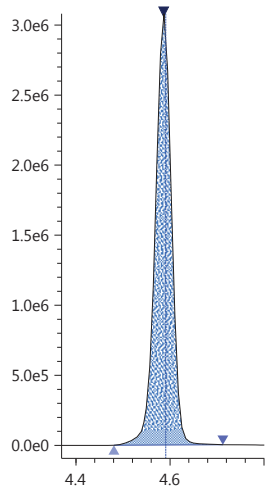


R1 413.00>169.10 (-) 3.69e3



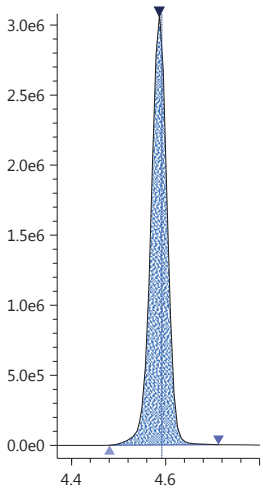
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Conc 4.0373
RT 4.587 Area 7387010

Q 416.80>372.05 (-) 3.08e6



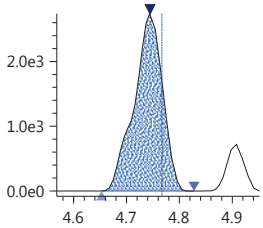
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RT 4.587 Area 7387010

ISTD 416.80>372.05 (-) 3.08e6

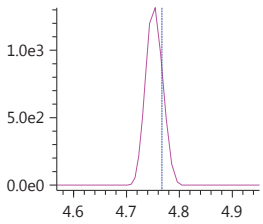


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Conc -0.0066
RT 4.744 Area 10247
R#1 46.69 (0.00)

Q 463.00>418.90 (-) 2.74e3

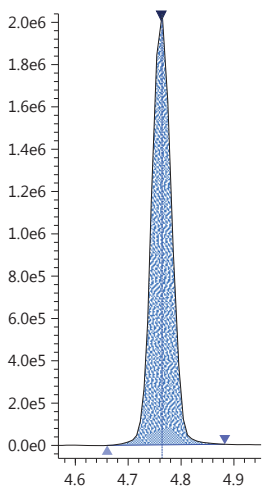


R1 463.00>219.00 (-) 1.32e3



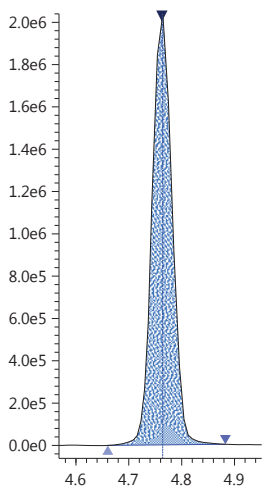
PFNA-13C
Conc 3.8685
RT 4.763 Area 5378283

Q 467.80>423.00 (-) 2.04e6



PFNA-13C_IS
Conc 5.0000
RT 4.763 Area 5378283

ISTD 467.80>423.00 (-) 2.04e6



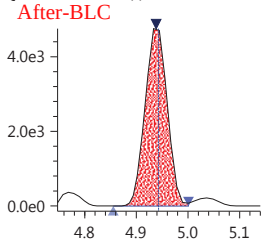
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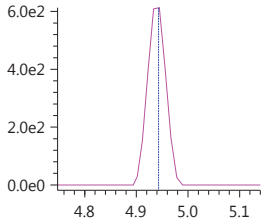
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Conc 0.0141
RT 4.938 Area 14288
R#1 12.91 (0.00)

Q 513.00>468.80 (-) 4.75e3



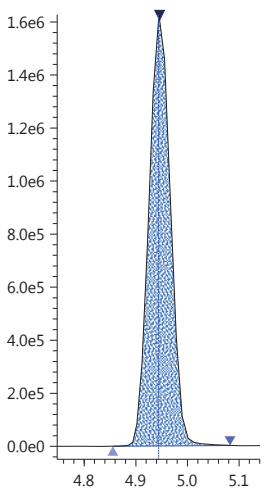
R1 513.00>219.10 (-) 6.13e2



PFDA-13C

Conc 3.8305
RT 4.946 Area 4706429

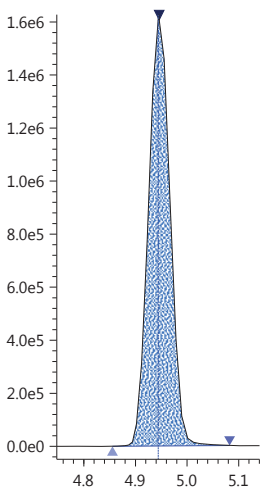
Q 514.80>469.95 (-) 1.63e6



PFDA-13C_IS

Conc 5.0000
RT 4.946 Area 4706429

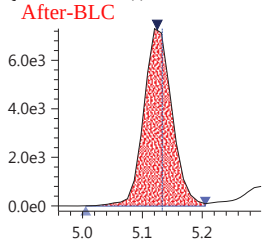
ISTD 514.80>469.95 (-) 1.63e6



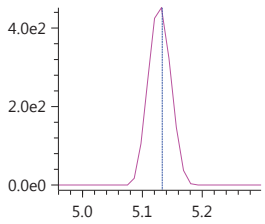
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Conc -0.0002
RT 5.125 Area 24036
R#1 6.40 (0.00)

Q 563.00>518.90 (-) 7.30e3



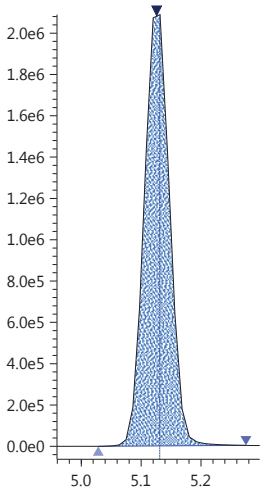
R1 563.00>219.00 (-) 4.52e2



PFUnA-13C

Conc 5.7331
RT 5.126 Area 6237303

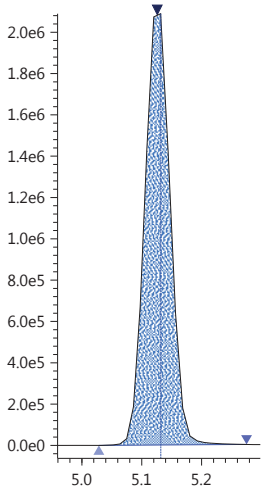
Q 564.80>519.95 (-) 2.09e6



PFUnA-13C_IS

Conc 5.0000
RT 5.126 Area 6237303

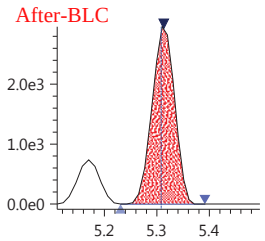
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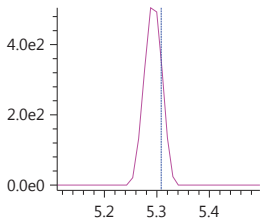
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Conc 0.0002
RT 5.313 Area 8960
R#1 11.85 (0.00)

Q 613.05>569.00 (-) 2.96e3



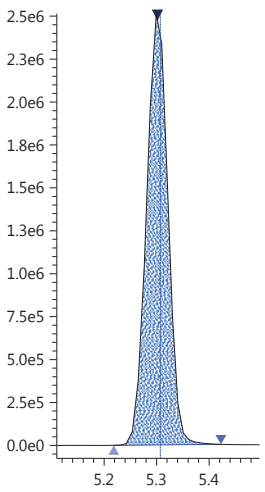
R1 613.05>169.00 (-) 5.05e2



PFDoA-13C

Conc 4.0001
RT 5.302 Area 7146815

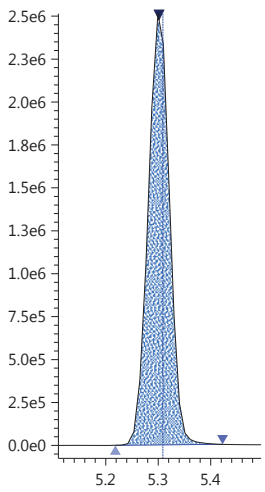
Q 614.80>569.95 (-) 2.51e6



PFDoA-13C_IS

Conc 5.0000
RT 5.302 Area 7146815

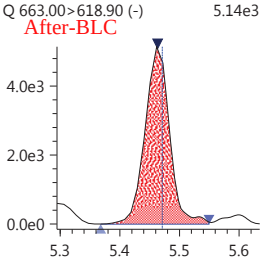
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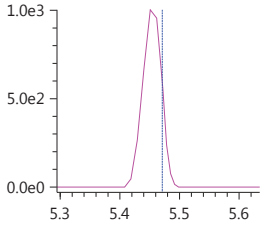
PFTrDA

Conc -0.0011
RT 5.463 Area 14685
R#1 13.60 (0.00)

Q 663.00>618.90 (-) 5.14e3



R1 662.90>169.00 (-) 1.00e3



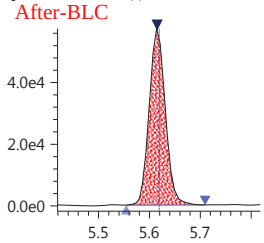
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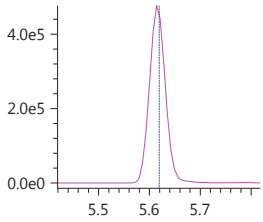
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Conc 0.0055
RT 5.615 Area 126799
R#1 830.39 (0.00)

Q 713.40>669.00 (-) 5.75e4



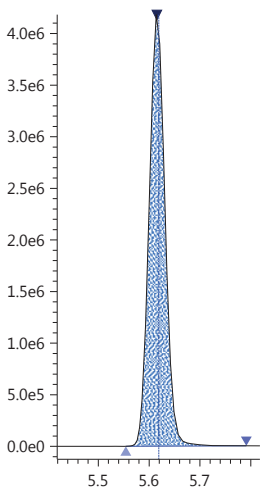
R1 713.40>169.10 (-) 4.76e5



PFTeDA-13C

Conc 3.9620
RT 5.615 Area 9128191

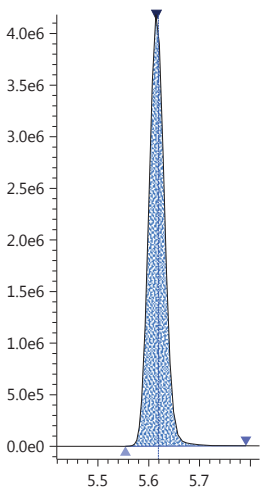
Q 714.70>669.90 (-) 4.18e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.615 Area 9128191

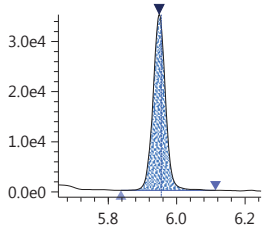
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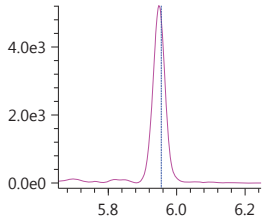
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Conc 0.0018
RT 5.949 Area 89589
R#1 14.79 (0.00)

Q 813.00>769.05 (-) 3.54e4



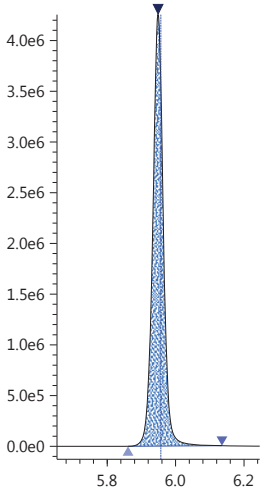
R1 813.00>218.95 (-) 5.21e3



13C-PFHxDA

Conc 4.3126
RT 5.949 Area 9160506

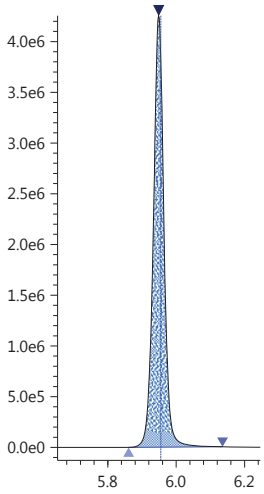
Q 815.00>770.05 (-) 4.25e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.949 Area 9160506

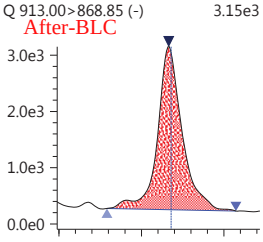
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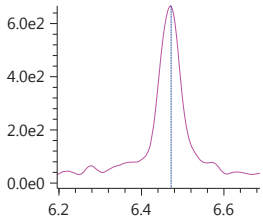
PFODA

Conc 0.0113
RT 6.466 Area 12059
R#1 18.41 (0.00)

Q 913.00>868.85 (-) 3.15e3



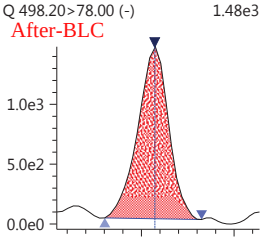
R1 913.00>169.00 (-) 6.67e2



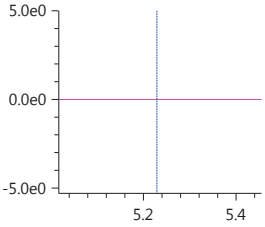
FOSA

Conc 0.0104
RT 5.229 Area 6673
R#1 0.00 (0.00)

Q 498.20>78.00 (-) 1.48e3



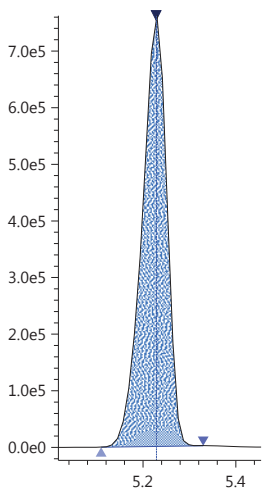
R1 498.20>64.10 (-) 0.00e0



FOSA-13C

Conc 4.1024
RT 5.228 Area 2835526

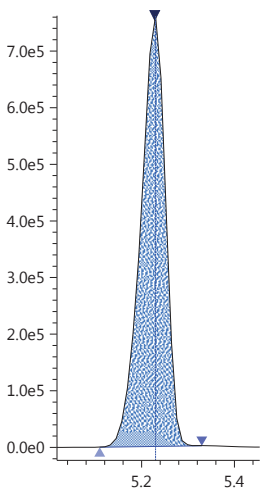
Q 506.00>78.05 (-) 7.62e5



FOSA-13C_IS

Conc 5.0000
RT 5.228 Area 2835526

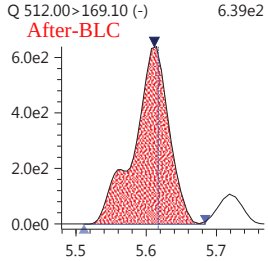
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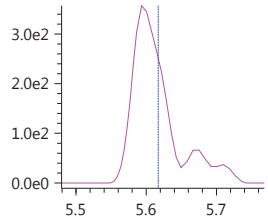
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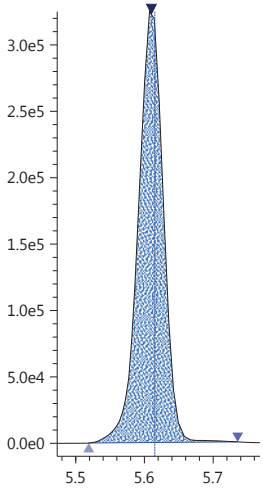
N-MeFOSA
Conc 0.0093
RT 5.612 Area 2235
R#1 36.87 (0.00)
Q 512.00>169.10 (-) 6.39e2



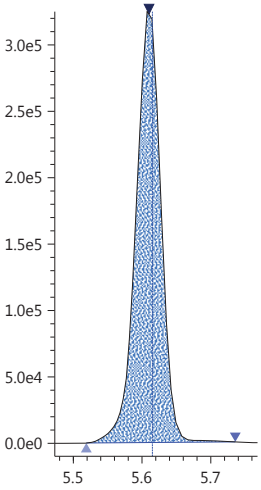
R1 512.00>219.00 (-) 3.57e2



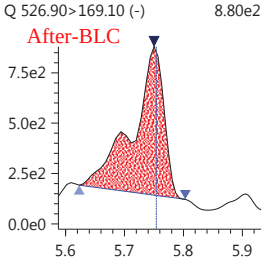
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Conc 4.0475
RT 5.610 Area 825432
Q 514.90>168.90 (-) 3.25e5



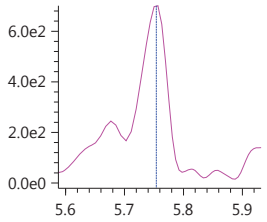
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.610 Area 825432
ISTD 514.90>168.90 (-) 3.25e5



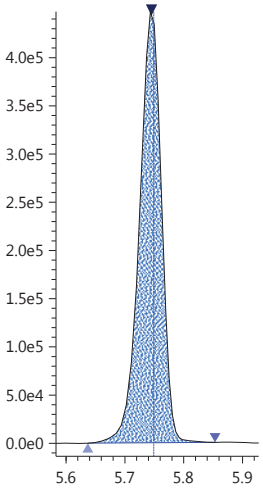
N-EtFOSA
Conc 0.0649
RT 5.750 Area 2718
R#1 84.85 (0.00)
Q 526.90>169.10 (-) 8.80e2



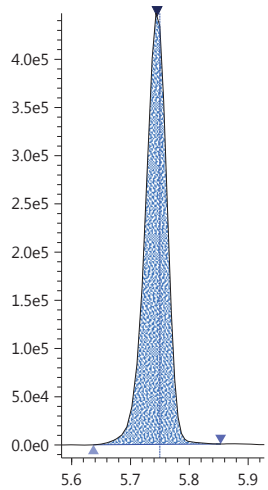
R1 526.90>219.00 (-) 7.01e2



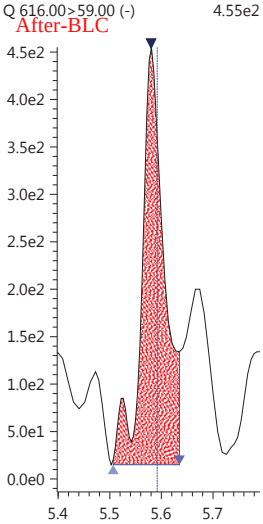
N-EtFOSA-d9
Conc 3.9710
RT 5.745 Area 1166869
Q 530.90>169.15 (-) 4.48e5



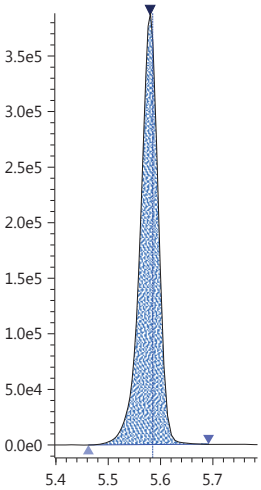
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.745 Area 1166869
ISTD 530.90>169.15 (-) 4.48e5



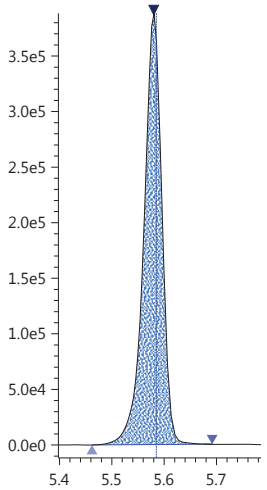
N-MeFOSE
Conc 0.0047
RT 5.580 Area 1309
Q 616.00>59.00 (-) 4.55e2



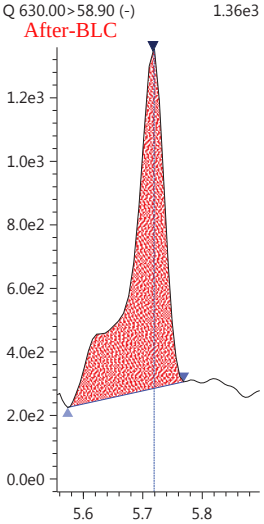
N-MeFOSE-d7
Conc 4.3608
RT 5.580 Area 934026
Q 622.70>59.10 (-) 3.88e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.580 Area 934026
ISTD 622.70>59.10 (-) 3.88e5



N-EtFOSE
Conc 0.0144
RT 5.717 Area 4138
Q 630.00>58.90 (-) 1.36e3



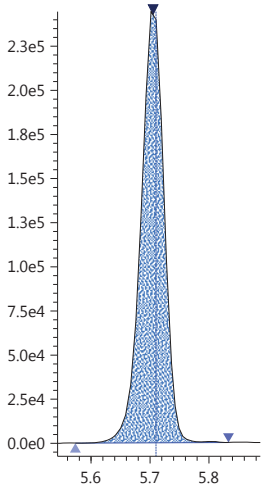
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N-EtFOSE-d9

Conc 4.3426
RT 5.705 Area 673074

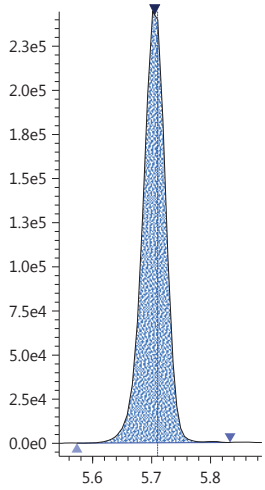
Q 638.70>59.10 (-) 2.45e5



N-EtFOSE-d9_IS

Conc 5.0000
RT 5.705 Area 673074

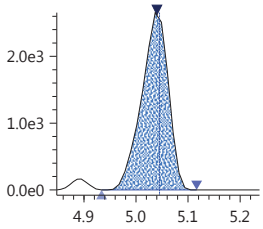
ISTD 638.70>59.10 (-) 2.45e5



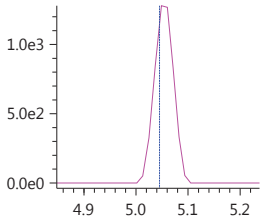
N-MeFOSAA

Conc 0.0650
RT 5.040 Area 9521
R#1 32.85 (0.00)

Q 570.20>419.00 (-) 2.66e3



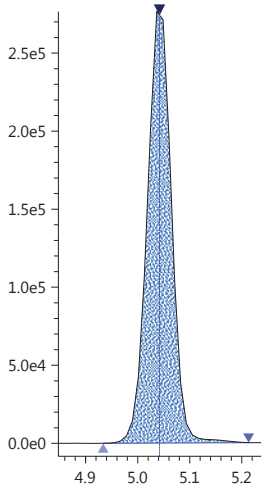
R1 570.20>512.00 (-) 1.28e3



N-MeFOSAA-d3

Conc 4.5059
RT 5.042 Area 897541

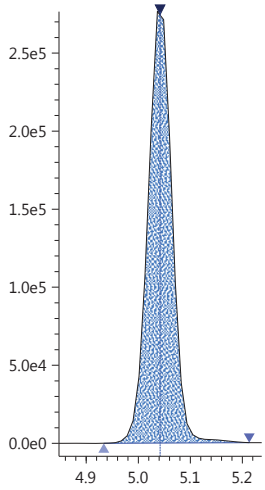
Q 572.80>419.05 (-) 2.77e5



N-MeFOSAA-d3_IS

Conc 5.0000
RT 5.042 Area 897541

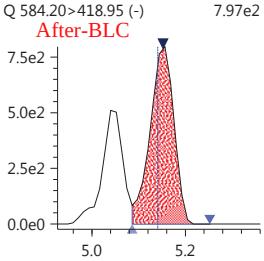
ISTD 572.80>419.05 (-) 2.77e5



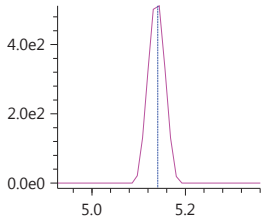
N-EtFOSAA

Conc 0.0284
RT 5.152 Area 2843
R#1 47.02 (0.00)

Q 584.20>418.95 (-) 7.97e2



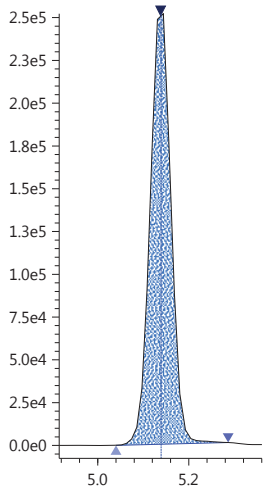
R1 584.20>526.10 (-) 5.12e2



N-EtFOSAA-d5

Conc 4.9917
RT 5.138 Area 809042

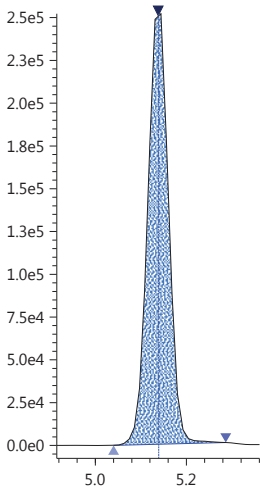
Q 588.80>419.00 (-) 2.52e5



N-EtFOSAA-d5_IS

Conc 5.0000
RT 5.138 Area 809042

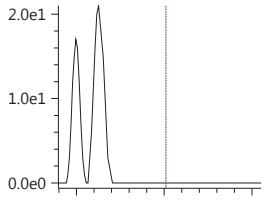
ISTD 588.80>419.00 (-) 2.52e5



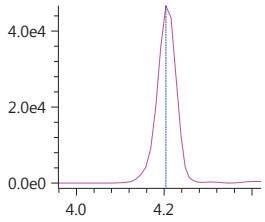
4_2-FTS_1

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 327.00>307.05 (-) 2.10e1



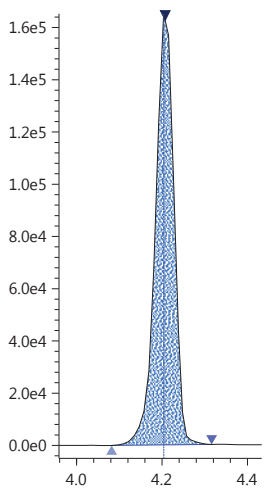
R1 327.00>81.10 (-) 4.67e4



4_2-FTS-13C

Conc 3.6737
RT 4.208 Area 501043

Q 328.80>309.05 (-) 1.65e5

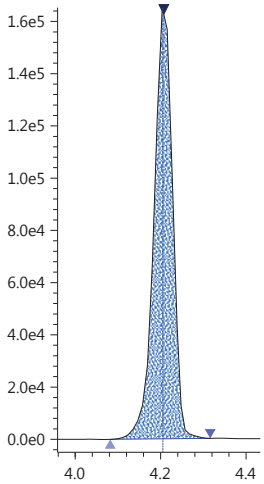


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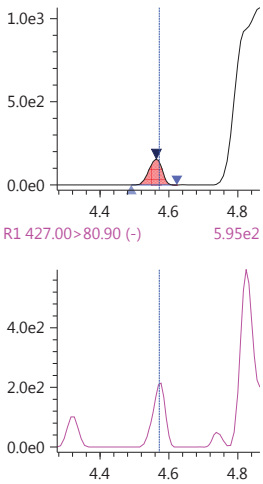
4_2-FTS-13C_IS
Conc 5.0000
RT 4.208 Area 501043

ISTD 328.80>309.05 (-) 1.65e5



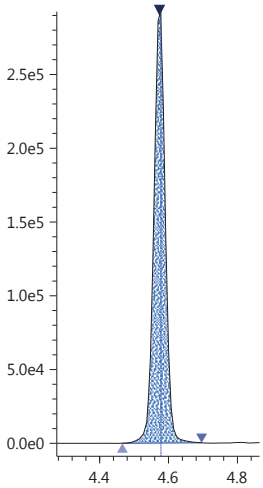
6_2-FTS_1
Conc 0.0034
RT 4.564 Area 414
R#1 106.96 (0.00)

Q 427.00>407.00 (-) 1.07e3



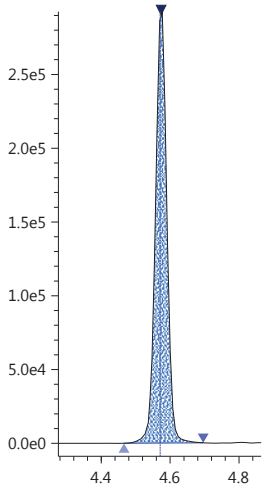
6_2-FTS-13C
Conc 4.6446
RT 4.574 Area 675193

Q 428.90>409.00 (-) 2.93e5



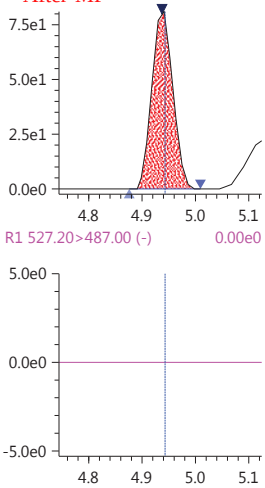
6_2-FTS-13C_IS
Conc 5.0000
RT 4.574 Area 675193

ISTD 428.90>409.00 (-) 2.93e5



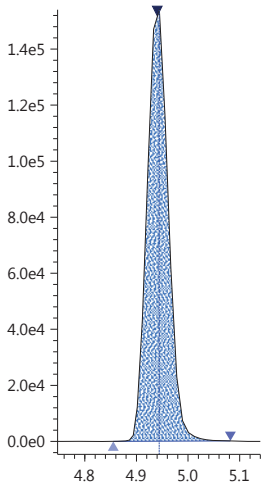
8_2-FTS_1
Conc 0.0034
RT 4.937 Area 223
R#1 0.00 (0.00)

Q 527.10>506.90 (-) 8.10e1



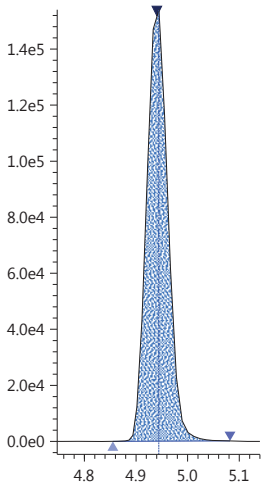
8_2-FTS-13C
Conc 4.9267
RT 4.940 Area 441877

Q 528.80>509.00 (-) 1.54e5



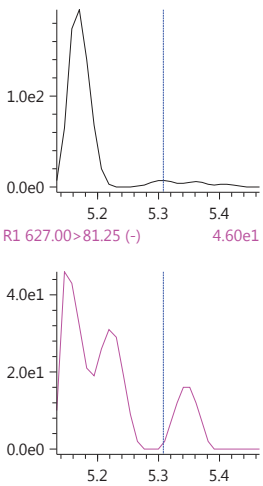
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Conc 5.0000
RT 4.940 Area 441877

ISTD 528.80>509.00 (-) 1.54e5



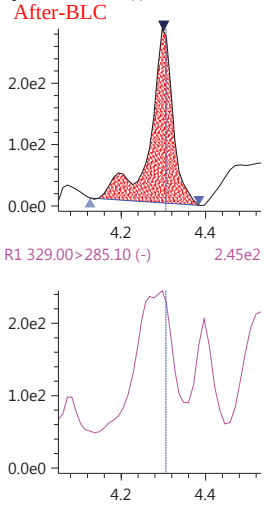
10_2-FtS_1
Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 627.00>606.95 (-) 1.95e2



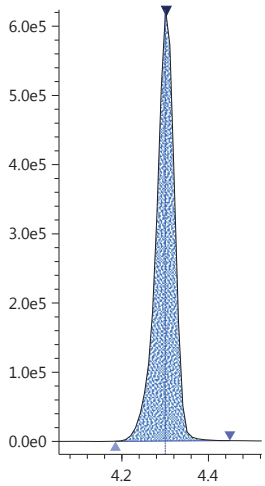
HPFO_DA
Conc -0.0612
RT 4.301 Area 1076
R#1 40.15 (0.00)

Q 329.00>169.00 (-) 2.89e2



HFPO_DA-13C
Conc 4.0248
RT 4.303 Area 1844489

Q 332.00>286.80 (-) 6.24e5

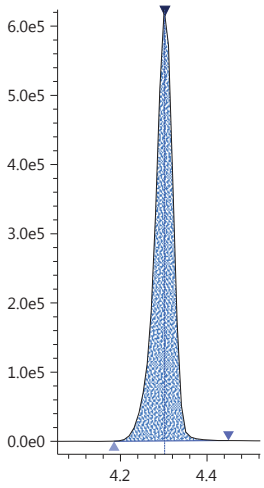


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HFPO_DA-13C_IS

Conc 5.0000
RT 4.303 Area 1844489

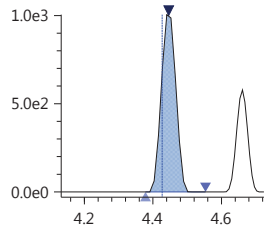
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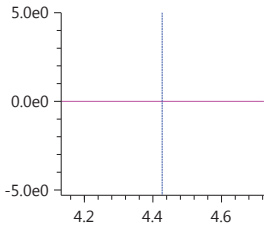
ADONA

Conc 0.0030
RT 4.446 Area 3009
R#1 0.00 (0.00)

Q 377.00>251.00 (-) 1.01e3



R1 377.00>84.95 (-) 0.00e0



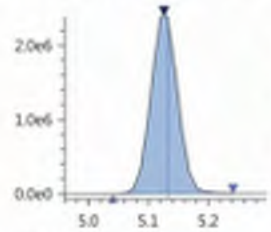
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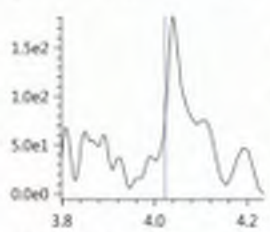
190920_015

Sample ID: IB
Date acquired: 9/20/2019 4:55:36 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_015.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

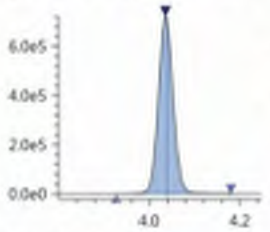
13C7-PFUnDA_IS
Conc 5.0000
RT 5.126 Area 7603436
ISTD 570.00>525.00 (-) 2.39e6



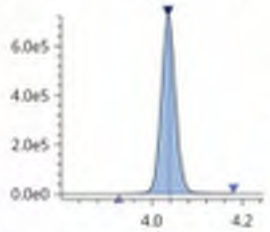
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 (-) 1.82e2



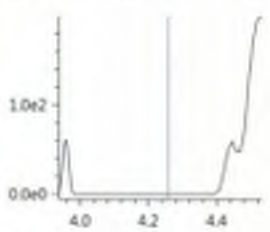
PFBS-13C
Conc 4.3515
RT 4.036 Area 1615038
Q 301.80>80.00 (-) 7.20e5



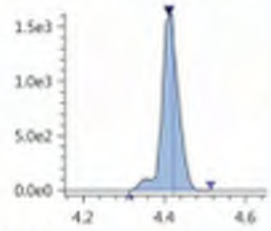
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Conc 5.0000
RT 4.036 Area 1615038
ISTD 301.80>80.00 (-) 7.20e5



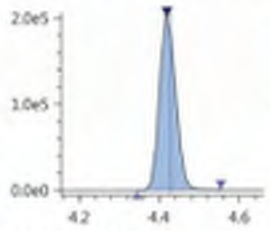
PFPeS
Conc ----
RT ---- Area ----
Q 349.00>99.00 (-) 1.99e2



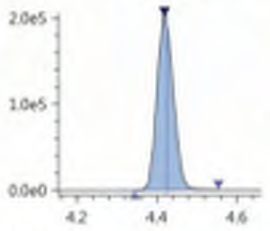
PFHxS_1
Conc 0.0288
RT 4.412 Area 4693
Q 399.00>80.00 (-) 1.61e3



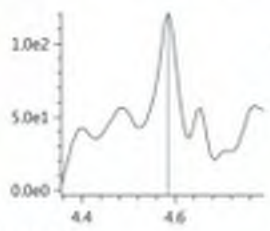
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Conc 2.7194
RT 4.419 Area 576019
Q 402.70>84.05 (-) 2.06e5



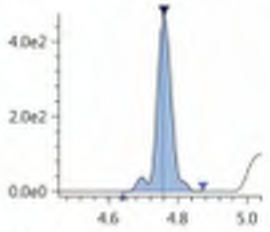
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ISTD 402.70>84.05 (-) 2.06e5



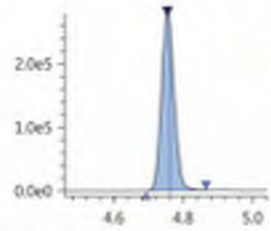
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Conc ----
RT ---- Area ----
Q 449.00>80.15 (-) 1.21e2



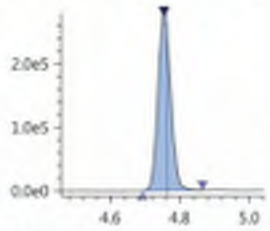
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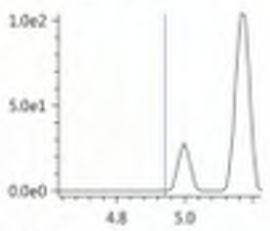
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Q 502.80>80.05 (-) 2.79e5



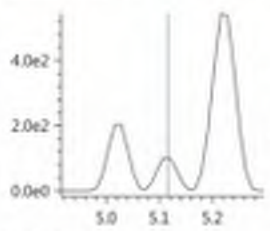
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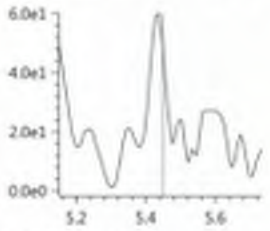
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Conc ----
RT ---- Area ----
Q 549.00>99.00 (-) 1.04e2



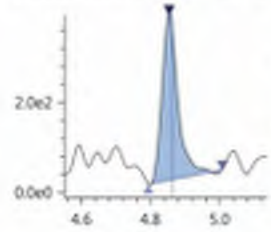
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Conc ----
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Q 599.00>79.90 (-) 5.44e2



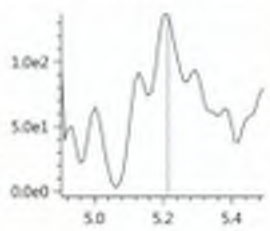
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Conc ----
RT ---- Area ----
Q 699.00>79.95 (-) 6.00e1



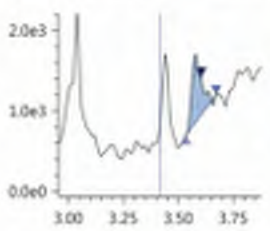
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Q 531.00>351.00 (-) 3.94e2



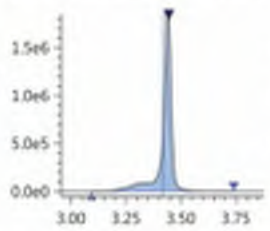
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RT ---- Area ----
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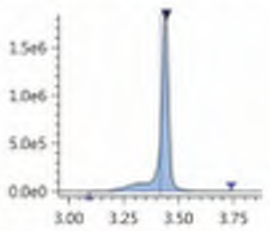
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RT 3.602 Area 2500
Q 213.00>169.10 (-) 2.20e3



PFBA-13C
Conc 4.0283
RT 3.443 Area 4890387
Q 216.90>172.15 (-) 1.85e6



PFBA-13C_IS
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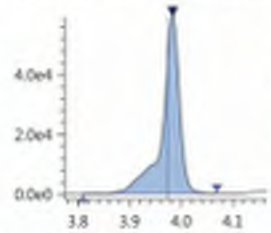


Manual Integration - Before

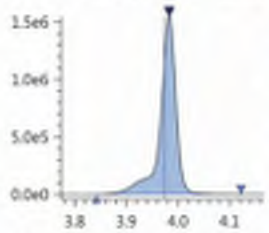
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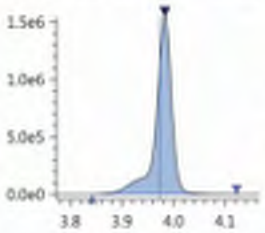
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RT 3.983 Area 139365
Q 263.05>219.10 (-) 5.94e4



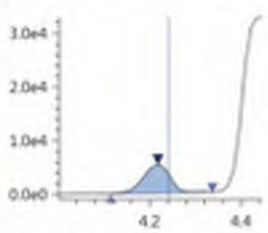
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Q 267.90>223.00 (-) 1.54e6



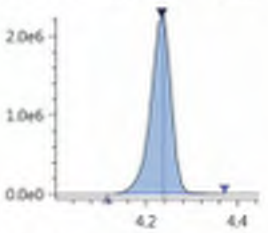
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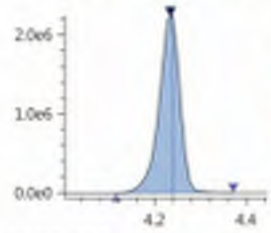
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Q 313.00>269.00 (-) 3.30e4



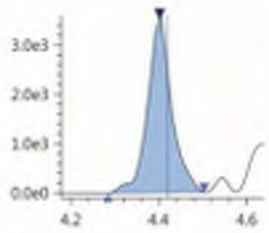
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Q 314.90>270.10 (-) 2.24e6



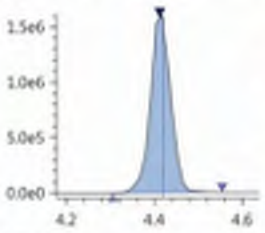
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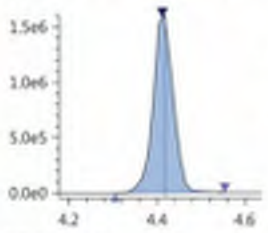
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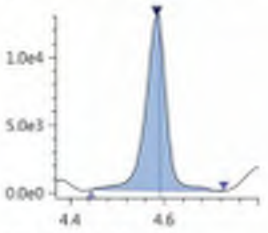
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Q 366.90>322.10 (-) 1.60e6



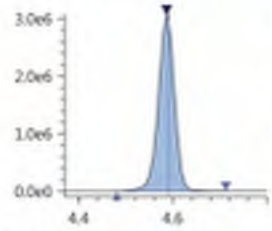
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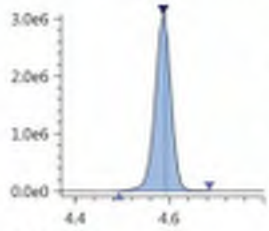
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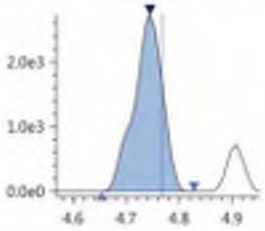
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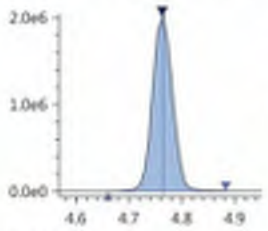
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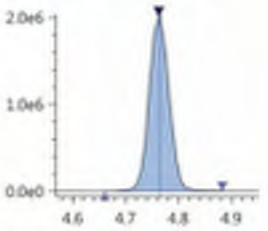
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RT 4.744 Area 10247
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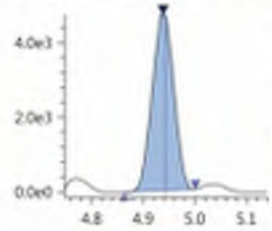
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Q 467.80>423.00 (-) 2.04e6



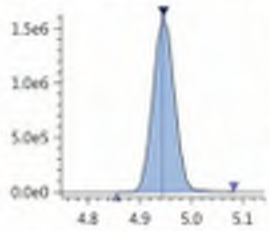
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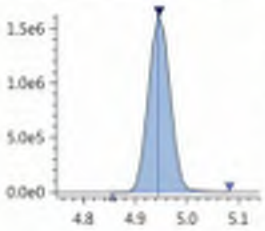
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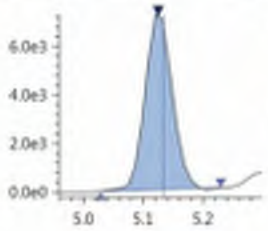
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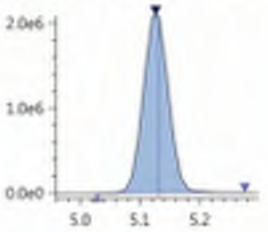
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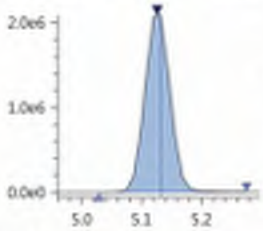
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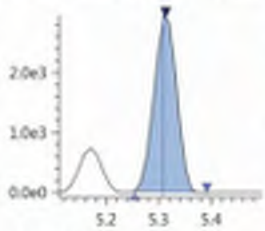
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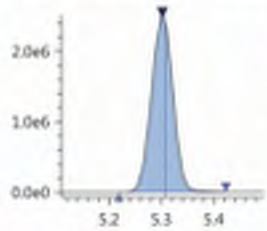
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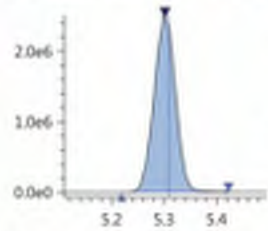
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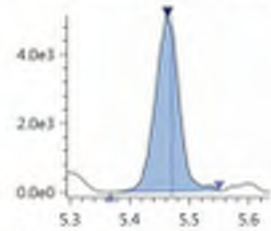
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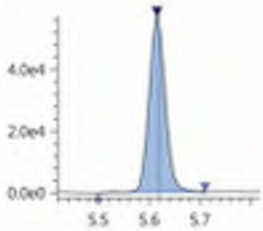
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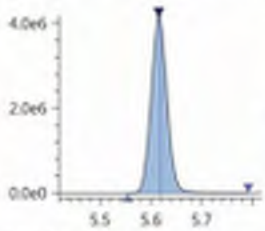
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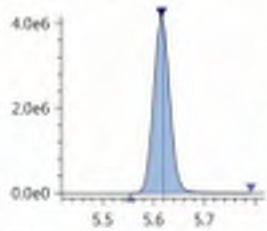
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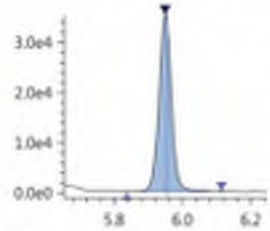
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Q 714.70>669.90 (-) 4.18e6



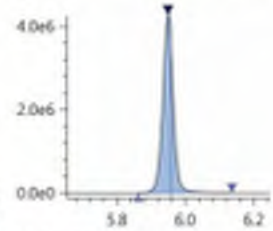
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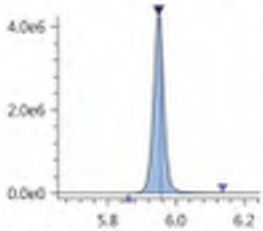
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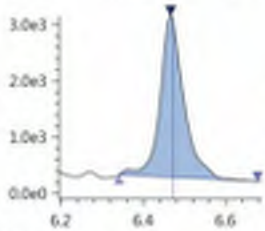
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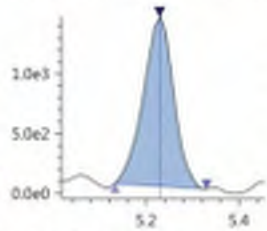
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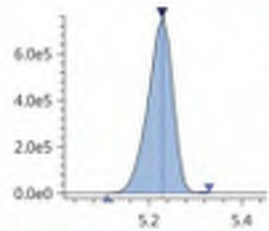
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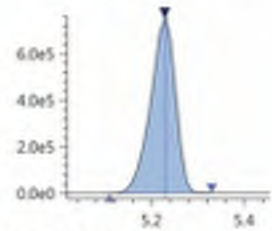
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Q 498.20>78.00 (-) 1.48e3



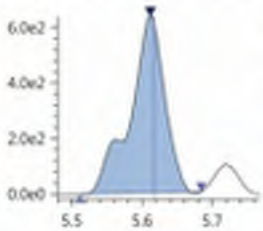
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RT 5.228 Area 2835526
Q 506.00>78.05 (-) 7.62e5



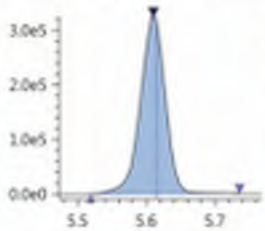
FOSA-13C_IS
Conc 5.0000
RT 5.228 Area 2835526
ISTD 506.00>78.05 (-) 7.62e5



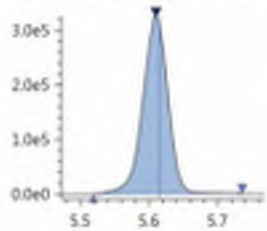
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Conc 0.0091
RT 5.612 Area 2183
Q 512.00>169.10 (-) 6.39e2



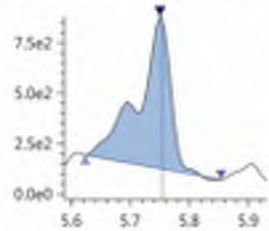
N-MeFOSA-d3
Conc 4.0475
RT 5.610 Area 825432
Q 514.90>168.90 (-) 3.25e5



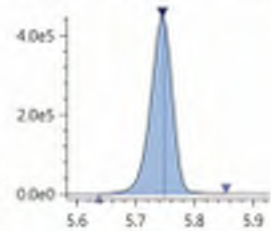
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.610 Area 825432
ISTD 514.90>168.90 (-) 3.25e5



N-EtFOSA
Conc 0.0632
RT 5.750 Area 2846
Q 526.90>169.10 (-) 8.80e2



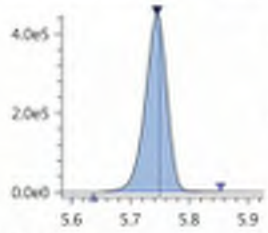
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Conc 3.9710
RT 5.745 Area 1166869
Q 530.90>169.15 (-) 4.48e5



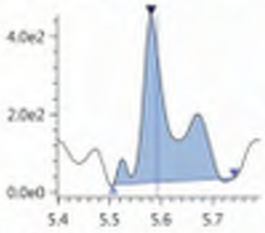
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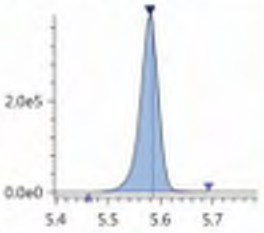
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.745 Area 1166869
ISTD 530.90>169.15 (-) 4.48e5



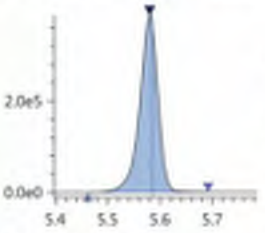
N-MeFOSE
Conc 0.0063
RT 5.580 Area 1757
Q 616.00>59.00 (-) 4.55e2



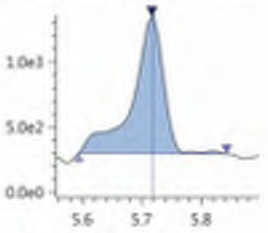
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Conc 4.3608
RT 5.580 Area 934026
Q 622.70>59.10 (-) 3.88e5



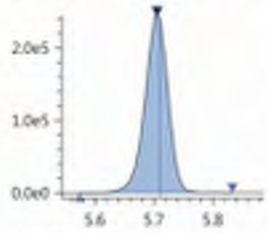
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Conc 5.0000
RT 5.580 Area 934026
ISTD 622.70>59.10 (-) 3.88e5



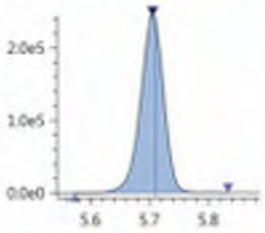
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Conc 0.0133
RT 5.717 Area 3846
Q 630.00>58.90 (-) 1.36e3



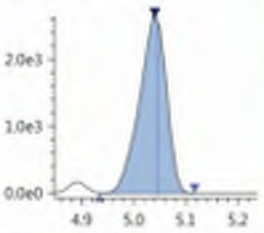
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Conc 4.3426
RT 5.705 Area 673074
Q 638.70>59.10 (-) 2.45e5



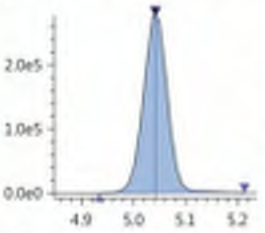
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.705 Area 673074
ISTD 638.70>59.10 (-) 2.45e5



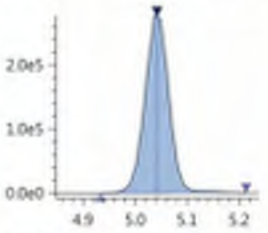
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Conc 0.0643
RT 5.040 Area 9521
Q 570.20>419.00 (-) 2.66e3



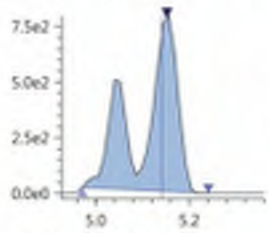
N-MeFOSAA-d3
Conc 4.5059
RT 5.042 Area 897541
Q 572.80>419.05 (-) 2.77e5



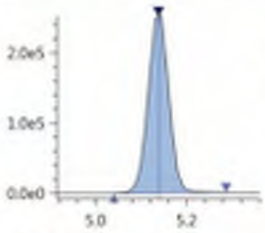
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.042 Area 897541
ISTD 572.80>419.05 (-) 2.77e5



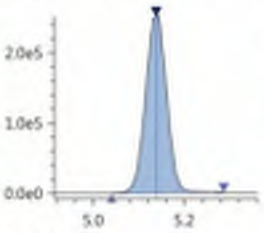
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Conc 0.0414
RT 5.152 Area 4192
Q 584.20>418.95 (-) 7.97e2



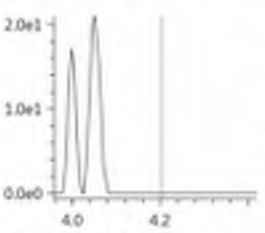
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Conc 4.9917
RT 5.138 Area 809042
Q 588.80>419.00 (-) 2.52e5



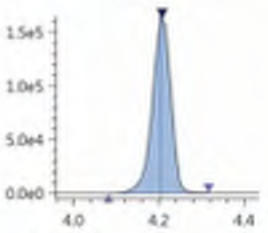
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Conc 5.0000
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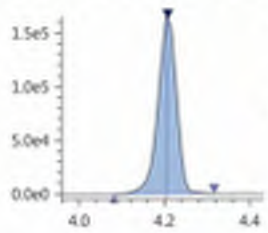
4_2-FTS_1
Conc -----
RT ----- Area -----
Q 327.00>307.05 (-) 2.10e1



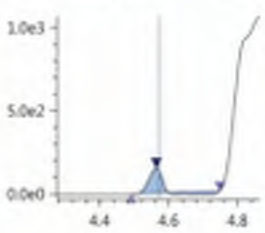
4_2-FTS-13C
Conc 3.6737
RT 4.208 Area 501043
Q 328.80>309.05 (-) 1.65e5



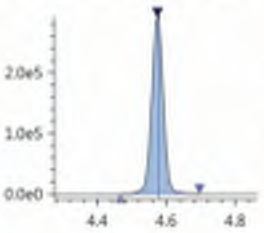
4_2-FTS-13C_IS
Conc 5.0000
RT 4.208 Area 501043
ISTD 328.80>309.05 (-) 1.65e5



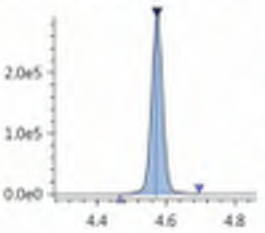
6_2-FTS_1
Conc 0.0023
RT 4.564 Area 290
Q 427.00>407.00 (-) 1.07e3



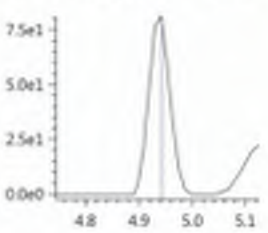
6_2-FTS-13C
Conc 4.6446
RT 4.574 Area 675193
Q 428.90>409.00 (-) 2.93e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.574 Area 675193
ISTD 428.90>409.00 (-) 2.93e5



8_2-FTS_1
Conc -----
RT ----- Area -----
Q 527.10>506.90 (-) 8.10e1



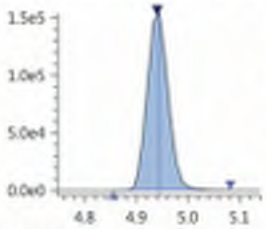
Manual Integration - Before

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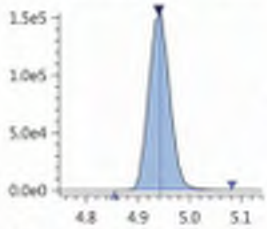
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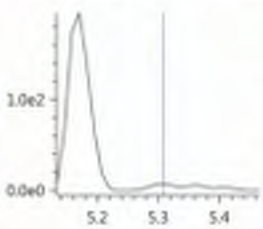
8_2-FTS-13C
Conc 4.9267
RT 4.940 Area 441877
Q 528.80>509.00 (-) 1.54e5



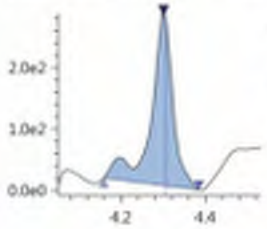
8_2-FTS-13C_IS
Conc 5.0000
RT 4.940 Area 441877
ISTD 528.80>509.00 (-) 1.54e5



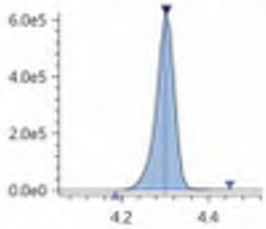
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 (-) 1.95e2



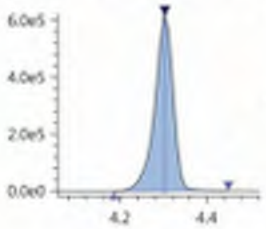
HPFO_DA
Conc 0.0040
RT 4.301 Area 1016
Q 329.00>169.00 (-) 2.89e2



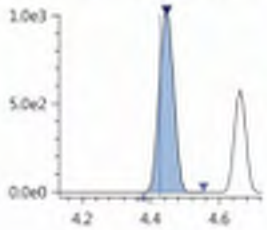
HFPO_DA-13C
Conc 4.0248
RT 4.303 Area 1844489
Q 332.00>286.80 (-) 6.24e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.303 Area 1844489
ISTD 332.00>286.80 (-) 6.24e5



ADONA
Conc 0.0030
RT 4.446 Area 3009
Q 377.00>251.00 (-) 1.01e3



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190920_016

Sample ID: 1.0 PPB ICAL
Date acquired: 9/20/2019 5:06:39 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_016.lcd
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.128	7297389	7297389	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.035	380873	1648399	2	0.8699	ng/mL	0.8874
PFBS-13C	Auto	4.036	1648399	7297389	1	4.6277	ng/mL	5.0000
PFBS-13C_IS	Auto	4.036	1648399	1648399	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.253	151494	1648399	2	1.0894	ng/mL	0.9409
PFHxS_1	Auto	4.416	202458	758064	3	0.9559	ng/mL	0.9131
PFHxS-18O	M	4.422	758064	7297389	1	3.8131	ng/mL	5.0000
PFHxS-18O_IS	M	4.422	758064	758064	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.583	228742	758064	3	1.1965	ng/mL	0.9534
PFOS_1	M	4.755	161020	815884	4	0.9438	ng/mL	0.9292
PFOS-13C	Auto	4.756	815884	7297389	1	4.1168	ng/mL	5.0000
PFOS-13C_IS	Auto	4.756	815884	815884	4	5.0000	ng/mL	5.0000
PFNS	M	4.935	134025	815884	4	1.1961	ng/mL	0.9616
PFDS_1	M	5.111	157972	815884	4	1.0124	ng/mL	0.9647
PFDOS	Auto	5.444	213812	815884	4	1.2106	ng/mL	0.9696
9Cl-PF3ONS	Auto	4.858	1097289	815884	4	0.9095	ng/mL	0.9332
11Cl-PF3OUdS	Auto	5.208	823417	815884	4	1.1351	ng/mL	0.9432
PFBA	M	3.444	966174	5104677	5	0.9958	ng/mL	1.0000
PFBA-13C	Auto	3.443	5104677	7297389	1	4.3812	ng/mL	5.0000
PFBA-13C_IS	Auto	3.443	5104677	5104677	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.983	1412751	3401121	6	0.9921	ng/mL	1.0000
PFPeA-13C	Auto	3.983	3401121	7297389	1	4.4566	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.983	3401121	3401121	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.235	1181188	7141651	7	0.9564	ng/mL	1.0000
PFHxA-13C	Auto	4.236	7141651	7297389	1	4.0564	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.236	7141651	7141651	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.417	1146011	5585359	8	1.0162	ng/mL	1.0000
PFHpA-13C	Auto	4.417	5585359	7297389	1	3.7522	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.417	5585359	5585359	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.589	1819300	8040997	9	0.9571	ng/mL	1.0000
PFOA-13C	Auto	4.589	8040997	7297389	1	4.5790	ng/mL	5.0000
PFOA-13C_IS	Auto	4.589	8040997	8040997	9	5.0000	ng/mL	5.0000
PFNA	Auto	4.765	917294	5140872	10	1.0155	ng/mL	1.0000
PFNA-13C	Auto	4.765	5140872	7297389	1	3.8528	ng/mL	5.0000
PFNA-13C_IS	Auto	4.765	5140872	5140872	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.949	1202318	5495759	11	1.0155	ng/mL	1.0000
PFDA-13C	Auto	4.949	5495759	7297389	1	4.6605	ng/mL	5.0000
PFDA-13C_IS	Auto	4.949	5495759	5495759	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.128	865310	5003506	12	0.9768	ng/mL	1.0000
PFUnA-13C	Auto	5.128	5003506	7297389	1	4.7919	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.128	5003506	5003506	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.305	1123105	8282422	13	1.0376	ng/mL	1.0000
PFDoA-13C	Auto	5.304	8282422	7297389	1	4.8301	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.304	8282422	8282422	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.468	1610475	10203758	14	1.0416	ng/mL	1.0000
PFTeDA	Auto	5.619	1074533	10203758	14	0.9841	ng/mL	1.0000
PFTeDA-13C	Auto	5.619	10203758	7297389	1	4.6146	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.619	10203758	10203758	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.953	1444846	9286127	15	0.9916	ng/mL	1.0000
13C-PFHxDA	Auto	5.952	9286127	7297389	1	4.5551	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.952	9286127	9286127	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.468	1088352	9286127	15	1.0033	ng/mL	1.0000
FOSA	Auto	5.231	709554	3066305	16	1.0208	ng/mL	1.0000
FOSA-13C	Auto	5.231	3066305	7297389	1	4.6223	ng/mL	5.0000
FOSA-13C_IS	Auto	5.231	3066305	3066305	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.617	248658	868753	17	0.9826	ng/mL	1.0000
N-MeFOSA-d3	Auto	5.615	868753	7297389	1	4.4386	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.615	868753	868753	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.755	44372	1218201	18	1.0145	ng/mL	1.0000
N-EtFOSA-d9	Auto	5.749	1218201	7297389	1	4.3196	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.749	1218201	1218201	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.591	260867	919100	19	0.9503	ng/mL	1.0000
N-MeFOSE-d7	Auto	5.583	919100	7297389	1	4.4711	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.583	919100	919100	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.720	285517	738125	20	0.9033	ng/mL	1.0000
N-EtFOSE-d9	Auto	5.710	738125	7297389	1	4.9620	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.710	738125	738125	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.048	127766	833364	21	0.9396	ng/mL	1.0000

Insight Report

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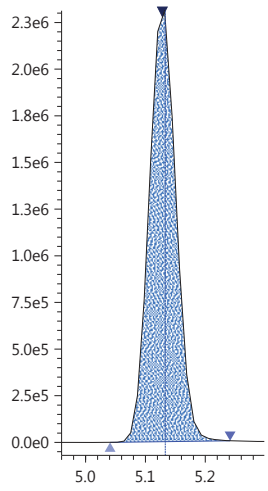
(Table continued from previous page)

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.043	833364	7297389	1	4.3592	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.043	833364	833364	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.147	84819	670864	22	1.0229	ng/mL	1.0000
N-EtFOSAA-d5	Auto	5.141	670864	7297389	1	4.3127	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.141	670864	670864	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.208	105624	565615	23	0.9932	ng/mL	0.9372
4_2-FTS-13C	Auto	4.208	565615	7297389	1	4.3211	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.208	565615	565615	23	5.0000	ng/mL	5.0000
6_2-FTS_1	Auto	4.576	119547	623979	24	1.0507	ng/mL	0.9512
6_2-FTS-13C	Auto	4.576	623979	7297389	1	4.4723	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.576	623979	623979	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.943	54659	374630	25	0.9828	ng/mL	0.9600
8_2-FTS-13C	Auto	4.942	374630	7297389	1	4.3521	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.942	374630	374630	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.306	66350	374630	25	1.0987	ng/mL	0.9662
HPFO_DA	Auto	4.302	326790	2115056	26	0.9440	ng/mL	1.0000
HFPO_DA-13C	Auto	4.304	2115056	7297389	1	4.8088	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.304	2115056	2115056	26	5.0000	ng/mL	5.0000
ADONA	M	4.432	1273040	2115056	26	1.0925	ng/mL	0.9451

13C7-PFUnDA_IS

Conc 5.0000
RT 5.128 Area 7297389

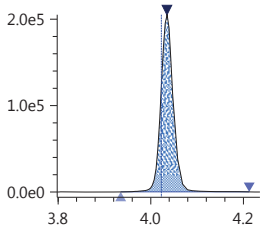
ISTD 570.00>525.00 (-) 2.31e6



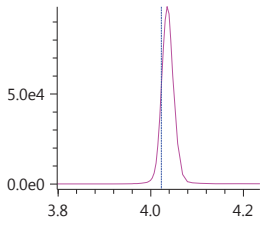
PFBS_1

Conc 0.8699
RT 4.035 Area 380873
R#1 45.72 (0.00)

Q 299.00>80.00 (-) 2.05e5



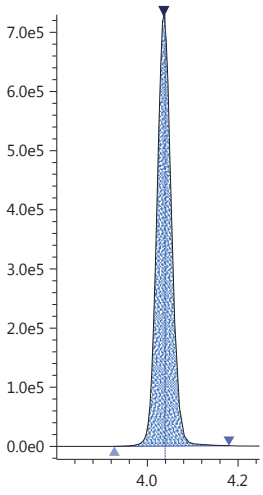
R1 298.80>99.00 (-) 9.85e4



PFBS-13C

Conc 4.6277
RT 4.036 Area 1648399

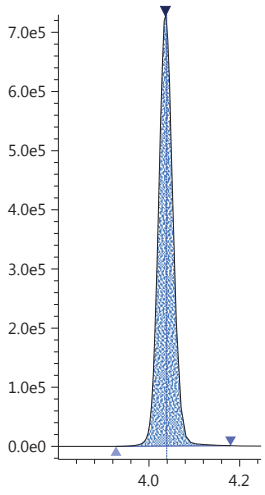
Q 301.80>80.00 (-) 7.30e5



PFBS-13C_IS

Conc 5.0000
RT 4.036 Area 1648399

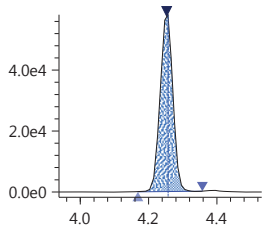
ISTD 301.80>80.00 (-) 7.30e5



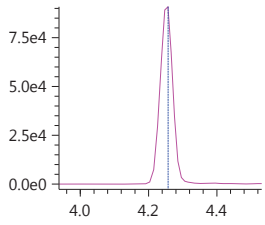
PFPeS

Conc 1.0894
RT 4.253 Area 151494
R#1 158.40 (0.00)

Q 349.00>99.00 (-) 5.82e4



R1 349.00>79.95 (-) 9.09e4



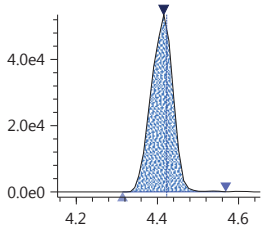
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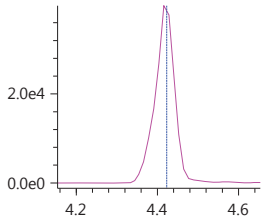
PFHxS_1

Conc 0.9559
RT 4.416 Area 202458
R#1 72.09 (0.00)

Q 399.00>80.00 (-) 5.35e4



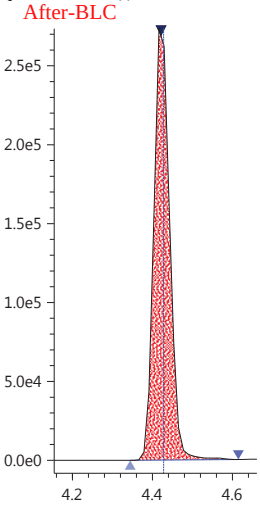
R1 399.00>99.00 (-) 3.98e4



PFHxS-18O

Conc 3.8131
RT 4.422 Area 758064

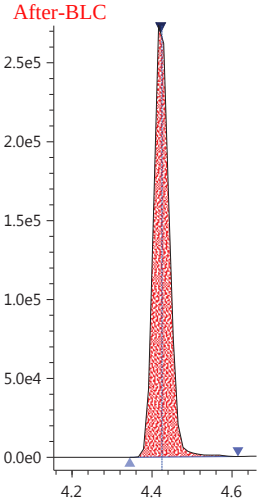
Q 402.70>84.05 (-) 2.74e5



PFHxS-18O_IS

Conc 5.0000
RT 4.422 Area 758064

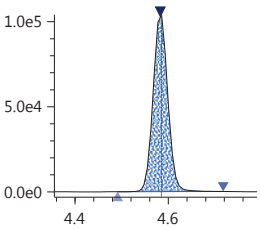
ISTD 402.70>84.05 (-) 2.74e5



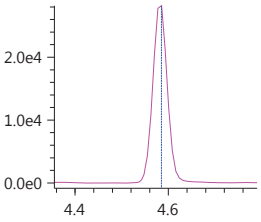
PFHpS_1

Conc 1.1965
RT 4.583 Area 228742
R#1 27.91 (0.00)

Q 449.00>80.15 (-) 1.04e5



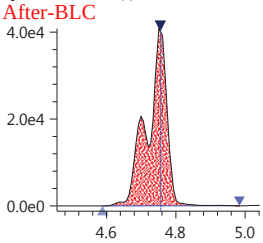
R1 449.00>99.20 (-) 2.82e4



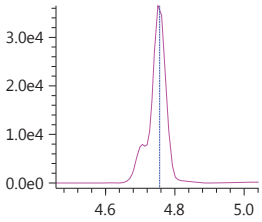
PFOS_1

Conc 0.9438
RT 4.755 Area 161020
R#1 89.34 (0.00)

Q 499.00>80.00 (-) 4.08e4



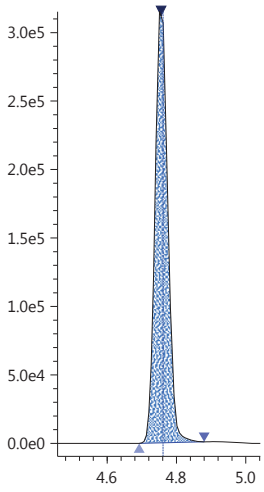
R1 499.00>99.00 (-) 3.65e4



PFOS-13C

Conc 4.1168
RT 4.756 Area 815884

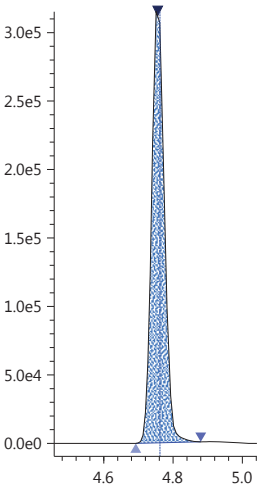
Q 502.80>80.05 (-) 3.15e5



PFOS-13C_IS

Conc 5.0000
RT 4.756 Area 815884

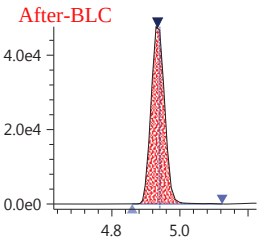
ISTD 502.80>80.05 (-) 3.15e5



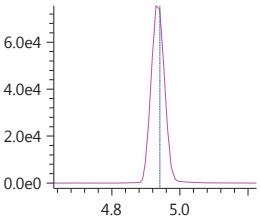
PFNS

Conc 1.1961
RT 4.935 Area 134025
R#1 158.22 (0.00)

Q 549.00>99.00 (-) 4.77e4



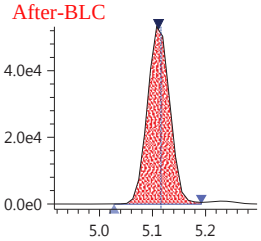
R1 549.00>79.95 (-) 7.55e4



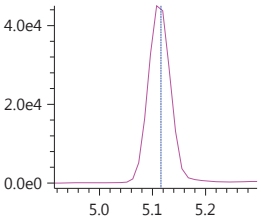
PFDS_1

Conc 1.0124
RT 5.111 Area 157972
R#1 86.81 (0.00)

Q 599.00>79.90 (-) 5.32e4



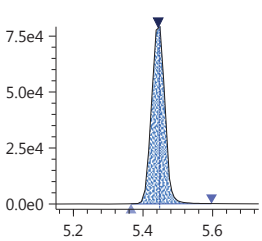
R1 599.00>99.10 (-) 4.50e4



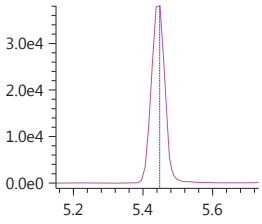
PFDOS

Conc 1.2106
RT 5.444 Area 213812
R#1 48.19 (0.00)

Q 699.00>79.95 (-) 7.92e4



R1 699.00>99.05 (-) 3.81e4



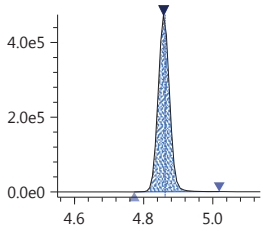
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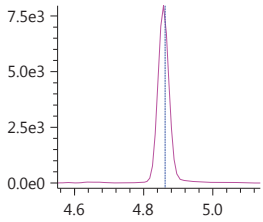
9Cl-PF3ONS

Conc 0.9095
RT 4.858 Area 1097289
R#1 1.67 (0.00)

Q 531.00>351.00 (-) 4.75e5



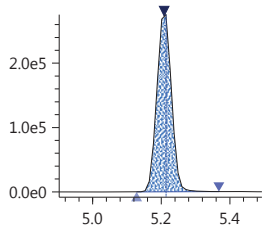
R1 531.00>98.90 (-) 7.96e3



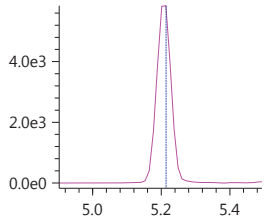
11Cl-PF3OUdS

Conc 1.1351
RT 5.208 Area 823417
R#1 2.16 (0.00)

Q 631.00>451.05 (-) 2.75e5



R1 631.00>98.90 (-) 5.84e3

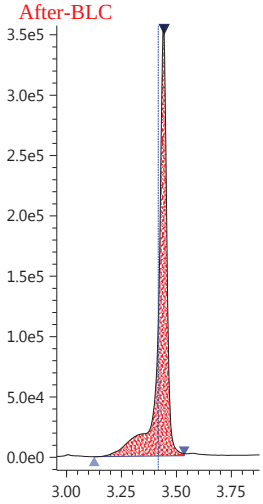


PFBA

Conc 0.9958
RT 3.444 Area 966174

Q 213.00>169.10 (-) 3.58e5

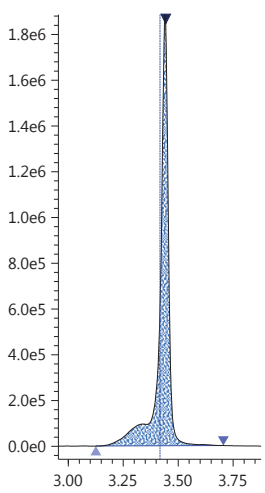
After-BLC



PFBA-13C

Conc 4.3812
RT 3.443 Area 5104677

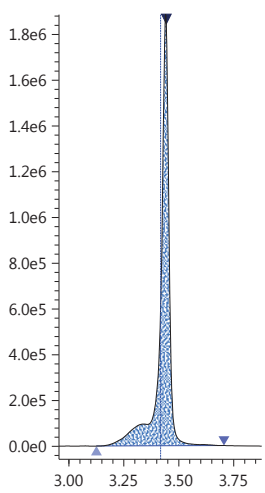
Q 216.90>172.15 (-) 1.89e6



PFBA-13C_IS

Conc 5.0000
RT 3.443 Area 5104677

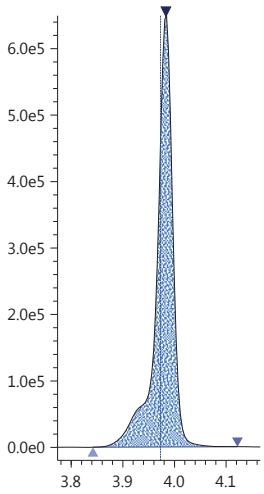
ISTD 216.90>172.15 (-) 1.89e6



PFPeA

Conc 0.9921
RT 3.983 Area 1412751

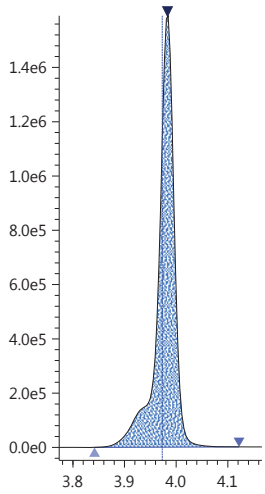
Q 263.05>219.10 (-) 6.50e5



PFPeA-13C

Conc 4.4566
RT 3.983 Area 3401121

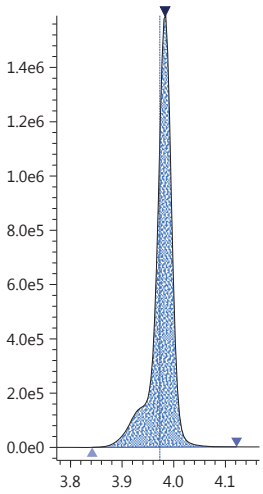
Q 267.90>223.00 (-) 1.59e6



PFPeA-13C_IS

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RT 3.983 Area 3401121

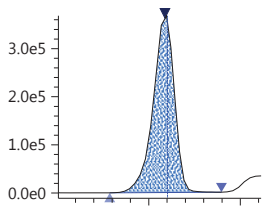
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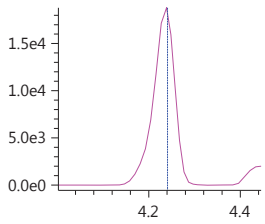
PFHxA

Conc 0.9564
RT 4.235 Area 1181188
R#1 4.95 (0.00)

Q 313.00>269.00 (-) 3.68e5



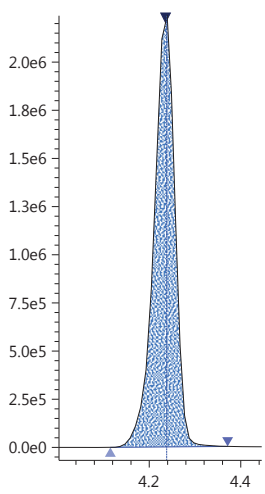
R1 313.00>119.10 (-) 1.88e4



PFHxA-13C

Conc 4.0564
RT 4.236 Area 7141651

Q 314.90>270.10 (-) 2.24e6



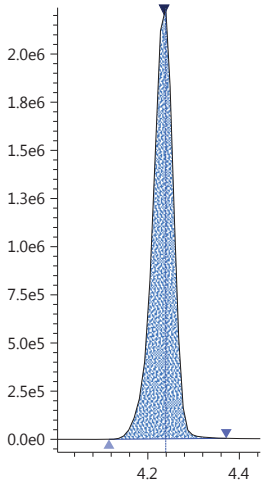
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PFHxA-13C_IS

Conc 5.0000
RT 4.236 Area 7141651

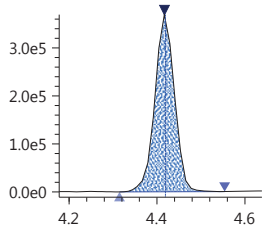
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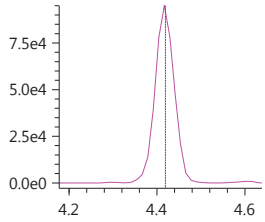
PFHpA

Conc 1.0162
RT 4.417 Area 1146011
R#1 25.70 (0.00)

Q 362.90>319.00 (-) 3.69e5



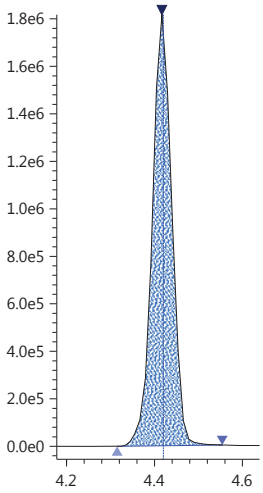
R1 362.90>169.00 (-) 9.50e4



PFHpA-13C

Conc 3.7522
RT 4.417 Area 5585359

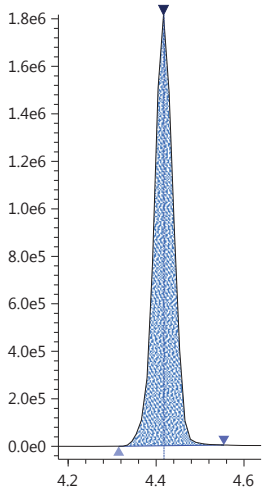
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PFHpA-13C_IS

Conc 5.0000
RT 4.417 Area 5585359

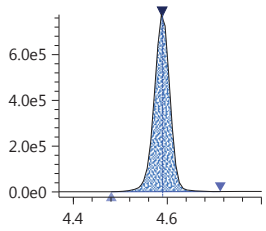
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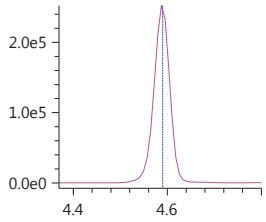
PFOA

Conc 0.9571
RT 4.589 Area 1819300
R#1 32.56 (0.00)

Q 413.00>369.00 (-) 7.75e5



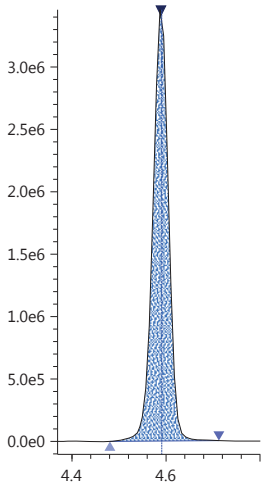
R1 413.00>169.10 (-) 2.52e5



PFOA-13C

Conc 4.5790
RT 4.589 Area 8040997

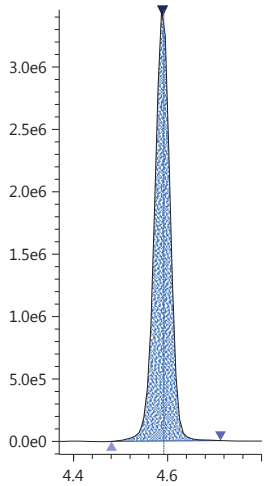
Q 416.80>372.05 (-) 3.46e6



PFOA-13C_IS

Conc 5.0000
RT 4.589 Area 8040997

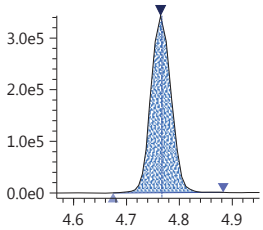
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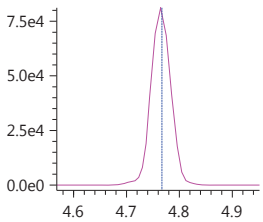
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Conc 1.0155
RT 4.765 Area 917294
R#1 23.64 (0.00)

Q 463.00>418.90 (-) 3.43e5



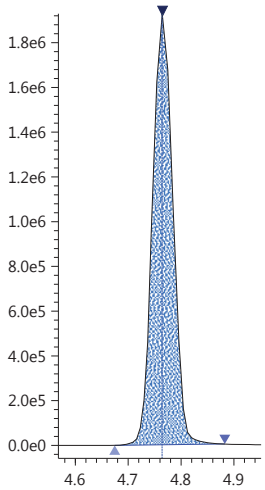
R1 463.00>219.00 (-) 8.12e4



PFNA-13C

Conc 3.8528
RT 4.765 Area 5140872

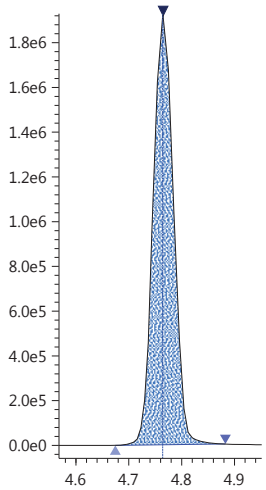
Q 467.80>423.00 (-) 1.93e6



PFNA-13C_IS

Conc 5.0000
RT 4.765 Area 5140872

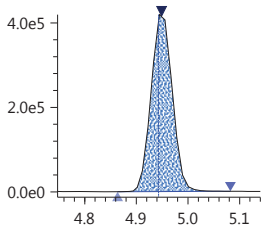
ISTD 467.80>423.00 (-) 1.93e6



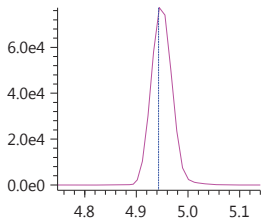
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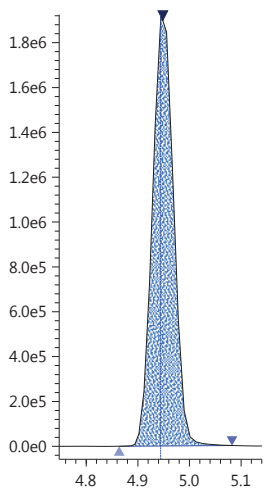
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Conc 1.0155
RT 4.949 Area 1202318
R#1 18.24 (0.00)
Q 513.00>468.80 (-) 4.20e5



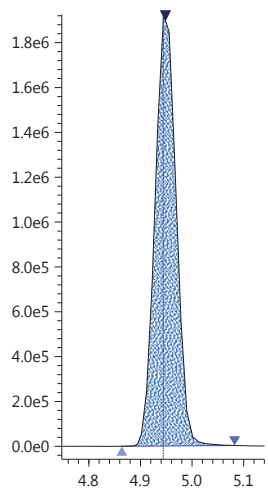
R1 513.00>219.10 (-) 7.73e4



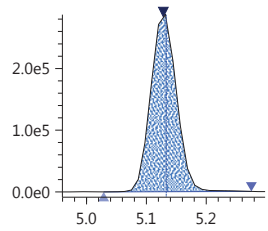
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RT 4.949 Area 5495759
Q 514.80>469.95 (-) 1.92e6



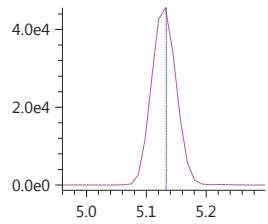
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Conc 5.0000
RT 4.949 Area 5495759
ISTD 514.80>469.95 (-) 1.92e6



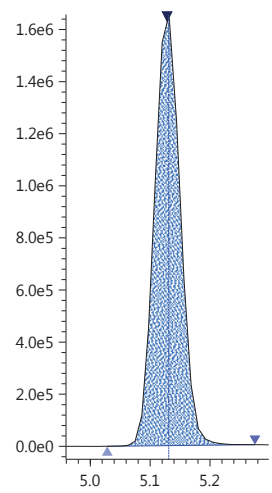
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Conc 0.9768
RT 5.128 Area 865310
R#1 15.90 (0.00)
Q 563.00>518.90 (-) 2.87e5



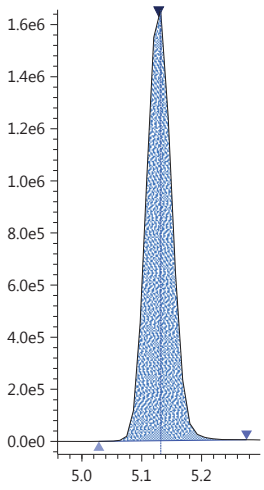
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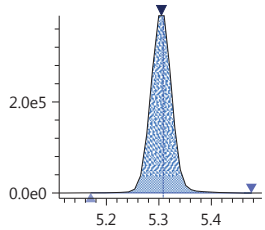
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Conc 4.7919
RT 5.128 Area 5003506
Q 564.80>519.95 (-) 1.66e6



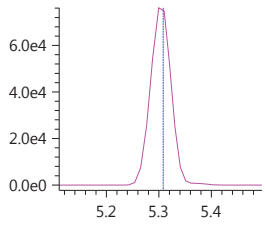
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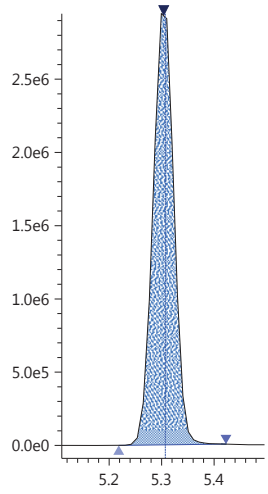
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RT 5.305 Area 1123105
R#1 19.60 (0.00)
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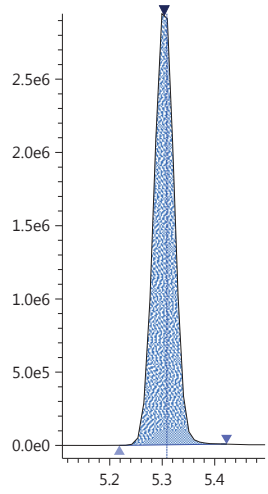
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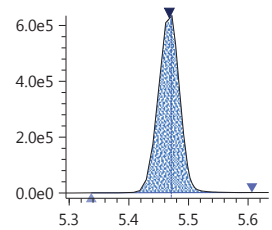
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Conc 4.8301
RT 5.304 Area 8282422
Q 614.80>569.95 (-) 2.95e6



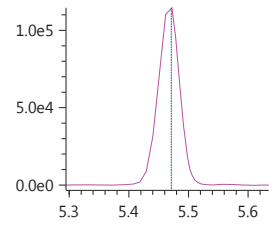
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Conc 5.0000
RT 5.304 Area 8282422
ISTD 614.80>569.95 (-) 2.95e6



PFTrDA
Conc 1.0416
RT 5.468 Area 1610475
R#1 18.07 (0.00)
Q 663.00>618.90 (-) 6.35e5



R1 662.90>169.00 (-) 1.15e5



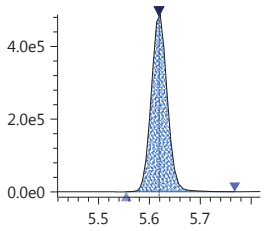
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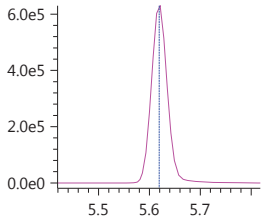
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Conc 0.9841
RT 5.619 Area 1074533
R#1 129.26 (0.00)

Q 713.40>669.00 (-) 4.88e5



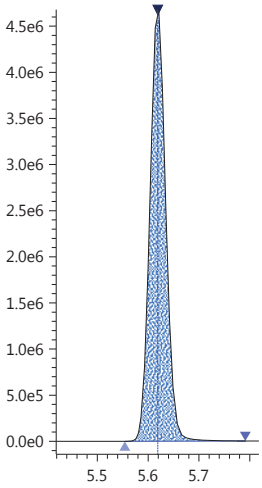
R1 713.40>169.10 (-) 6.30e5



PFTeDA-13C

Conc 4.6146
RT 5.619 Area 10203758

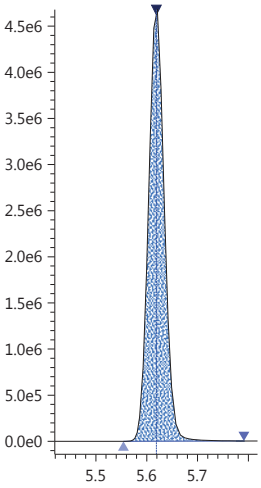
Q 714.70>669.90 (-) 4.68e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.619 Area 10203758

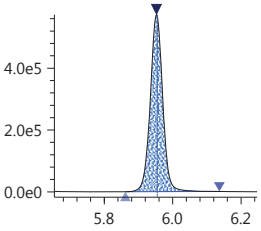
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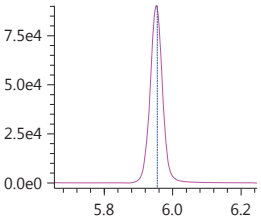
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Conc 0.9916
RT 5.953 Area 1444846
R#1 15.70 (0.00)

Q 813.00>769.05 (-) 5.73e5



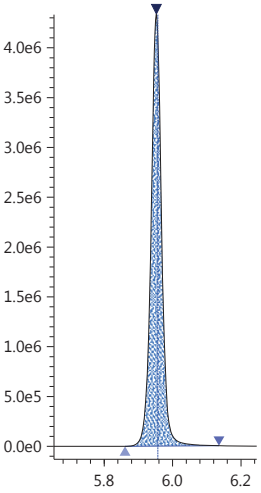
R1 813.00>218.95 (-) 9.03e4



13C-PFHxDA

Conc 4.5551
RT 5.952 Area 9286127

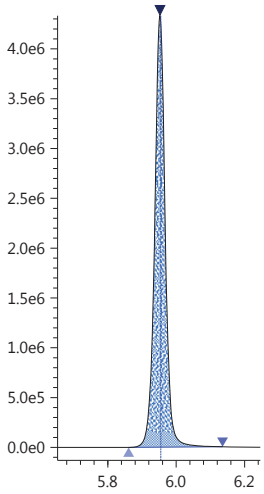
Q 815.00>770.05 (-) 4.33e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.952 Area 9286127

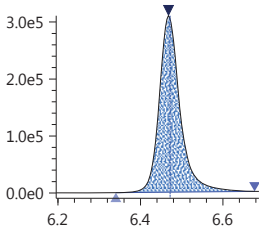
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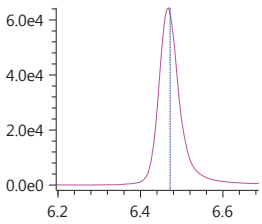
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Conc 1.0033
RT 6.468 Area 1088352
R#1 20.49 (0.00)

Q 913.00>868.85 (-) 3.11e5



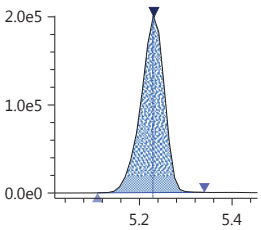
R1 913.00>169.00 (-) 6.44e4



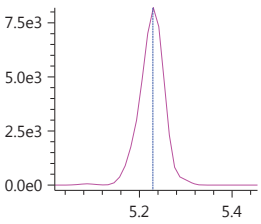
FOSA

Conc 1.0208
RT 5.231 Area 709554
R#1 4.07 (0.00)

Q 498.20>78.00 (-) 2.01e5



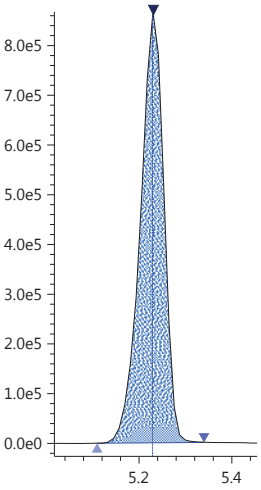
R1 498.20>64.10 (-) 8.20e3



FOSA-13C

Conc 4.6223
RT 5.231 Area 3066305

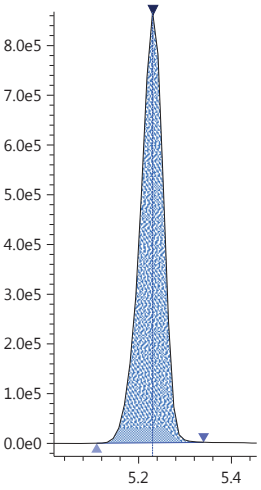
Q 506.00>78.05 (-) 8.68e5



FOSA-13C_IS

Conc 5.0000
RT 5.231 Area 3066305

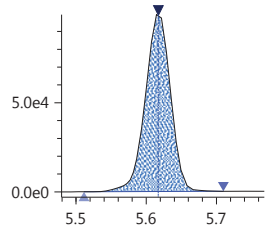
ISTD 506.00>78.05 (-) 8.68e5



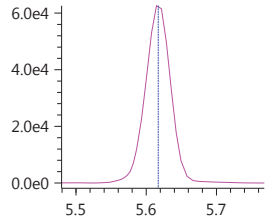
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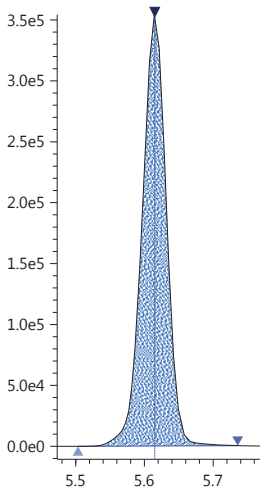
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Conc 0.9826
RT 5.617 Area 248658
R#1 62.94 (0.00)
Q 512.00>169.10 (-) 9.94e4



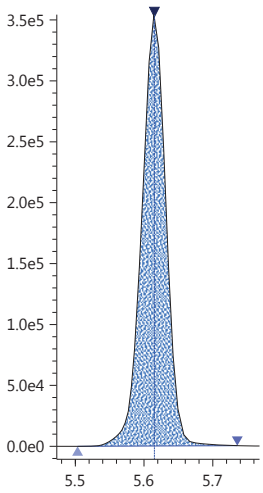
R1 512.00>219.00 (-) 6.26e4



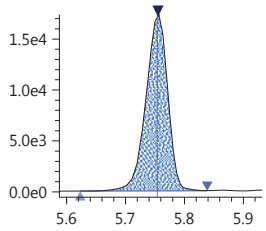
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Conc 4.4386
RT 5.615 Area 868753
Q 514.90>168.90 (-) 3.54e5



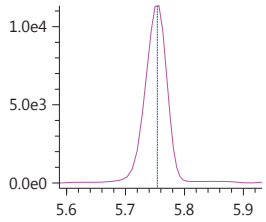
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RT 5.615 Area 868753
ISTD 514.90>168.90 (-) 3.54e5



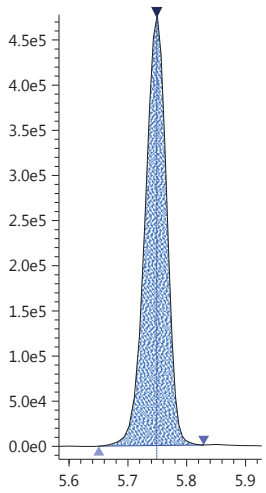
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Conc 1.0145
RT 5.755 Area 44372
R#1 65.05 (0.00)
Q 526.90>169.10 (-) 1.74e4



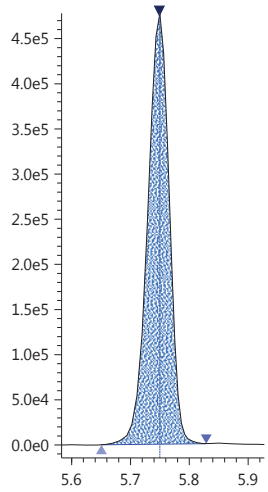
R1 526.90>219.00 (-) 1.13e4



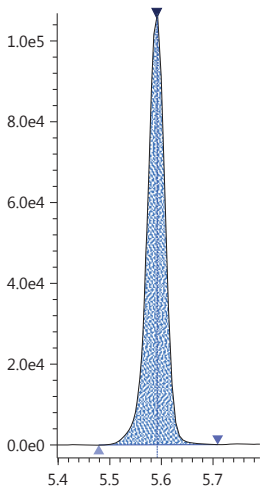
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Conc 4.3196
RT 5.749 Area 1218201
Q 530.90>169.15 (-) 4.78e5



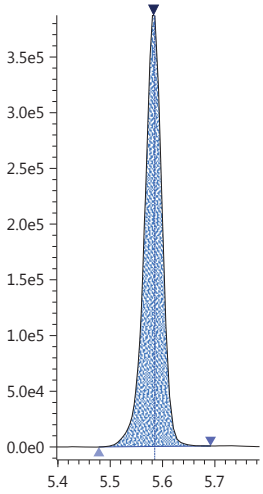
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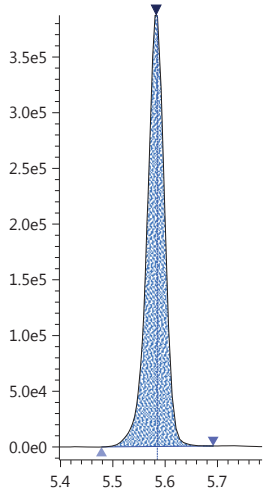
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RT 5.591 Area 260867
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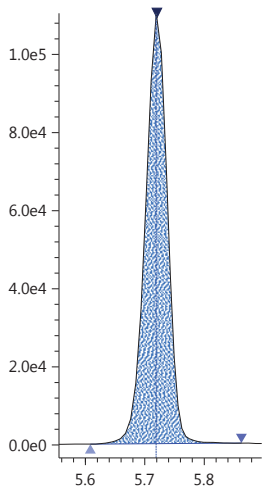
N-MeFOSE-d7
Conc 4.4711
RT 5.583 Area 919100
Q 622.70>59.10 (-) 3.87e5



N-MeFOSE-d7_IS
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RT 5.583 Area 919100
ISTD 622.70>59.10 (-) 3.87e5



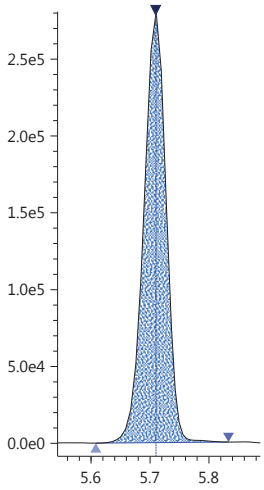
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RT 5.720 Area 285517
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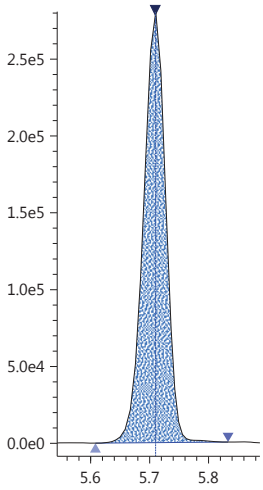
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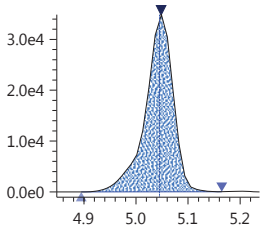
N-EtFOSE-d9
Conc 4.9620
RT 5.710 Area 738125
Q 638.70>59.10 (-) 2.81e5



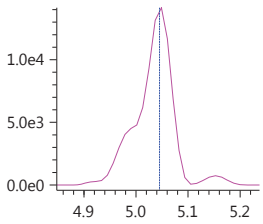
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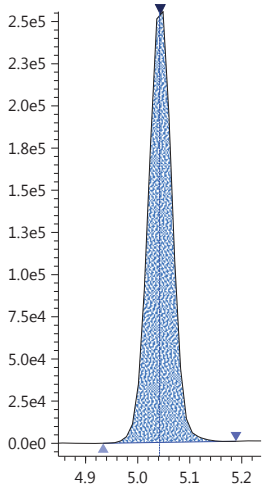
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Conc 0.9396
RT 5.048 Area 127766
R#1 39.48 (0.00)
Q 570.20>419.00 (-) 3.49e4



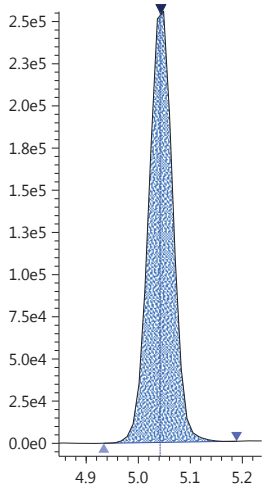
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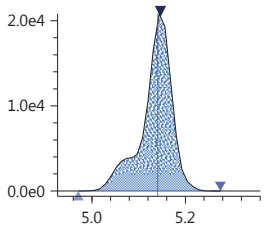
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RT 5.043 Area 833364
Q 572.80>419.05 (-) 2.56e5



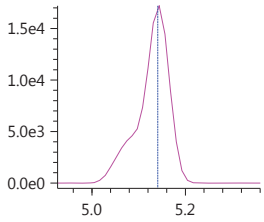
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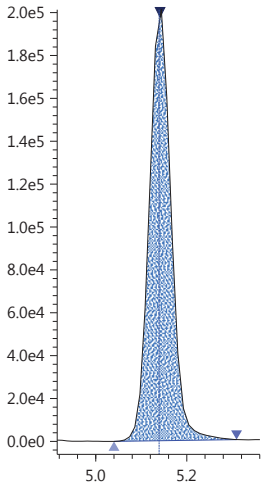
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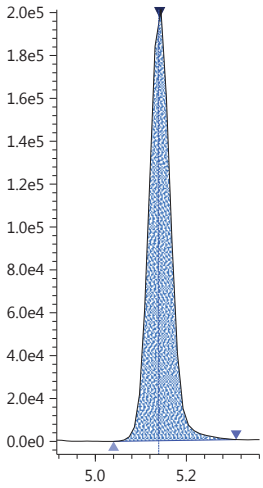
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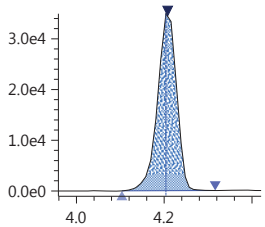
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RT 5.141 Area 670864
Q 588.80>419.00 (-) 2.01e5



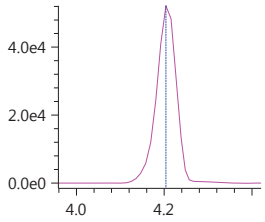
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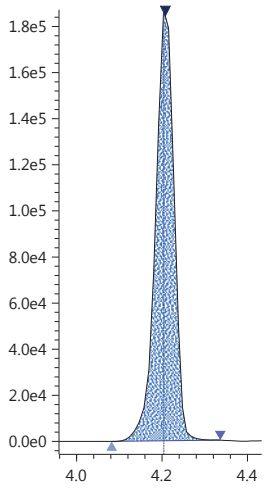
4_2-FTS_1
Conc 0.9932
RT 4.208 Area 105624
R#1 149.62 (0.00)
Q 327.00>307.05 (-) 3.49e4



R1 327.00>81.10 (-) 5.22e4



4_2-FTS-13C
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RT 4.208 Area 565615
Q 328.80>309.05 (-) 1.87e5

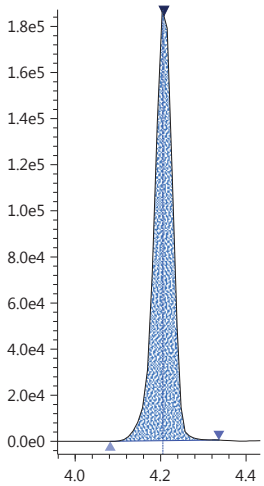


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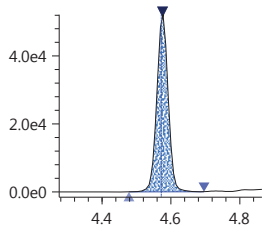
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Conc 5.0000
RT 4.208 Area 565615

ISTD 328.80>309.05 (-) 1.87e5

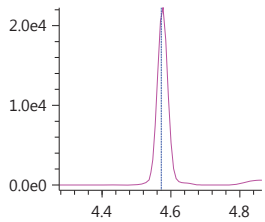


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Conc 1.0507
RT 4.576 Area 119547
R#1 42.48 (0.00)

Q 427.00>407.00 (-) 5.22e4

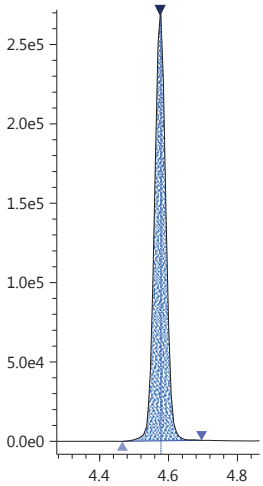


R1 427.00>80.90 (-) 2.23e4



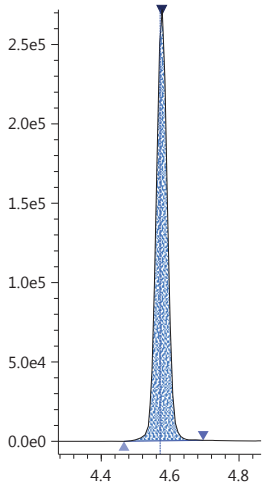
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Conc 4.4723
RT 4.576 Area 623979

Q 428.90>409.00 (-) 2.72e5



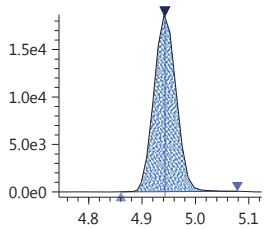
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Conc 5.0000
RT 4.576 Area 623979

ISTD 428.90>409.00 (-) 2.72e5

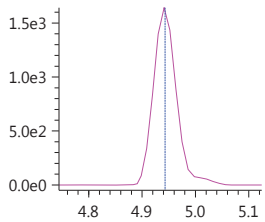


8_2-FTS_1
Conc 0.9828
RT 4.943 Area 54659
R#1 8.82 (0.00)

Q 527.10>506.90 (-) 1.87e4

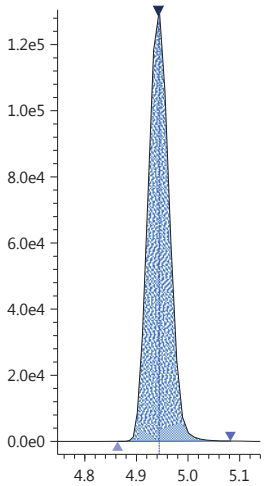


R1 527.20>487.00 (-) 1.64e3



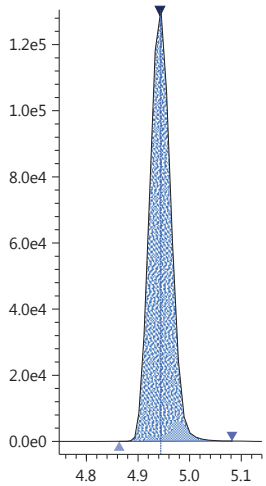
8_2-FTS-13C
Conc 4.3521
RT 4.942 Area 374630

Q 528.80>509.00 (-) 1.31e5



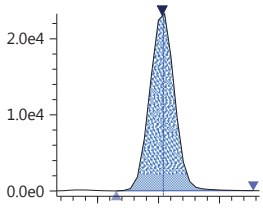
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RT 4.942 Area 374630

ISTD 528.80>509.00 (-) 1.31e5

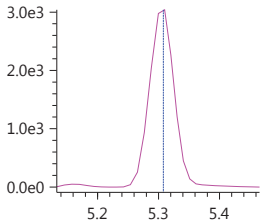


10_2-FtS_1
Conc 1.0987
RT 5.306 Area 66350
R#1 13.28 (0.00)

Q 627.00>606.95 (-) 2.33e4

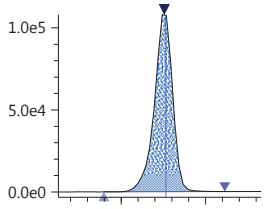


R1 627.00>81.25 (-) 3.04e3

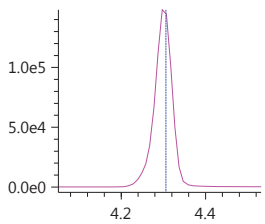


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Conc 0.9440
RT 4.302 Area 326790
R#1 136.87 (0.00)

Q 329.00>169.00 (-) 1.08e5

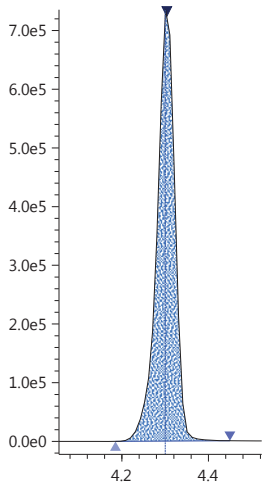


R1 329.00>285.10 (-) 1.48e5



HFPO_DA-13C
Conc 4.8088
RT 4.304 Area 2115056

Q 332.00>286.80 (-) 7.35e5

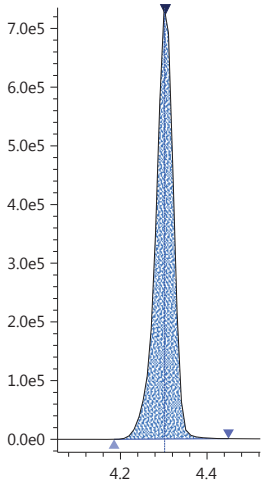


Insight Report

HFPO_DA-13C_IS

Conc 5.0000
RT 4.304 Area 2115056

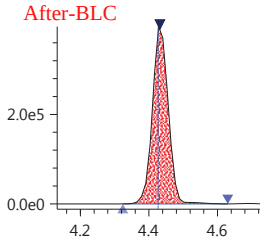
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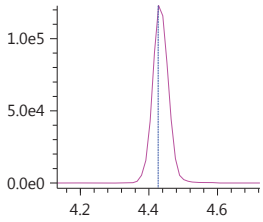
ADONA

Conc 1.0925
RT 4.432 Area 1273040
R#1 31.03 (0.00)

Q 377.00>251.00 (-) 3.96e5



R1 377.00>84.95 (-) 1.23e5



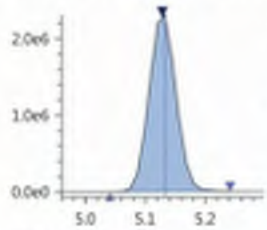
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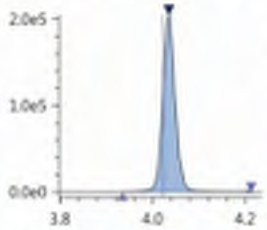
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Date acquired: 9/20/2019 5:06:39 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_016.lcd
Vial: 4 | Inj. Volume: 15.0000uL | Tray: 0

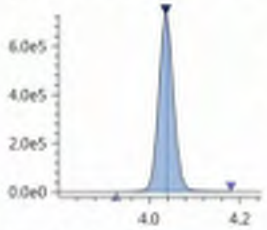
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RT 5.128 Area 7297389
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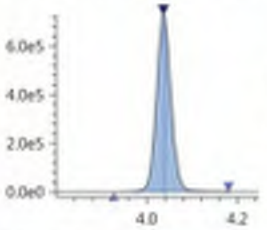
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Q 299.00>80.00 (-) 2.05e5



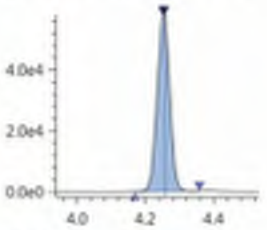
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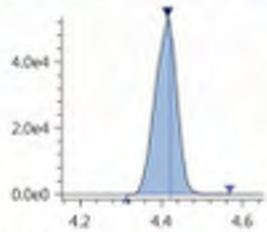
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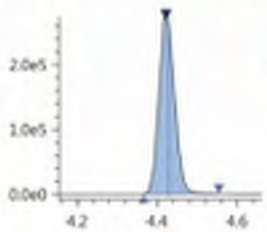
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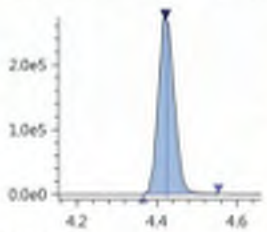
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Q 399.00>80.00 (-) 5.35e4



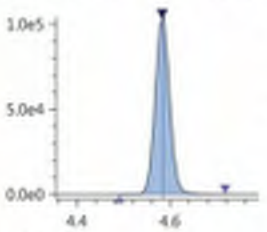
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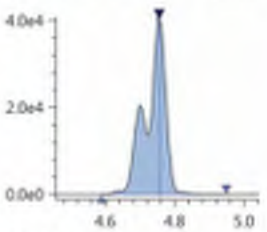
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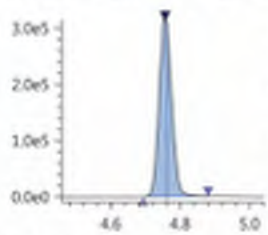
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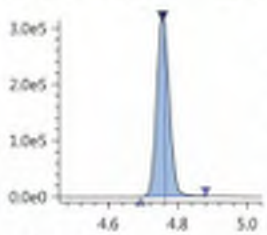
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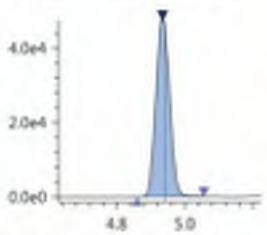
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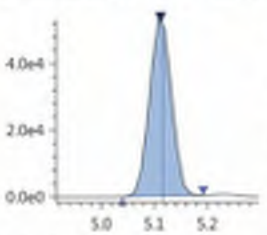
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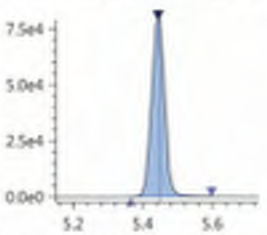
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RT 4.935 Area 133190
Q 549.00>99.00 (-) 4.77e4



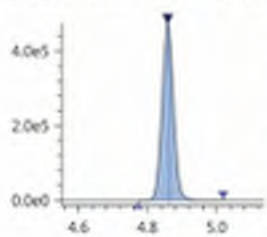
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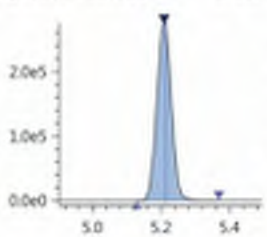
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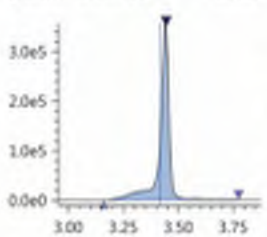
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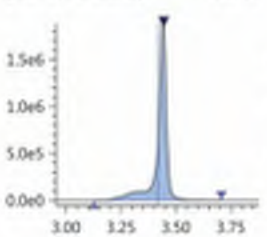
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RT 5.208 Area 823417
Q 631.00>451.05 (-) 2.75e5



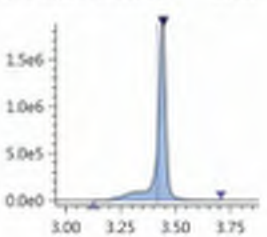
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Conc 0.7751
RT 3.444 Area 972132
Q 213.00>169.10 (-) 3.58e5



PFBA-13C
Conc 4.3812
RT 3.443 Area 5104677
Q 216.90>172.15 (-) 1.89e6



PFBA-13C_IS
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RT 3.443 Area 5104677
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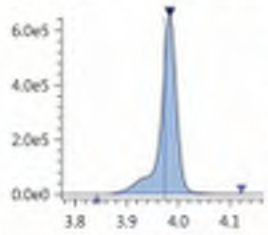
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Manual Integration - Before

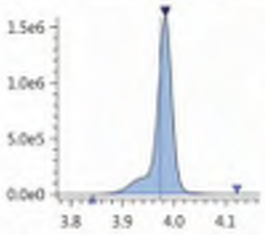
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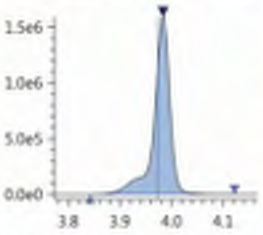
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Q 263.05>219.10 (-) 6.50e5



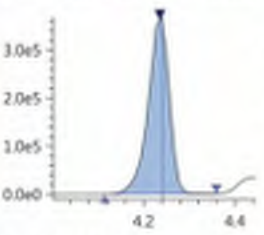
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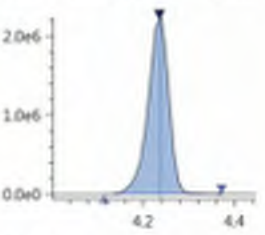
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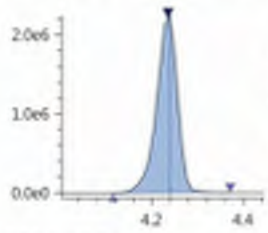
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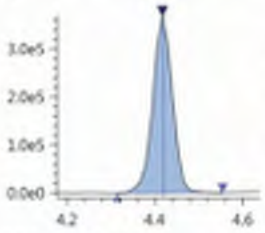
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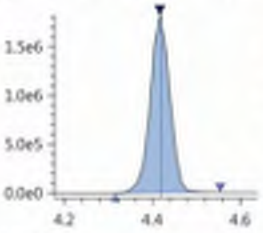
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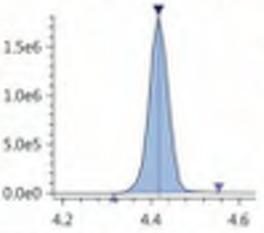
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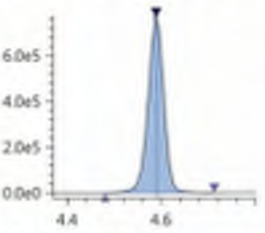
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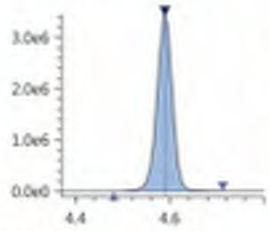
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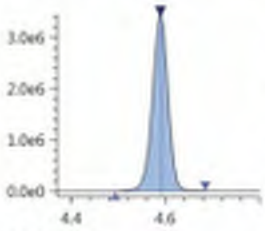
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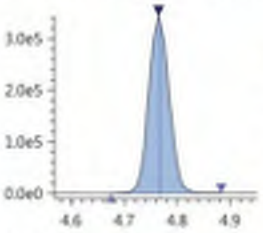
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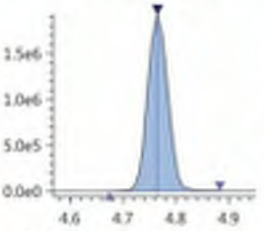
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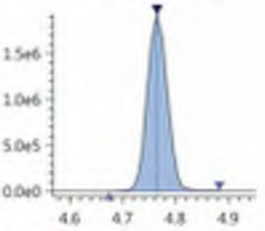
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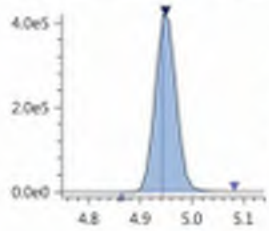
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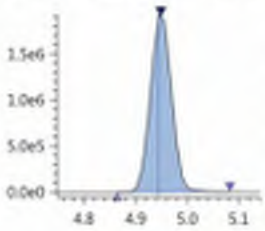
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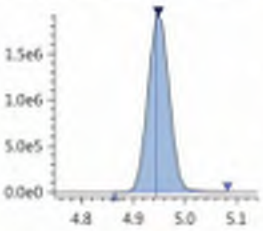
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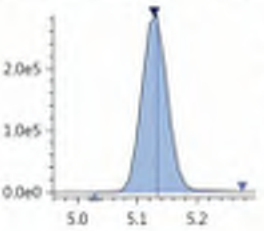
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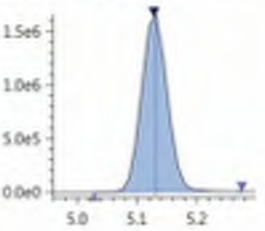
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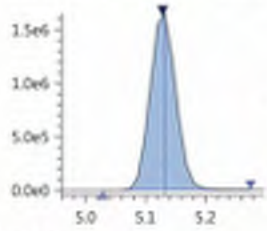
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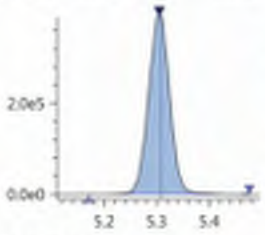
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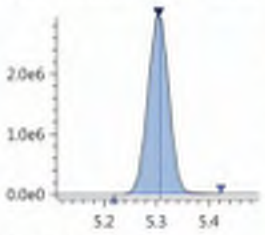
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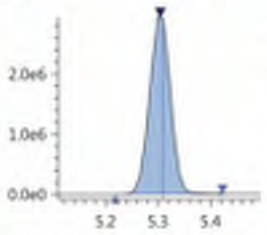
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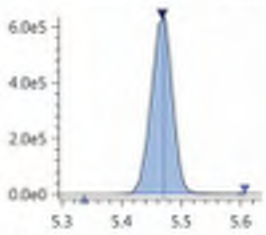
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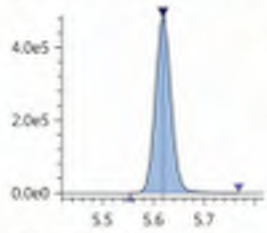
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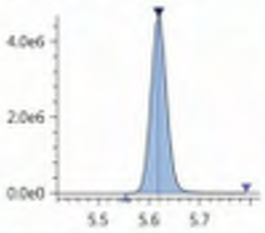
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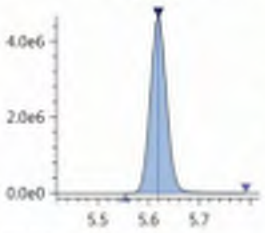
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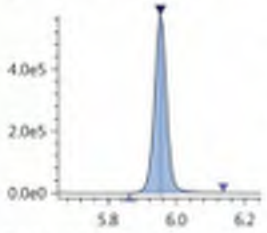
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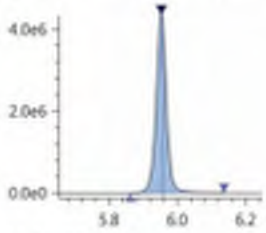
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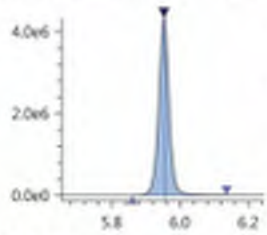
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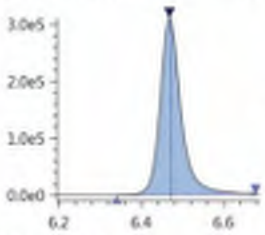
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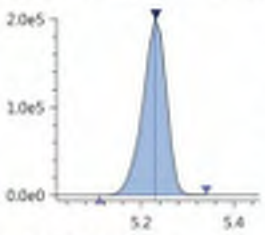
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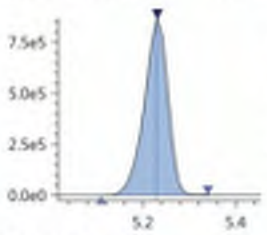
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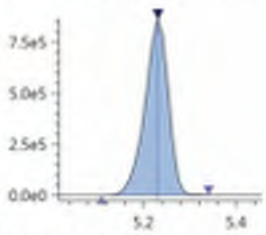
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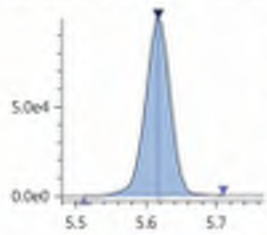
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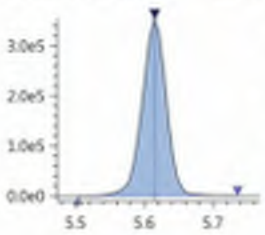
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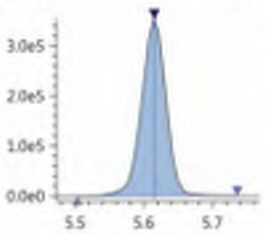
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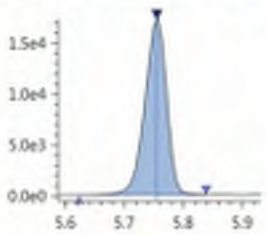
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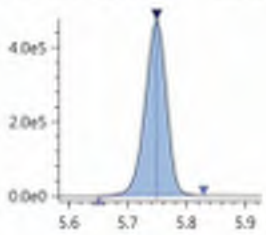
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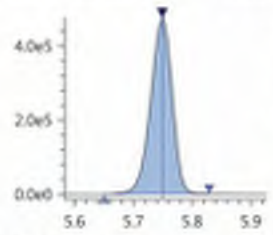
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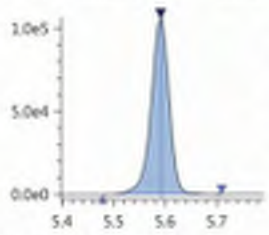
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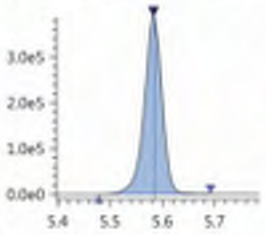
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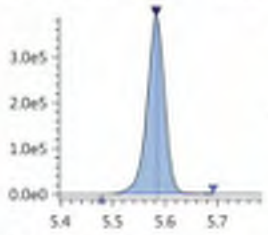
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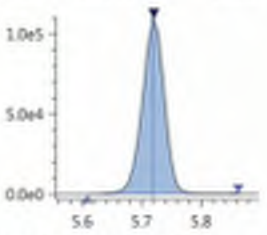
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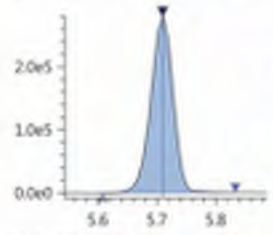
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RT 5.583 Area 919100
ISTD 622.70>59.10 (-) 3.87e5



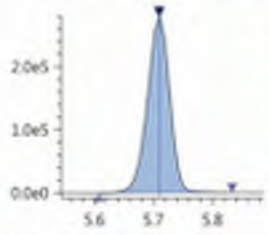
N-EtFOSE
Conc 0.9012
RT 5.720 Area 285517
Q 630.00>58.90 (-) 1.11e5



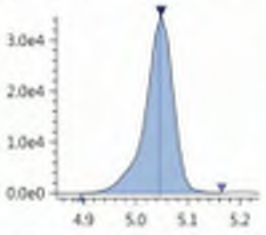
N-EtFOSE-d9
Conc 4.9620
RT 5.710 Area 738125
Q 638.70>59.10 (-) 2.81e5



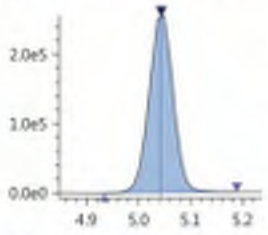
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.710 Area 738125
ISTD 638.70>59.10 (-) 2.81e5



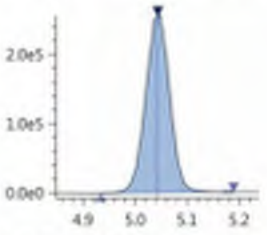
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RT 5.048 Area 127766
Q 570.20>419.00 (-) 3.49e4



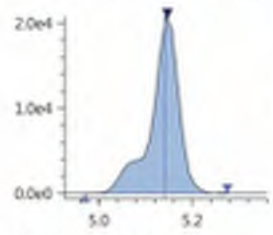
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Conc 4.3592
RT 5.043 Area 833364
Q 572.80>419.05 (-) 2.56e5



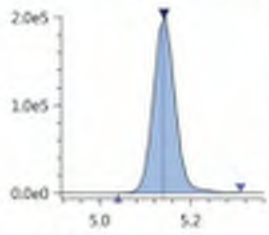
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Conc 5.0000
RT 5.043 Area 833364
ISTD 572.80>419.05 (-) 2.56e5



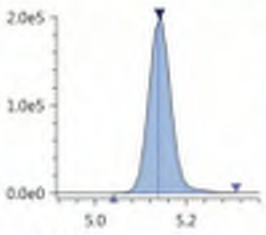
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Conc 1.0097
RT 5.147 Area 84819
Q 584.20>418.95 (-) 2.08e4



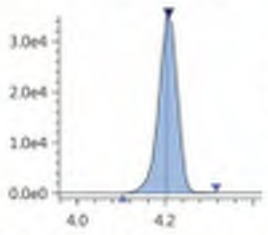
N-EtFOSAA-d5
Conc 4.3127
RT 5.141 Area 670864
Q 588.80>419.00 (-) 2.01e5



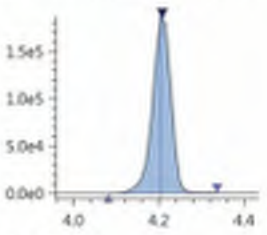
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Conc 5.0000
RT 5.141 Area 670864
ISTD 588.80>419.00 (-) 2.01e5



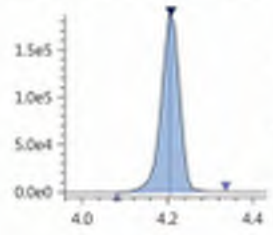
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Conc 0.9837
RT 4.208 Area 105624
Q 327.00>307.05 (-) 3.49e4



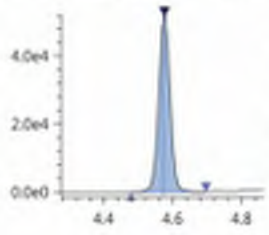
4_2-FTS-13C
Conc 4.3211
RT 4.208 Area 565615
Q 328.80>309.05 (-) 1.87e5



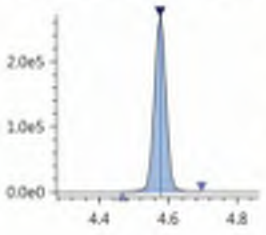
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RT 4.208 Area 565615
ISTD 328.80>309.05 (-) 1.87e5



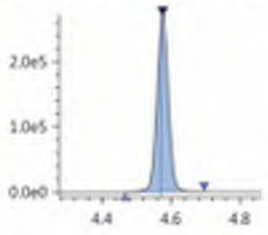
6_2-FTS_1
Conc 1.0311
RT 4.576 Area 119547
Q 427.00>407.00 (-) 5.22e4



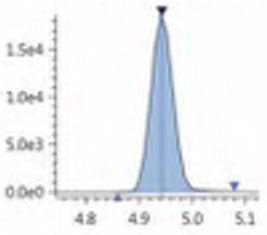
6_2-FTS-13C
Conc 4.4723
RT 4.576 Area 623979
Q 428.90>409.00 (-) 2.72e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.576 Area 623979
ISTD 428.90>409.00 (-) 2.72e5



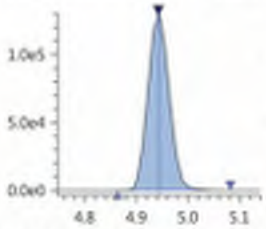
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Conc 0.9767
RT 4.943 Area 54659
Q 527.10>506.90 (-) 1.87e4



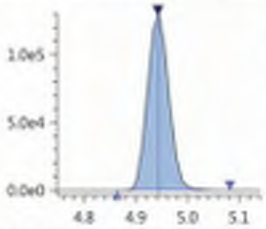
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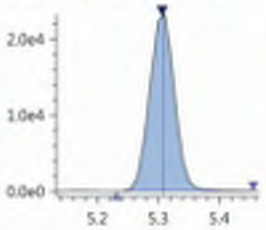
8_2-FTS-13C
Conc 4.3521
RT 4.942 Area 374630
Q 528.80>509.00 (-) 1.31e5



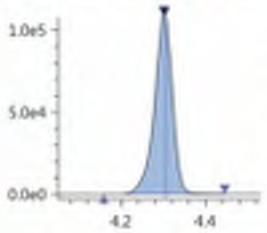
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Conc 5.0000
RT 4.942 Area 374630
ISTD 528.80>509.00 (-) 1.31e5



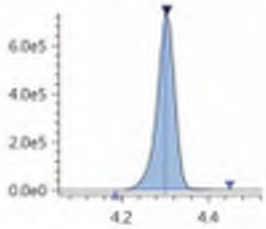
10_2-FtS_1
Conc 1.1047
RT 5.306 Area 66350
Q 627.00>606.95 (-) 2.33e4



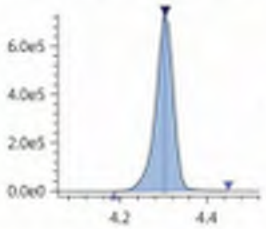
HPFO_DA
Conc 1.1148
RT 4.302 Area 326790
Q 329.00>169.00 (-) 1.08e5



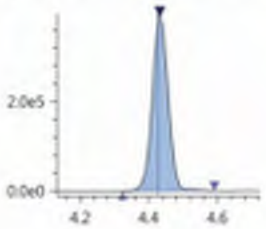
HFPO_DA-13C
Conc 4.8088
RT 4.304 Area 2115056
Q 332.00>286.80 (-) 7.35e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.304 Area 2115056
ISTD 332.00>286.80 (-) 7.35e5



ADONA
Conc 1.0931
RT 4.432 Area 1268352
Q 377.00>251.00 (-) 3.96e5



Insight Report

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190920_017

Sample ID: 1.0 PPB ICV
Date acquired: 9/20/2019 5:17:44 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_017.lcd
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.130	6683273	6683273	1	5.0000	ng/mL	5.0000
PFBS_1	Auto	4.036	393919	1647489	2	0.9002	ng/mL	0.8874
PFBS-13C	Auto	4.037	1647489	6683273	1	5.0501	ng/mL	5.0000
PFBS-13C_IS	Auto	4.037	1647489	1647489	2	5.0000	ng/mL	5.0000
PFPeS	Auto	4.254	144336	1647489	2	1.0385	ng/mL	0.9409
PFHxS_1	M	4.419	216327	860164	3	0.9002	ng/mL	0.9131
PFHxS-18O	Auto	4.422	860164	6683273	1	4.7242	ng/mL	5.0000
PFHxS-18O_IS	Auto	4.422	860164	860164	3	5.0000	ng/mL	5.0000
PFHpS_1	Auto	4.584	221456	860164	3	1.0209	ng/mL	0.9534
PFOS_1	Auto	4.757	191580	956377	4	0.9579	ng/mL	0.9292
PFOS-13C	Auto	4.757	956377	6683273	1	5.2691	ng/mL	5.0000
PFOS-13C_IS	Auto	4.757	956377	956377	4	5.0000	ng/mL	5.0000
PFNS	M	4.935	157179	956377	4	1.1967	ng/mL	0.9616
PFDS_1	M	5.113	216256	956377	4	1.1824	ng/mL	0.9647
PFDOS	Auto	5.445	205454	956377	4	0.9924	ng/mL	0.9696
9Cl-PF3ONS	Auto	4.860	1320124	956377	4	0.9335	ng/mL	0.9332
11Cl-PF3OUdS	Auto	5.209	1052887	956377	4	1.2382	ng/mL	0.9432
PFBA	Auto	3.444	1013452	5312732	5	1.0037	ng/mL	1.0000
PFBA-13C	Auto	3.443	5312732	6683273	1	4.9788	ng/mL	5.0000
PFBA-13C_IS	Auto	3.443	5312732	5312732	5	5.0000	ng/mL	5.0000
PFPeA	Auto	3.984	1459545	3444860	6	1.0140	ng/mL	1.0000
PFPeA-13C	Auto	3.984	3444860	6683273	1	4.9286	ng/mL	5.0000
PFPeA-13C_IS	Auto	3.984	3444860	3444860	6	5.0000	ng/mL	5.0000
PFHxA	Auto	4.237	1241184	7225368	7	0.9939	ng/mL	1.0000
PFHxA-13C	Auto	4.237	7225368	6683273	1	4.4811	ng/mL	5.0000
PFHxA-13C_IS	Auto	4.237	7225368	7225368	7	5.0000	ng/mL	5.0000
PFHpA	Auto	4.419	1132578	6205116	8	0.9022	ng/mL	1.0000
PFHpA-13C	Auto	4.419	6205116	6683273	1	4.5516	ng/mL	5.0000
PFHpA-13C_IS	Auto	4.419	6205116	6205116	8	5.0000	ng/mL	5.0000
PFOA	Auto	4.590	2102788	8998053	9	0.9889	ng/mL	1.0000
PFOA-13C	Auto	4.590	8998053	6683273	1	5.5948	ng/mL	5.0000
PFOA-13C_IS	Auto	4.590	8998053	8998053	9	5.0000	ng/mL	5.0000
PFNA	M	4.767	1051362	6093414	10	0.9814	ng/mL	1.0000
PFNA-13C	Auto	4.767	6093414	6683273	1	4.9863	ng/mL	5.0000
PFNA-13C_IS	Auto	4.767	6093414	6093414	10	5.0000	ng/mL	5.0000
PFDA	Auto	4.950	1385870	5942374	11	1.0825	ng/mL	1.0000
PFDA-13C	Auto	4.949	5942374	6683273	1	5.5023	ng/mL	5.0000
PFDA-13C_IS	Auto	4.949	5942374	5942374	11	5.0000	ng/mL	5.0000
PFUnA	Auto	5.130	870971	4893112	12	1.0060	ng/mL	1.0000
PFUnA-13C	Auto	5.130	4893112	6683273	1	5.1168	ng/mL	5.0000
PFUnA-13C_IS	Auto	5.130	4893112	4893112	12	5.0000	ng/mL	5.0000
PFDoA	Auto	5.305	1243298	8760449	13	1.0864	ng/mL	1.0000
PFDoA-13C	Auto	5.305	8760449	6683273	1	5.5783	ng/mL	5.0000
PFDoA-13C_IS	Auto	5.305	8760449	8760449	13	5.0000	ng/mL	5.0000
PFTrDA	Auto	5.469	1657837	10187522	14	1.0743	ng/mL	1.0000
PFTeDA	Auto	5.620	1075546	10187522	14	0.9870	ng/mL	1.0000
PFTeDA-13C	Auto	5.620	10187522	6683273	1	5.0306	ng/mL	5.0000
PFTeDA-13C_IS	Auto	5.620	10187522	10187522	14	5.0000	ng/mL	5.0000
PFHxDA	Auto	5.956	1604812	9732712	15	1.0547	ng/mL	1.0000
13C-PFHxDA	Auto	5.955	9732712	6683273	1	5.2129	ng/mL	5.0000
13C-PFHxDA_IS	Auto	5.955	9732712	9732712	15	5.0000	ng/mL	5.0000
PFODA	Auto	6.473	1145452	9732712	15	1.0075	ng/mL	1.0000
FOSA	Auto	5.231	692059	3163732	16	0.9650	ng/mL	1.0000
FOSA-13C	Auto	5.231	3163732	6683273	1	5.2075	ng/mL	5.0000
FOSA-13C_IS	Auto	5.231	3163732	3163732	16	5.0000	ng/mL	5.0000
N-MeFOSA	Auto	5.619	246100	945111	17	0.8939	ng/mL	1.0000
N-MeFOSA-d3	Auto	5.616	945111	6683273	1	5.2724	ng/mL	5.0000
N-MeFOSA-d3_IS	Auto	5.616	945111	945111	17	5.0000	ng/mL	5.0000
N-EtFOSA	Auto	5.757	48324	1294267	18	1.0399	ng/mL	1.0000
N-EtFOSA-d9	Auto	5.751	1294267	6683273	1	5.0110	ng/mL	5.0000
N-EtFOSA-d9_IS	Auto	5.751	1294267	1294267	18	5.0000	ng/mL	5.0000
N-MeFOSE	Auto	5.593	287626	943459	19	1.0207	ng/mL	1.0000
N-MeFOSE-d7	Auto	5.585	943459	6683273	1	5.0113	ng/mL	5.0000
N-MeFOSE-d7_IS	Auto	5.585	943459	943459	19	5.0000	ng/mL	5.0000
N-EtFOSE	Auto	5.722	301378	770587	20	0.9133	ng/mL	1.0000
N-EtFOSE-d9	Auto	5.712	770587	6683273	1	5.6563	ng/mL	5.0000
N-EtFOSE-d9_IS	Auto	5.712	770587	770587	20	5.0000	ng/mL	5.0000
N-MeFOSAA	Auto	5.047	154256	857261	21	1.1027	ng/mL	1.0000

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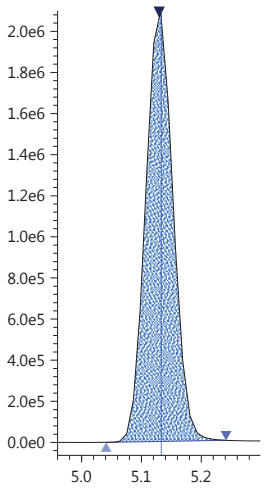
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.044	857261	6683273	1	4.8962	ng/mL	5.0000
N-MeFOSAA-d3_IS	Auto	5.044	857261	857261	21	5.0000	ng/mL	5.0000
N-EtFOSAA	Auto	5.149	110321	705310	22	1.2655	ng/mL	1.0000
N-EtFOSAA-d5	Auto	5.142	705310	6683273	1	4.9508	ng/mL	5.0000
N-EtFOSAA-d5_IS	Auto	5.142	705310	705310	22	5.0000	ng/mL	5.0000
4_2-FTS_1	Auto	4.209	112471	658915	23	0.9078	ng/mL	0.9372
4_2-FTS-13C	Auto	4.209	658915	6683273	1	5.4964	ng/mL	5.0000
4_2-FTS-13C_IS	Auto	4.209	658915	658915	23	5.0000	ng/mL	5.0000
6_2-FTS_1	M	4.577	128432	622316	24	1.1319	ng/mL	0.9512
6_2-FTS-13C	Auto	4.578	622316	6683273	1	4.8702	ng/mL	5.0000
6_2-FTS-13C_IS	Auto	4.578	622316	622316	24	5.0000	ng/mL	5.0000
8_2-FTS_1	Auto	4.944	66712	390898	25	1.1496	ng/mL	0.9600
8_2-FTS-13C	Auto	4.944	390898	6683273	1	4.9584	ng/mL	5.0000
8_2-FTS-13C_IS	Auto	4.944	390898	390898	25	5.0000	ng/mL	5.0000
10_2-FtS_1	Auto	5.307	63650	390898	25	1.0101	ng/mL	0.9662
HPFO_DA	Auto	4.303	306474	2299663	26	0.8040	ng/mL	1.0000
HFPO_DA-13C	Auto	4.304	2299663	6683273	1	5.7089	ng/mL	5.0000
HFPO_DA-13C_IS	Auto	4.304	2299663	2299663	26	5.0000	ng/mL	5.0000
ADONA	Auto	4.432	1068442	2299663	26	0.8433	ng/mL	0.9451

13C7-PFUnDA_IS

Conc 5.0000
RT 5.130 Area 6683273

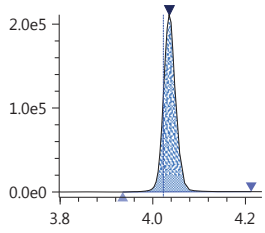
ISTD 570.00>525.00 (-) 2.10e6



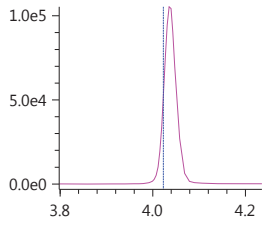
PFBS_1

Conc 0.9002
RT 4.036 Area 393919
R#1 50.14 (0.00)

Q 299.00>80.00 (-) 2.11e5



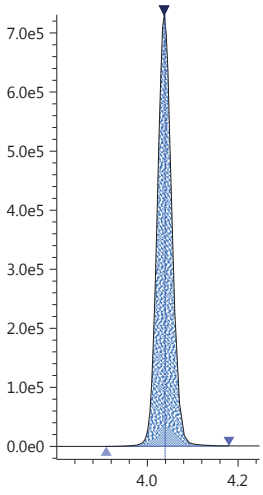
R1 298.80>99.00 (-) 1.05e5



PFBS-13C

Conc 5.0501
RT 4.037 Area 1647489

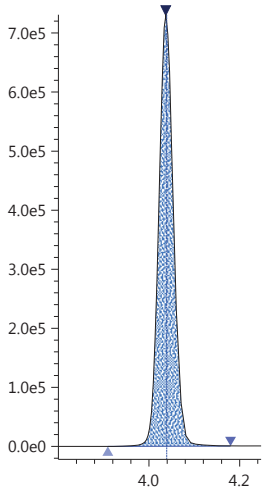
Q 301.80>80.00 (-) 7.31e5



PFBS-13C_IS

Conc 5.0000
RT 4.037 Area 1647489

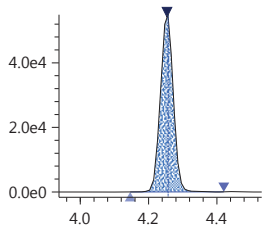
ISTD 301.80>80.00 (-) 7.31e5



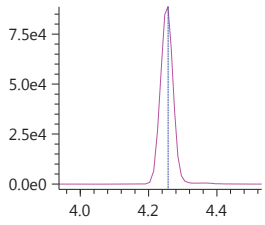
PFPeS

Conc 1.0385
RT 4.254 Area 144336
R#1 163.16 (0.00)

Q 349.00>99.00 (-) 5.49e4



R1 349.00>79.95 (-) 8.87e4



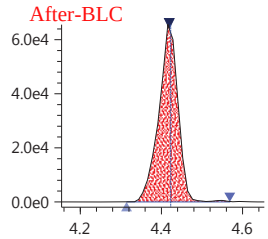
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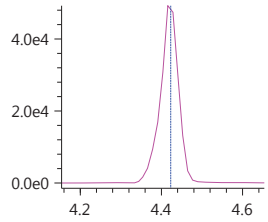
PFHxS_1

Conc 0.9002
RT 4.419 Area 216327
R#1 74.13 (0.00)

Q 399.00>80.00 (-) 6.56e4



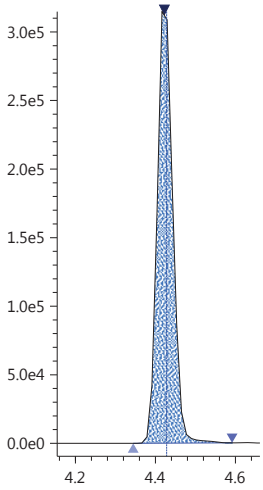
R1 399.00>99.00 (-) 4.93e4



PFHxS-18O

Conc 4.7242
RT 4.422 Area 860164

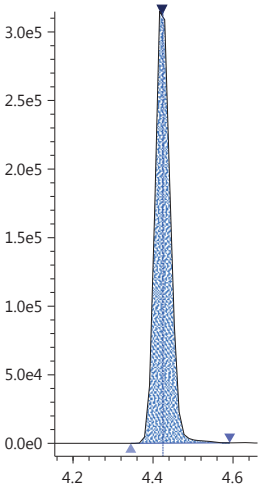
Q 402.70>84.05 (-) 3.15e5



PFHxS-18O_IS

Conc 5.0000
RT 4.422 Area 860164

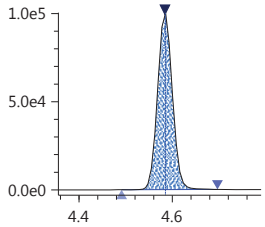
ISTD 402.70>84.05 (-) 3.15e5



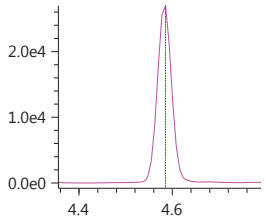
PFHpS_1

Conc 1.0209
RT 4.584 Area 221456
R#1 26.76 (0.00)

Q 449.00>80.15 (-) 1.01e5



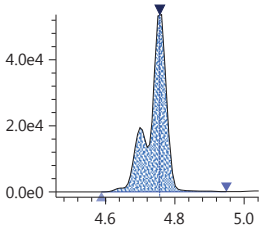
R1 449.00>99.20 (-) 2.70e4



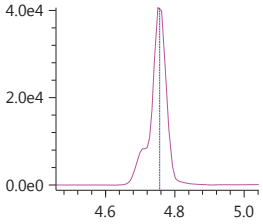
PFOS_1

Conc 0.9579
RT 4.757 Area 191580
R#1 76.25 (0.00)

Q 499.00>80.00 (-) 5.37e4



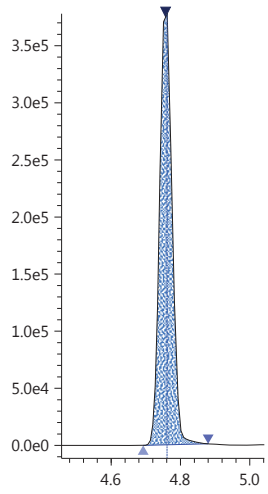
R1 499.00>99.00 (-) 4.06e4



PFOS-13C

Conc 5.2691
RT 4.757 Area 956377

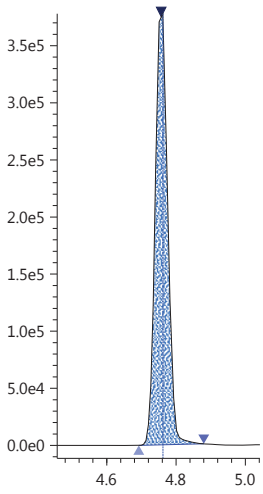
Q 502.80>80.05 (-) 3.78e5



PFOS-13C_IS

Conc 5.0000
RT 4.757 Area 956377

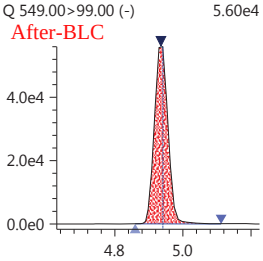
ISTD 502.80>80.05 (-) 3.78e5



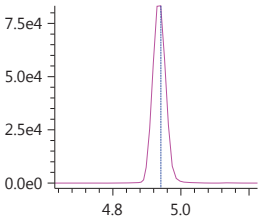
PFNS

Conc 1.1967
RT 4.935 Area 157179
R#1 148.83 (0.00)

Q 549.00>99.00 (-) 5.60e4



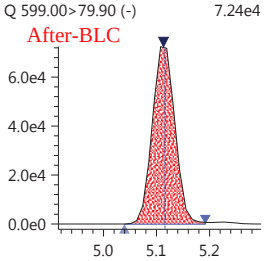
R1 549.00>79.95 (-) 8.33e4



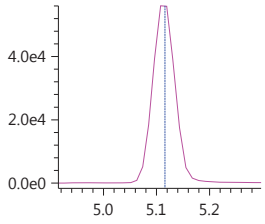
PFDS_1

Conc 1.1824
RT 5.113 Area 216256
R#1 77.74 (0.00)

Q 599.00>79.90 (-) 7.24e4



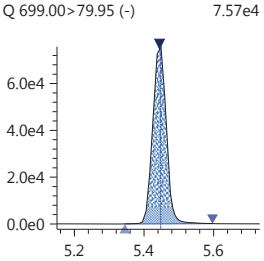
R1 599.00>99.10 (-) 5.61e4



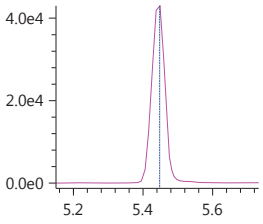
PFDOS

Conc 0.9924
RT 5.445 Area 205454
R#1 56.72 (0.00)

Q 699.00>79.95 (-) 7.57e4



R1 699.00>99.05 (-) 4.30e4



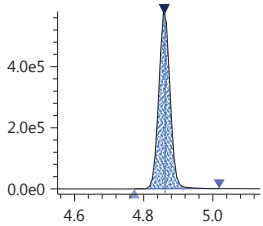
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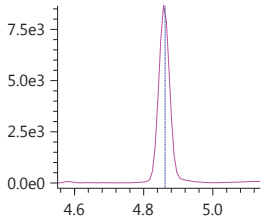
9Cl-PF3ONS

Conc 0.9335
RT 4.860 Area 1320124
R#1 1.49 (0.00)

Q 531.00>351.00 (-) 5.80e5



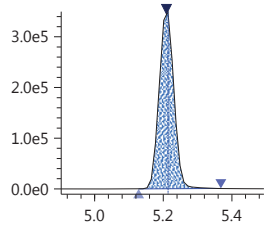
R1 531.00>98.90 (-) 8.65e3



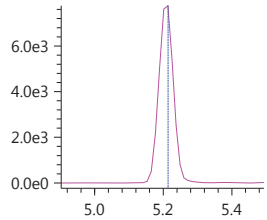
11Cl-PF3OUdS

Conc 1.2382
RT 5.209 Area 1052887
R#1 2.28 (0.00)

Q 631.00>451.05 (-) 3.50e5



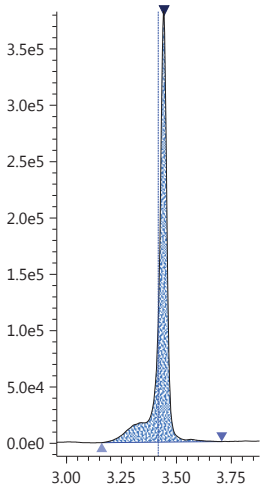
R1 631.00>98.90 (-) 7.76e3



PFBA

Conc 1.0037
RT 3.444 Area 1013452

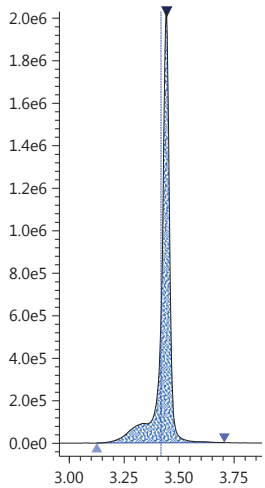
Q 213.00>169.10 (-) 3.83e5



PFBA-13C

Conc 4.9788
RT 3.443 Area 5312732

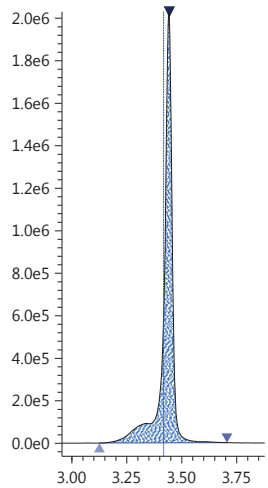
Q 216.90>172.15 (-) 2.03e6



PFBA-13C_IS

Conc 5.0000
RT 3.443 Area 5312732

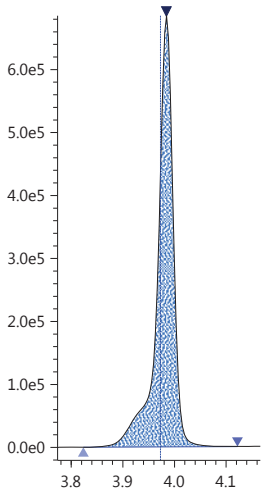
ISTD 216.90>172.15 (-) 2.03e6



PFPeA

Conc 1.0140
RT 3.984 Area 1459545

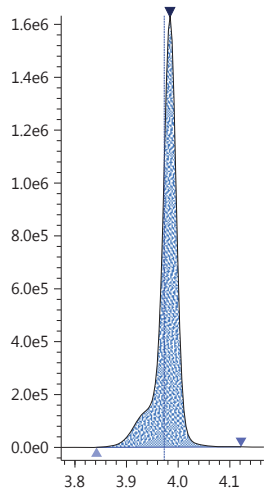
Q 263.05>219.10 (-) 6.86e5



PFPeA-13C

Conc 4.9286
RT 3.984 Area 3444860

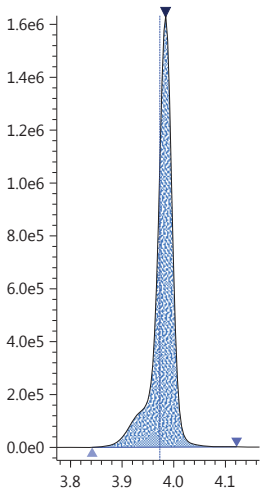
Q 267.90>223.00 (-) 1.63e6



PFPeA-13C_IS

Conc 5.0000
RT 3.984 Area 3444860

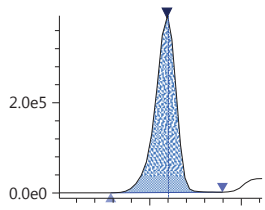
ISTD 267.90>223.00 (-) 1.63e6



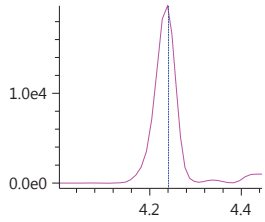
PFHxA

Conc 0.9939
RT 4.237 Area 1241184
R#1 5.05 (0.00)

Q 313.00>269.00 (-) 3.93e5



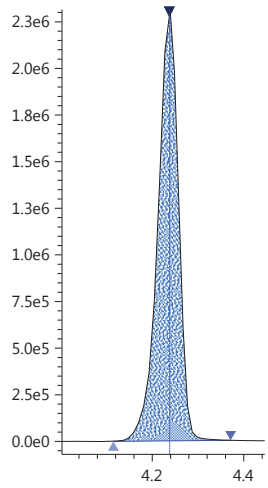
R1 313.00>119.10 (-) 1.98e4



PFHxA-13C

Conc 4.4811
RT 4.237 Area 7225368

Q 314.90>270.10 (-) 2.31e6



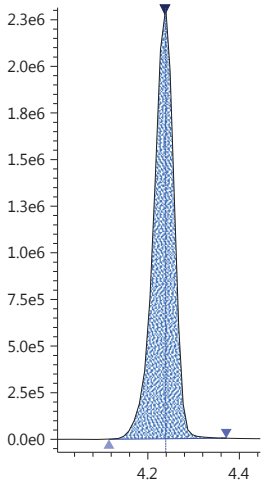
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Conc 5.0000
RT 4.237 Area 7225368

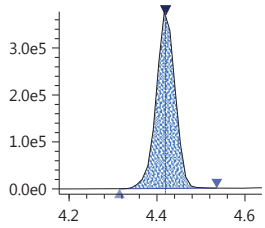
ISTD 314.90>270.10 (-) 2.31e6



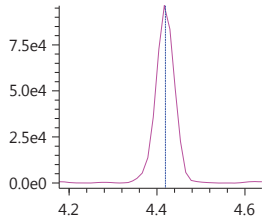
PFHpA

Conc 0.9022
RT 4.419 Area 1132578
R#1 25.68 (0.00)

Q 362.90>319.00 (-) 3.78e5



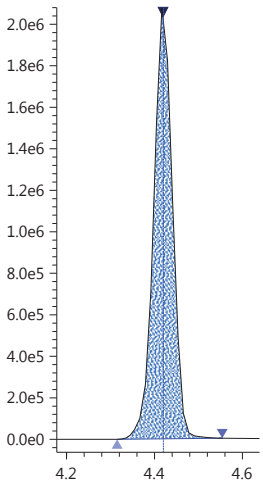
R1 362.90>169.00 (-) 9.63e4



PFHpA-13C

Conc 4.5516
RT 4.419 Area 6205116

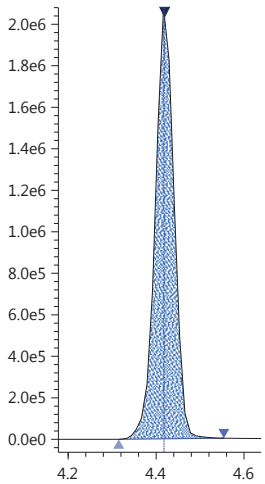
Q 366.90>322.10 (-) 2.08e6



PFHpA-13C_IS

Conc 5.0000
RT 4.419 Area 6205116

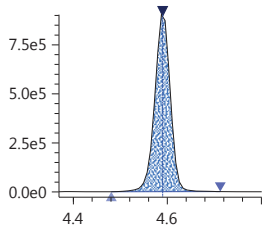
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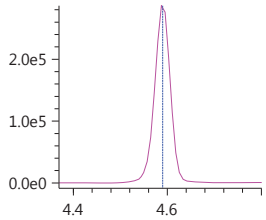
PFOA

Conc 0.9889
RT 4.590 Area 2102788
R#1 31.70 (0.00)

Q 413.00>369.00 (-) 9.04e5



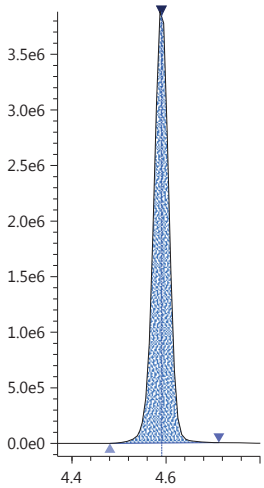
R1 413.00>169.10 (-) 2.87e5



PFOA-13C

Conc 5.5948
RT 4.590 Area 8998053

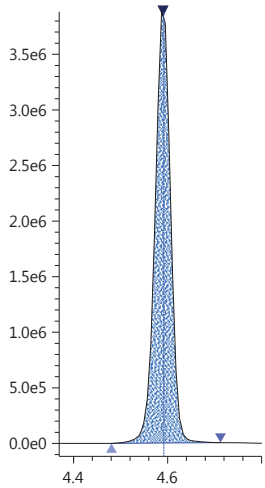
Q 416.80>372.05 (-) 3.88e6



PFOA-13C_IS

Conc 5.0000
RT 4.590 Area 8998053

ISTD 416.80>372.05 (-) 3.88e6

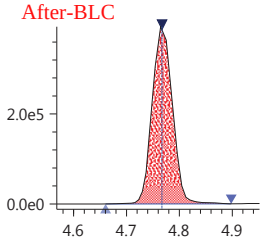


PFNA

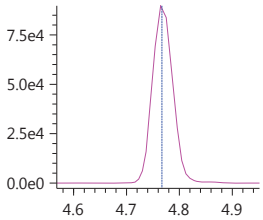
Conc 0.9814
RT 4.767 Area 1051362
R#1 22.78 (0.00)

Q 463.00>418.90 (-) 3.94e5

After-BLC



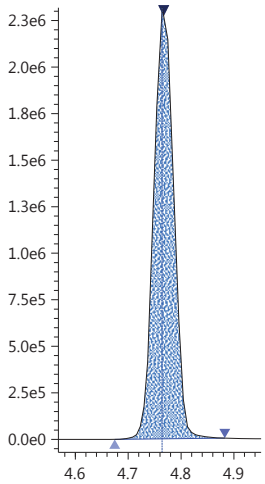
R1 463.00>219.00 (-) 8.97e4



PFNA-13C

Conc 4.9863
RT 4.767 Area 6093414

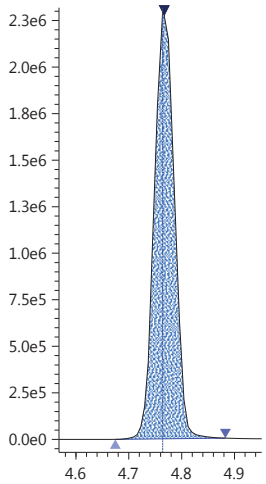
Q 467.80>423.00 (-) 2.32e6



PFNA-13C_IS

Conc 5.0000
RT 4.767 Area 6093414

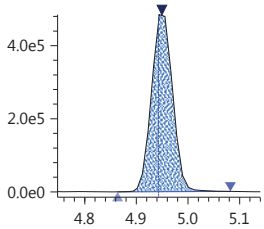
ISTD 467.80>423.00 (-) 2.32e6



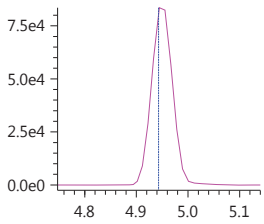
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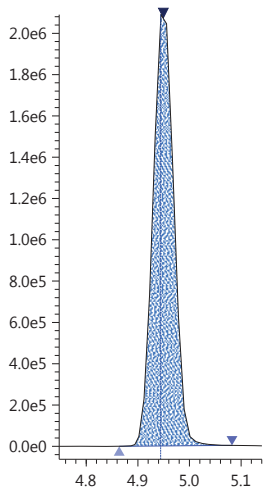
PFDA
Conc 1.0825
RT 4.950 Area 1385870
R#1 17.20 (0.00)
Q 513.00>468.80 (-) 4.85e5



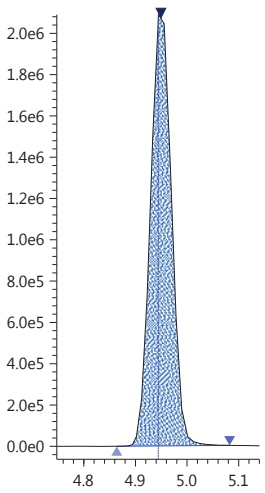
R1 513.00>219.10 (-) 8.35e4



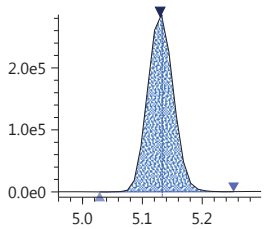
PFDA-13C
Conc 5.5023
RT 4.949 Area 5942374
Q 514.80>469.95 (-) 2.09e6



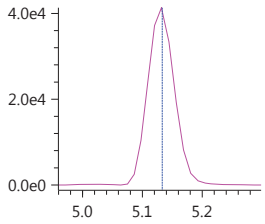
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Conc 5.0000
RT 4.949 Area 5942374
ISTD 514.80>469.95 (-) 2.09e6



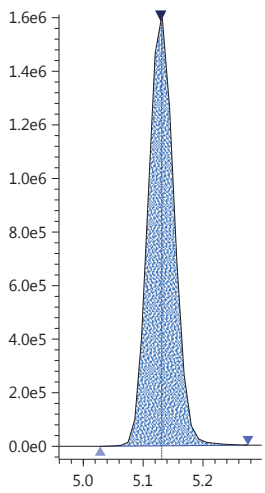
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Conc 1.0060
RT 5.130 Area 870971
R#1 14.46 (0.00)
Q 563.00>518.90 (-) 2.86e5



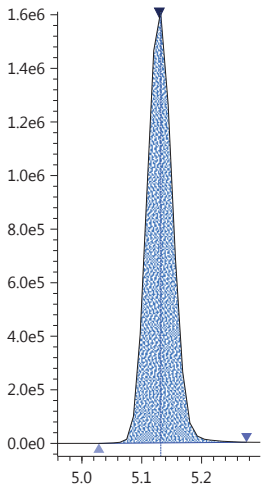
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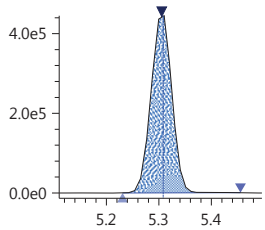
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Conc 5.1168
RT 5.130 Area 4893112
Q 564.80>519.95 (-) 1.61e6



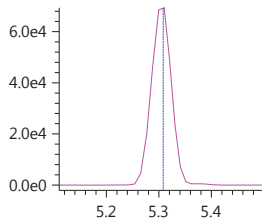
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ISTD 564.80>519.95 (-) 1.61e6



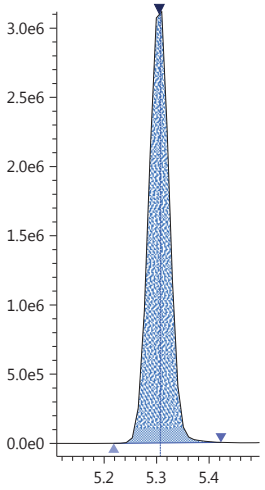
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Q 613.05>569.00 (-) 4.45e5



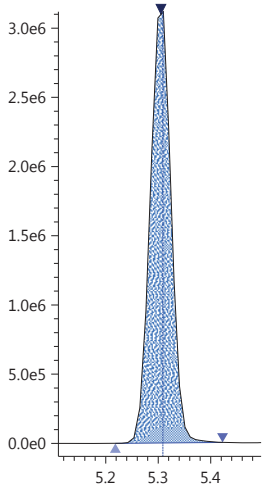
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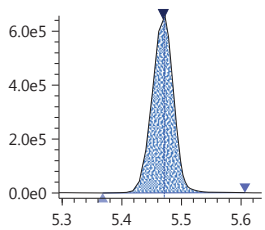
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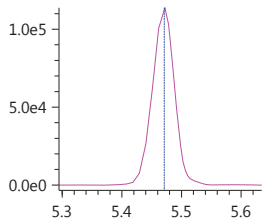
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ISTD 614.80>569.95 (-) 3.12e6



PFTrDA
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Q 663.00>618.90 (-) 6.57e5



R1 662.90>169.00 (-) 1.14e5



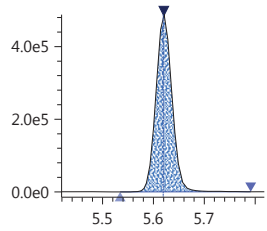
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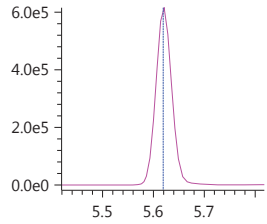
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Conc 0.9870
RT 5.620 Area 1075546
R#1 126.14 (0.00)

Q 713.40>669.00 (-) 4.88e5



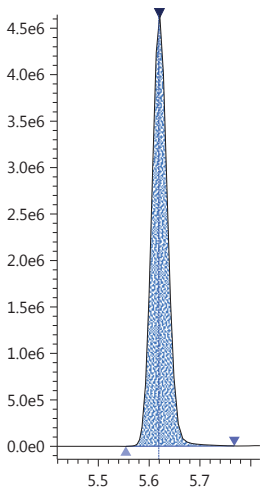
R1 713.40>169.10 (-) 6.16e5



PFTeDA-13C

Conc 5.0306
RT 5.620 Area 10187522

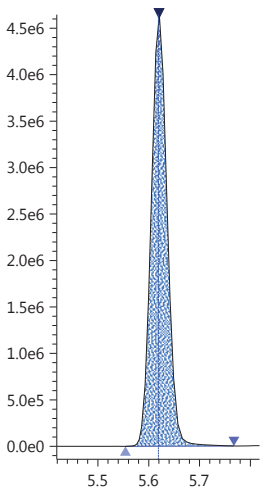
Q 714.70>669.90 (-) 4.65e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.620 Area 10187522

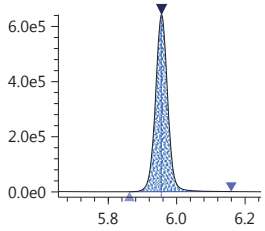
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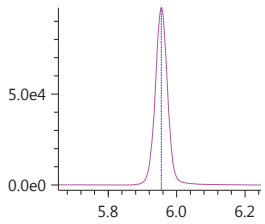
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Conc 1.0547
RT 5.956 Area 1604812
R#1 14.95 (0.00)

Q 813.00>769.05 (-) 6.43e5



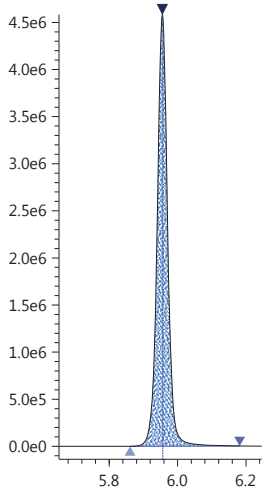
R1 813.00>218.95 (-) 9.75e4



13C-PFHxDA

Conc 5.2129
RT 5.955 Area 9732712

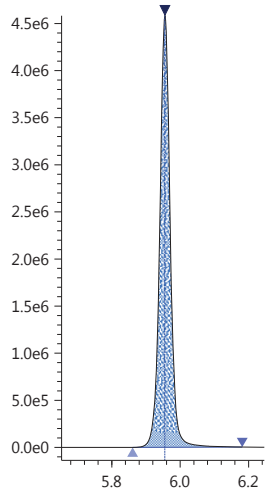
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13C-PFHxDA_IS

Conc 5.0000
RT 5.955 Area 9732712

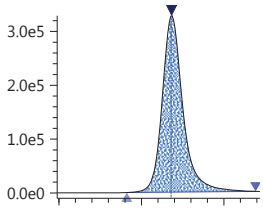
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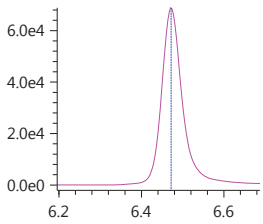
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Conc 1.0075
RT 6.473 Area 1145452
R#1 20.98 (0.00)

Q 913.00>868.85 (-) 3.29e5



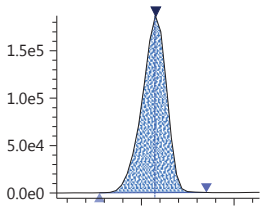
R1 913.00>169.00 (-) 6.89e4



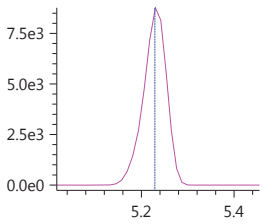
FOSA

Conc 0.9650
RT 5.231 Area 692059
R#1 4.67 (0.00)

Q 498.20>78.00 (-) 1.87e5



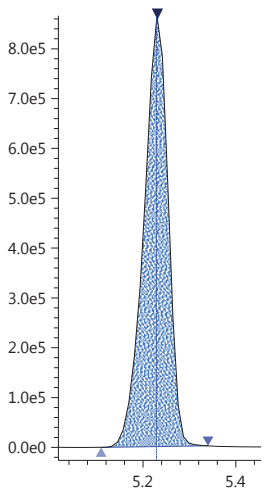
R1 498.20>64.10 (-) 8.77e3



FOSA-13C

Conc 5.2075
RT 5.231 Area 3163732

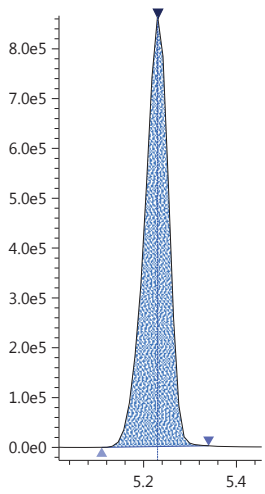
Q 506.00>78.05 (-) 8.66e5



FOSA-13C_IS

Conc 5.0000
RT 5.231 Area 3163732

ISTD 506.00>78.05 (-) 8.66e5



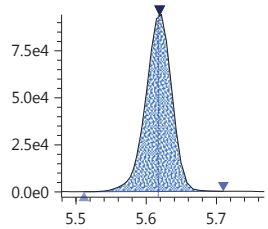
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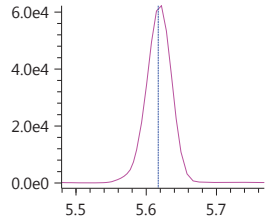
N-MeFOSA

Conc 0.8939
RT 5.619 Area 246100
R#1 65.93 (0.00)

Q 512.00>169.10 (-) 9.43e4



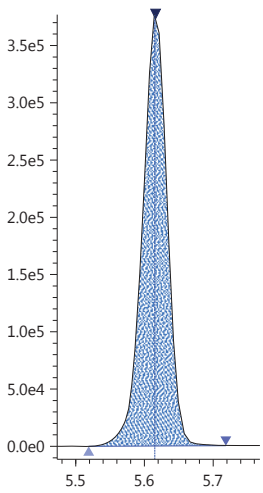
R1 512.00>219.00 (-) 6.22e4



N-MeFOSA-d3

Conc 5.2724
RT 5.616 Area 945111

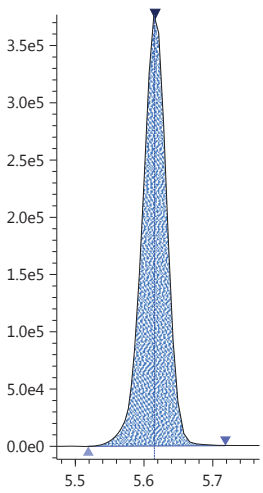
Q 514.90>168.90 (-) 3.77e5



N-MeFOSA-d3_IS

Conc 5.0000
RT 5.616 Area 945111

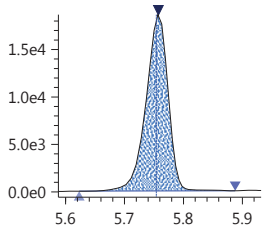
ISTD 514.90>168.90 (-) 3.77e5



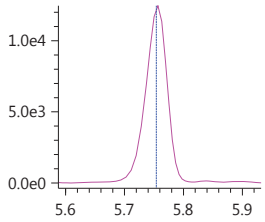
N-EtFOSA

Conc 1.0399
RT 5.757 Area 48324
R#1 66.93 (0.00)

Q 526.90>169.10 (-) 1.87e4



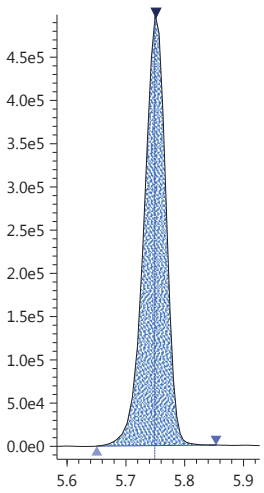
R1 526.90>219.00 (-) 1.25e4



N-EtFOSA-d9

Conc 5.0110
RT 5.751 Area 1294267

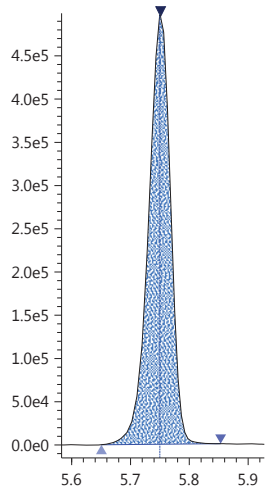
Q 530.90>169.15 (-) 4.99e5



N-EtFOSA-d9_IS

Conc 5.0000
RT 5.751 Area 1294267

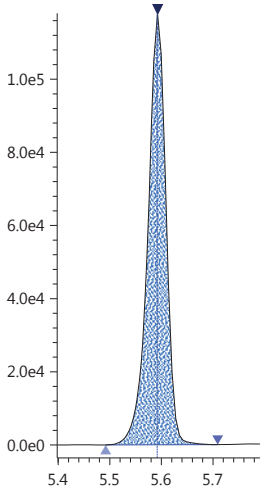
ISTD 530.90>169.15 (-) 4.99e5



N-MeFOSE

Conc 1.0207
RT 5.593 Area 287626

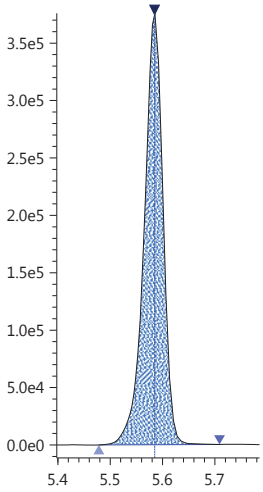
Q 616.00>59.00 (-) 1.18e5



N-MeFOSE-d7

Conc 5.0113
RT 5.585 Area 943459

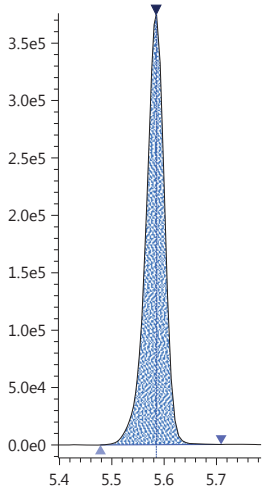
Q 622.70>59.10 (-) 3.76e5



N-MeFOSE-d7_IS

Conc 5.0000
RT 5.585 Area 943459

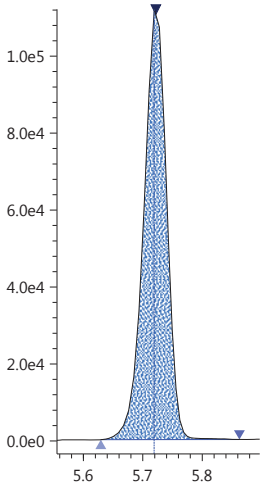
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N-EtFOSE

Conc 0.9133
RT 5.722 Area 301378

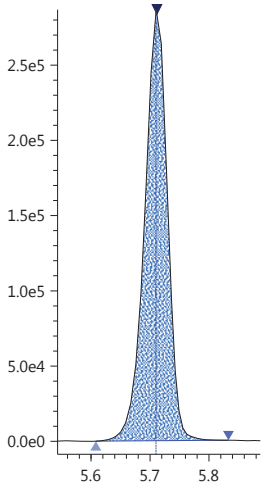
Q 630.00>58.90 (-) 1.12e5



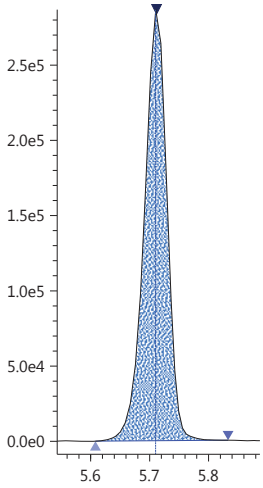
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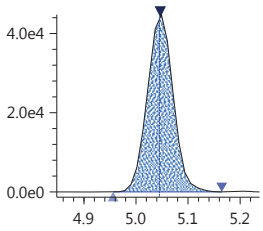
N-EtFOSE-d9
Conc 5.6563
RT 5.712 Area 770587
Q 638.70>59.10 (-) 2.87e5



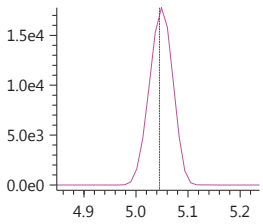
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Conc 5.0000
RT 5.712 Area 770587
ISTD 638.70>59.10 (-) 2.87e5



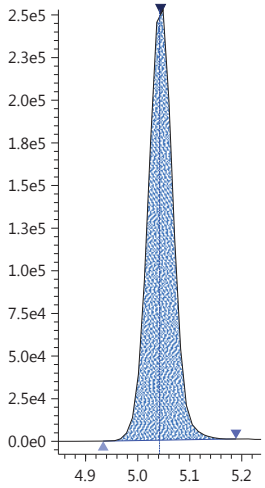
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Conc 1.1027
RT 5.047 Area 154256
R#1 39.34 (0.00)
Q 570.20>419.00 (-) 4.48e4



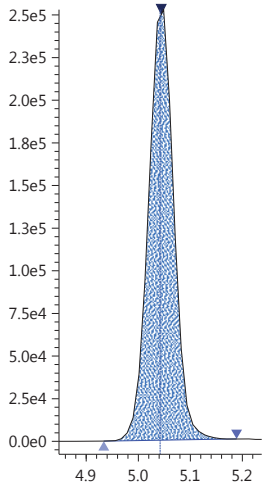
R1 570.20>512.00 (-) 1.78e4



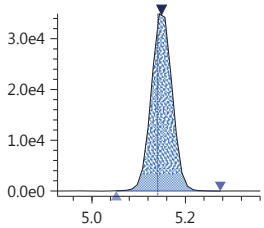
N-MeFOSAA-d3
Conc 4.8962
RT 5.044 Area 857261
Q 572.80>419.05 (-) 2.53e5



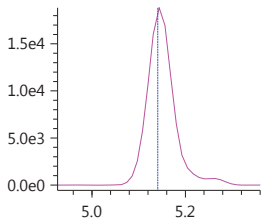
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Conc 5.0000
RT 5.044 Area 857261
ISTD 572.80>419.05 (-) 2.53e5



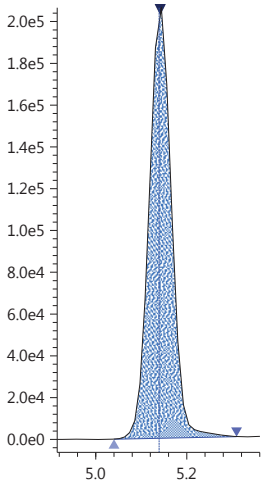
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Conc 1.2655
RT 5.149 Area 110321
R#1 54.66 (0.00)
Q 584.20>418.95 (-) 3.49e4



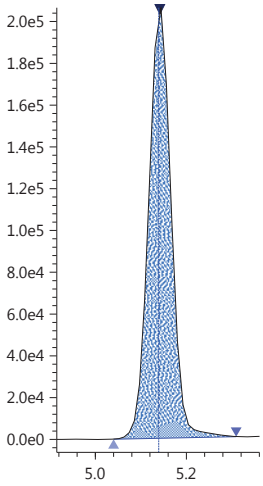
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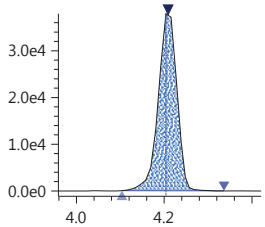
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Conc 4.9508
RT 5.142 Area 705310
Q 588.80>419.00 (-) 2.07e5



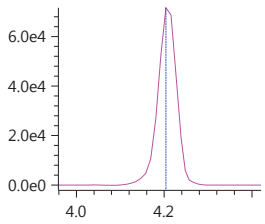
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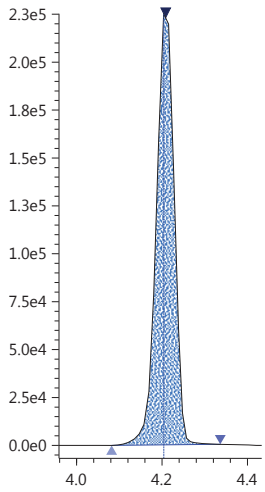
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RT 4.209 Area 112471
R#1 189.09 (0.00)
Q 327.00>307.05 (-) 3.79e4



R1 327.00>81.10 (-) 7.16e4



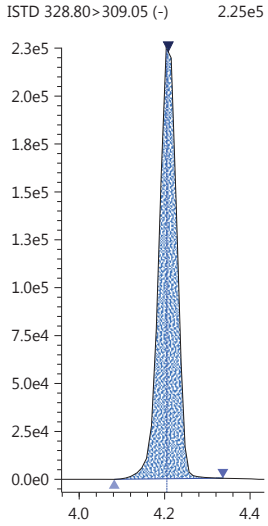
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Conc 5.4964
RT 4.209 Area 658915
Q 328.80>309.05 (-) 2.25e5



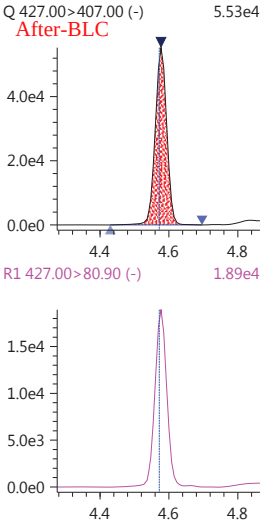
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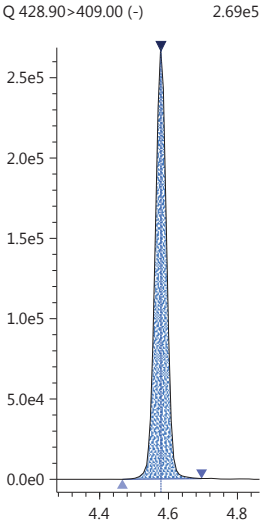
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Conc 5.0000
RT 4.209 Area 658915



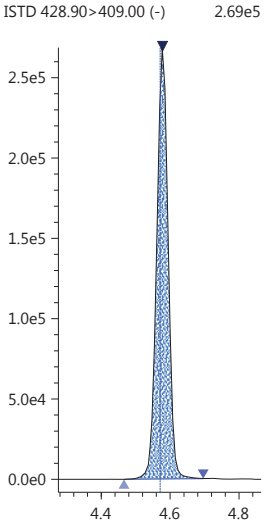
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Conc 1.1319
RT 4.577 Area 128432
R#1 34.20 (0.00)



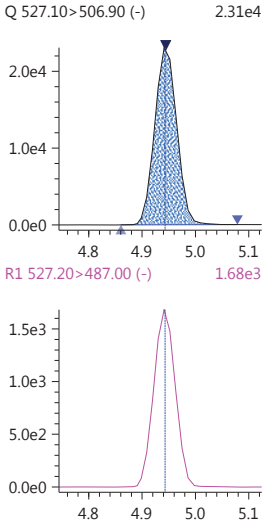
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Conc 4.8702
RT 4.578 Area 622316



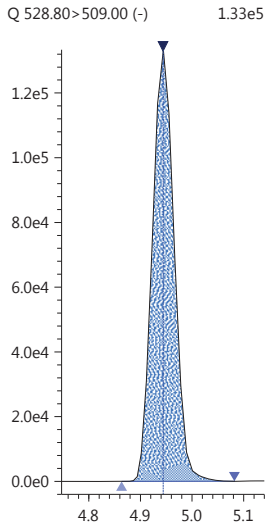
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RT 4.578 Area 622316



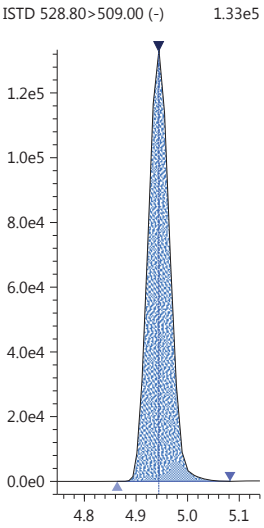
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Conc 1.1496
RT 4.944 Area 66712
R#1 7.31 (0.00)



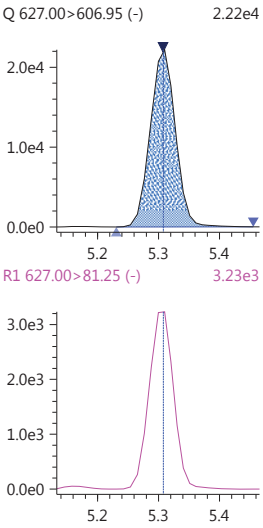
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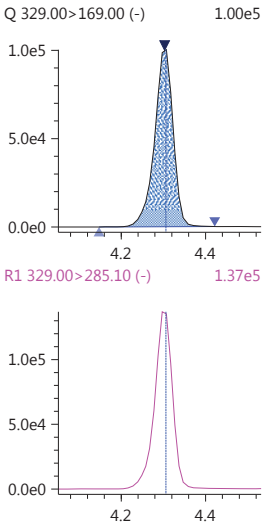
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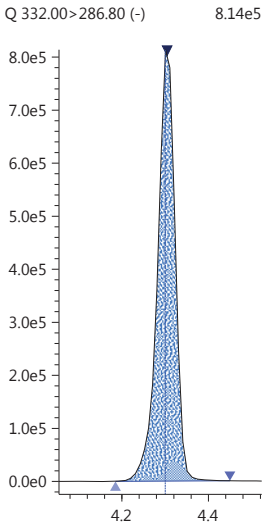
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Conc 1.0101
RT 5.307 Area 63650
R#1 14.53 (0.00)



HPFO_DA
Conc 0.8040
RT 4.303 Area 306474
R#1 138.04 (0.00)



HFPO_DA-13C
Conc 5.7089
RT 4.304 Area 2299663



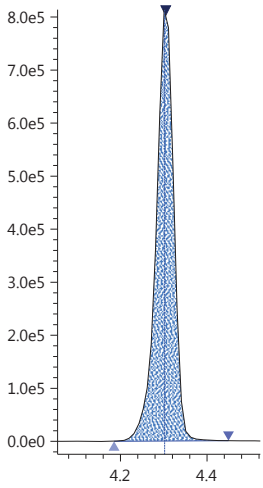
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HFPO_DA-13C_IS

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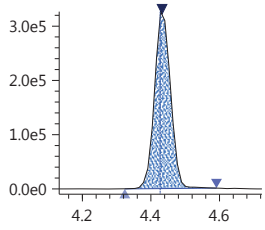
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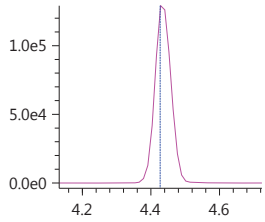
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Conc 0.8433
RT 4.432 Area 1068442
R#1 39.57 (0.00)

Q 377.00>251.00 (-) 3.27e5



R1 377.00>84.95 (-) 1.29e5



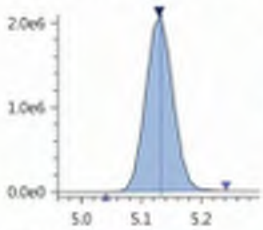
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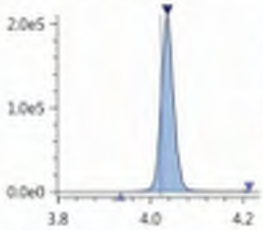
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Date acquired: 9/20/2019 5:17:44 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_017.lcd
Vial: 8 | Inj. Volume: 15.0000uL | Tray: 0

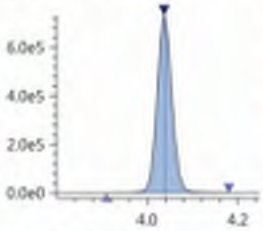
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Conc 5.0000
RT 5.130 Area 6683273
ISTD 570.00>525.00 (-) 2.10e6



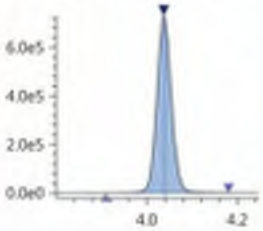
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Q 299.00>80.00 (-) 2.11e5



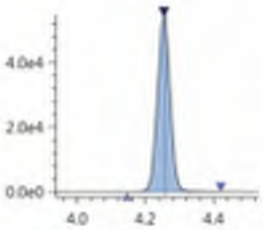
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Q 301.80>80.00 (-) 7.31e5



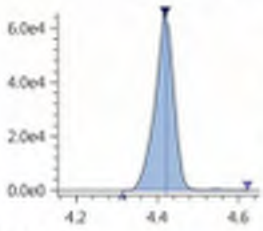
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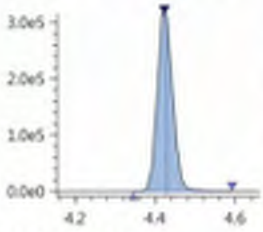
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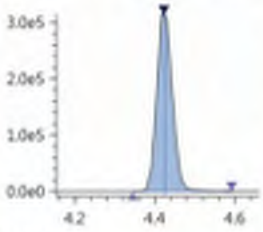
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Q 399.00>80.00 (-) 6.56e4



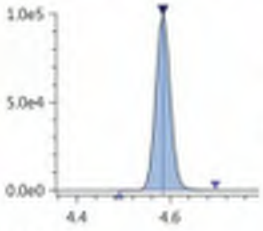
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Q 402.70>84.05 (-) 3.15e5



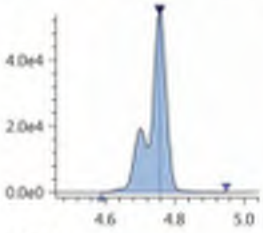
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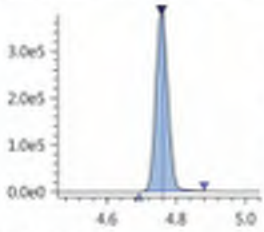
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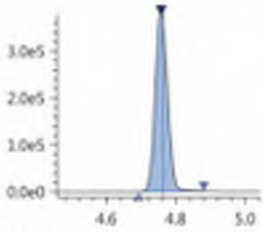
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RT 4.757 Area 191580
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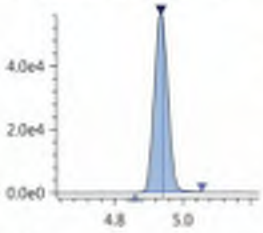
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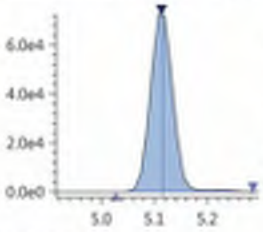
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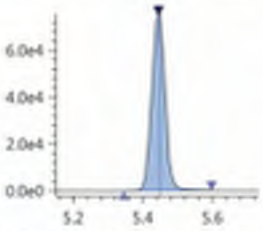
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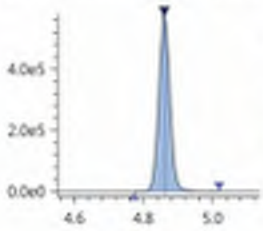
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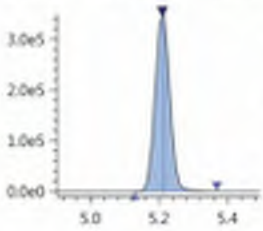
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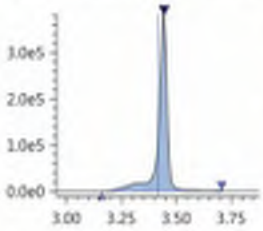
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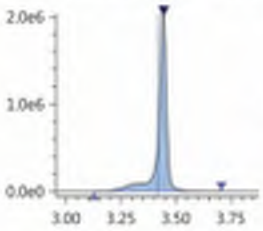
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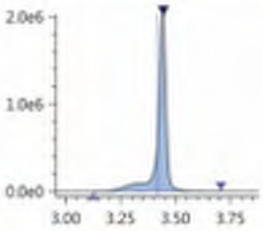
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RT 3.444 Area 1013452
Q 213.00>169.10 (-) 3.83e5



PFBA-13C
Conc 4.9788
RT 3.443 Area 5312732
Q 216.90>172.15 (-) 2.03e6



PFBA-13C_IS
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RT 3.443 Area 5312732
ISTD 216.90>172.15 (-) 2.03e6



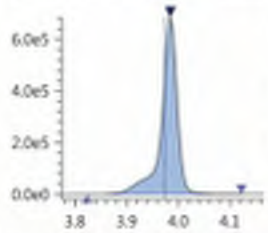
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Manual Integration - Before

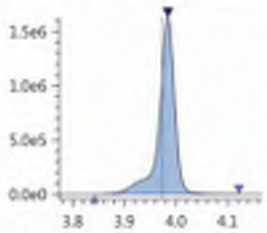
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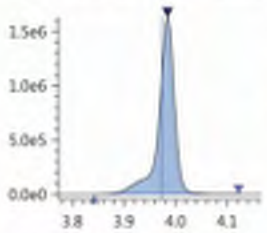
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Q 263.05>219.10 (-) 6.86e5



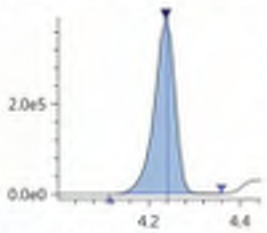
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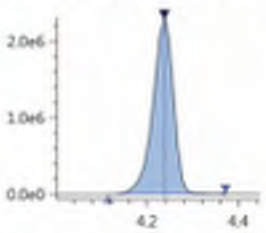
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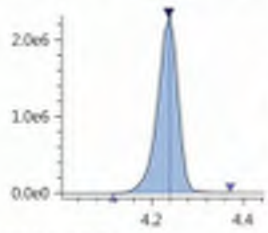
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Q 313.00>269.00 (-) 3.93e5



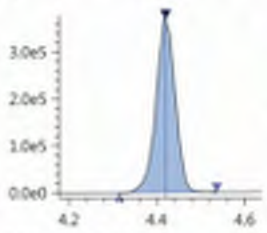
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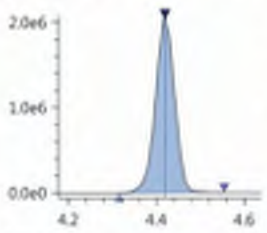
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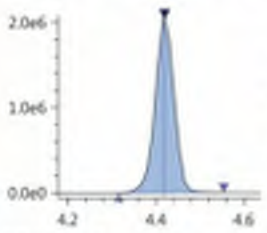
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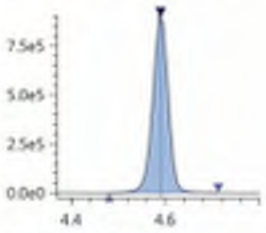
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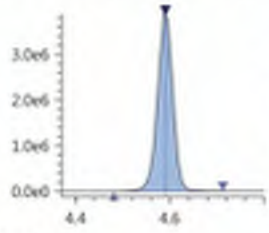
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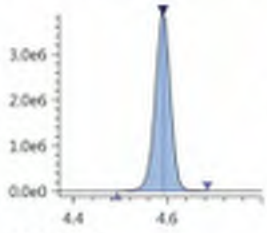
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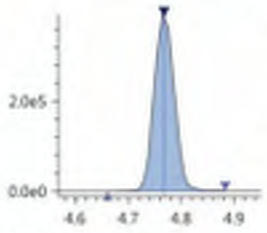
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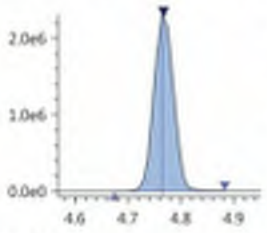
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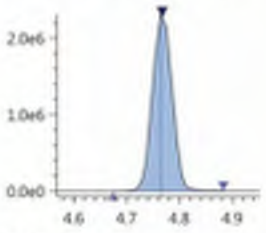
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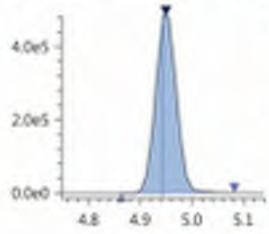
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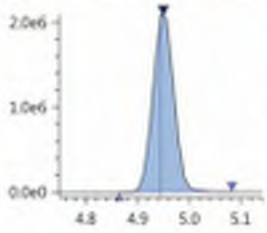
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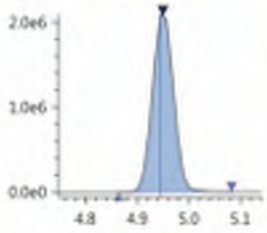
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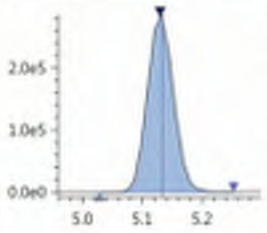
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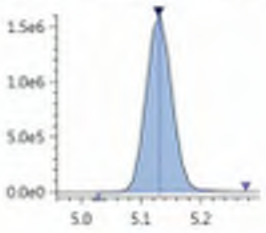
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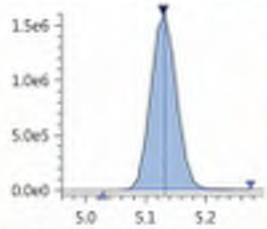
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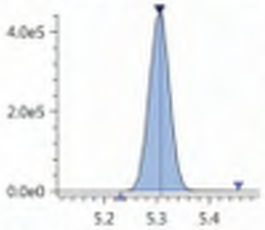
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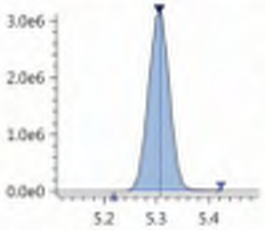
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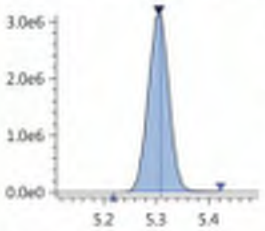
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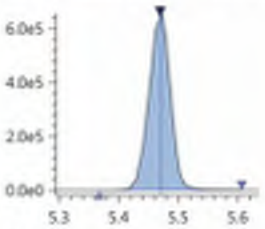
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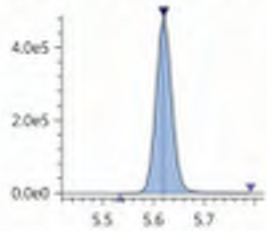
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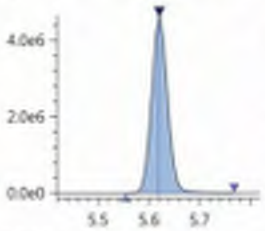
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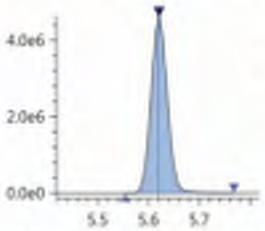
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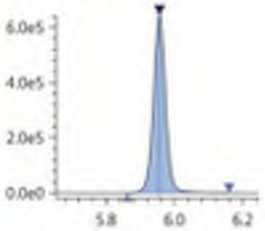
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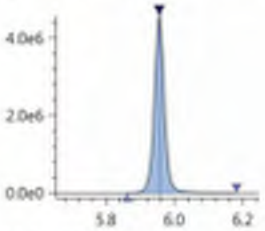
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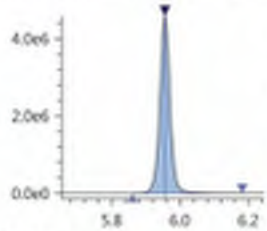
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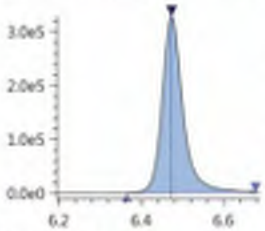
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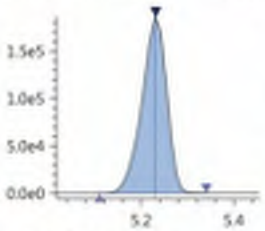
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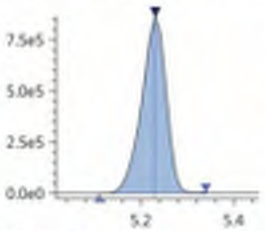
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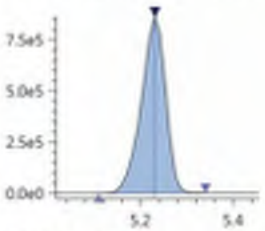
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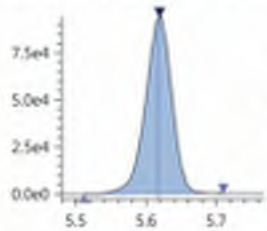
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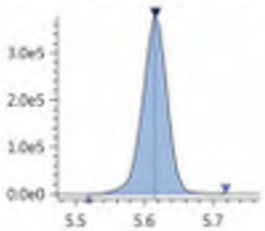
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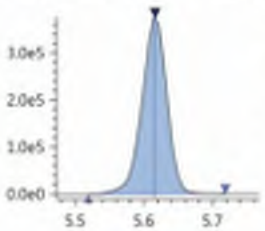
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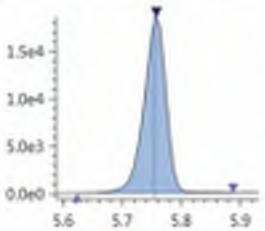
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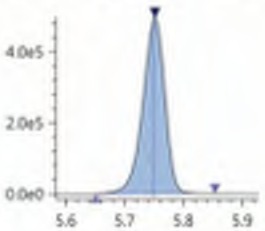
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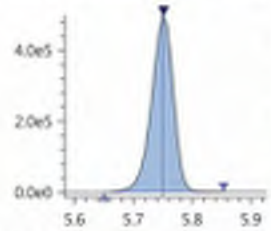
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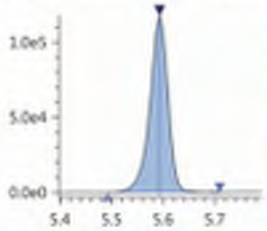
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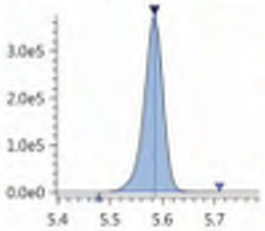
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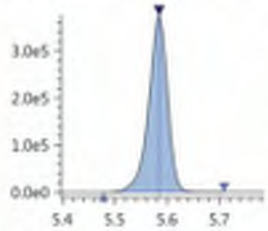
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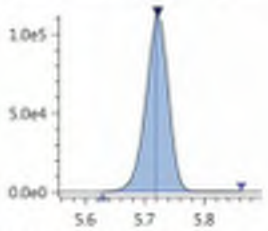
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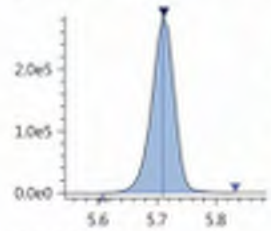
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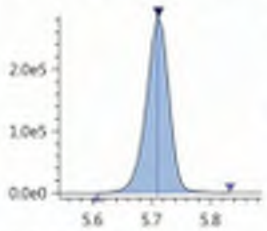
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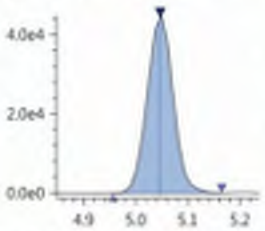
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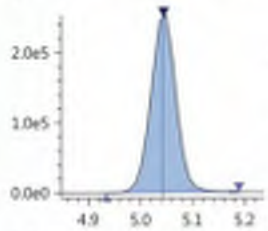
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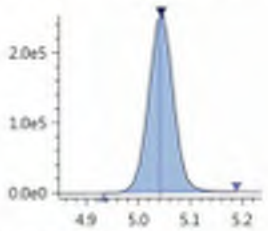
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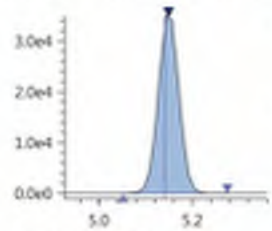
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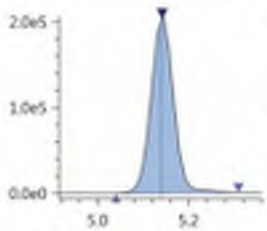
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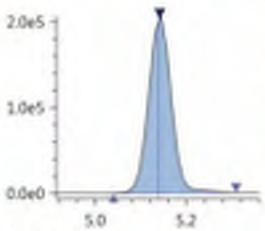
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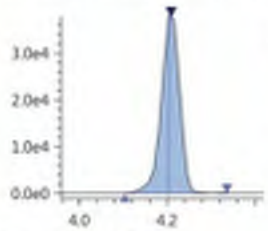
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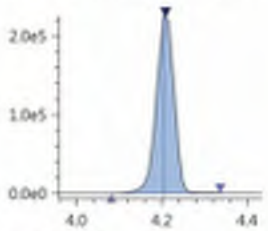
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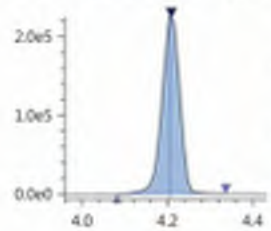
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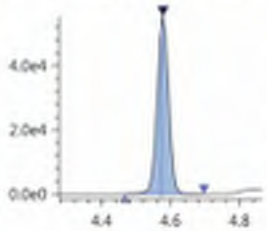
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Q 328.80>309.05 (-) 2.25e5



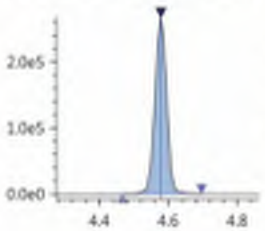
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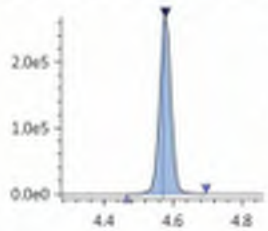
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Q 427.00>407.00 (-) 5.53e4



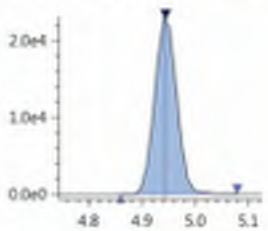
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Q 428.90>409.00 (-) 2.69e5



6_2-FTS-13C_IS
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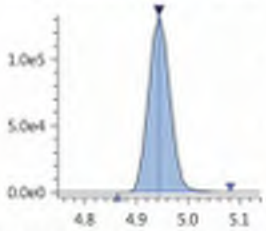
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RT 4.944 Area 66712
Q 527.10>506.90 (-) 2.31e4



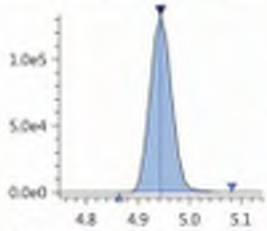
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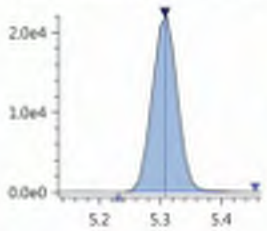
8_2-FTS-13C
Conc 4.9584
RT 4.944 Area 390898
Q 528.80>509.00 (-) 1.33e5



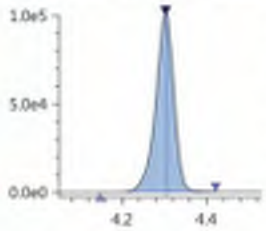
8_2-FTS-13C_IS
Conc 5.0000
RT 4.944 Area 390898
ISTD 528.80>509.00 (-) 1.33e5



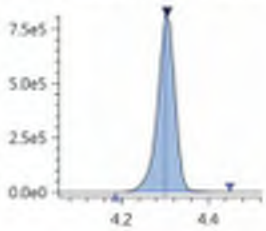
10_2-FtS_1
Conc 1.0156
RT 5.307 Area 63650
Q 627.00>606.95 (-) 2.22e4



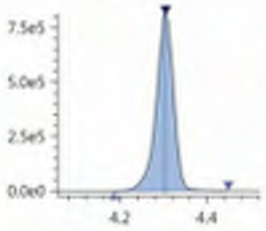
HPFO_DA
Conc 0.9615
RT 4.303 Area 306474
Q 329.00>169.00 (-) 1.00e5



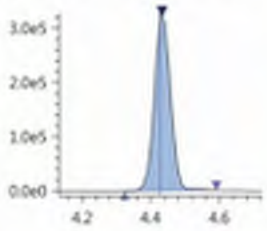
HFPO_DA-13C
Conc 5.7089
RT 4.304 Area 2299663
Q 332.00>286.80 (-) 8.14e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.304 Area 2299663
ISTD 332.00>286.80 (-) 8.14e5



ADONA
Conc 0.8469
RT 4.432 Area 1068442
Q 377.00>251.00 (-) 3.27e5



Insight Report

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190920_018

Sample ID: IB
Date acquired: 9/20/2019 5:28:46 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_018.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.130	5838290	5838290	1	5.0000	ng/mL	----
PFBS_1	M	4.035	469	1532385	2	0.0012	ng/mL	----
PFBS-13C	Auto	4.038	1532385	5838290	1	5.3771	ng/mL	----
PFBS-13C_IS	Auto	4.038	1532385	1532385	2	5.0000	ng/mL	----
PFPeS	ND(W/B)	----	----	1532385	2	----	ng/mL	----
PFHxS_1	M	4.422	4102	892620	3	0.0164	ng/mL	----
PFHxS-18O	Auto	4.423	892620	5838290	1	5.6120	ng/mL	----
PFHxS-18O_IS	Auto	4.423	892620	892620	3	5.0000	ng/mL	----
PFHpS_1	M	4.583	139	892620	3	0.0006	ng/mL	----
PFOS_1	M	4.758	1473	999472	4	0.0070	ng/mL	----
PFOS-13C	Auto	4.757	999472	5838290	1	6.3035	ng/mL	----
PFOS-13C_IS	Auto	4.757	999472	999472	4	5.0000	ng/mL	----
PFNS	NI	----	----	999472	4	----	ng/mL	----
PFDS_1	ND(W/B)	----	----	999472	4	----	ng/mL	----
PFDOS	M	5.453	75	999472	4	0.0003	ng/mL	----
9Cl-PF3ONS	M	4.859	784	999472	4	0.0005	ng/mL	----
11Cl-PF3OUdS	M	5.215	982	999472	4	0.0011	ng/mL	----
PFBA	M	3.447	2987	4807885	5	0.0033	ng/mL	----
PFBA-13C	Auto	3.444	4807885	5838290	1	5.1578	ng/mL	----
PFBA-13C_IS	Auto	3.444	4807885	4807885	5	5.0000	ng/mL	----
PFPeA	Auto	3.986	132252	3217106	6	0.0074	ng/mL	----
PFPeA-13C	Auto	3.985	3217106	5838290	1	5.2689	ng/mL	----
PFPeA-13C_IS	Auto	3.985	3217106	3217106	6	5.0000	ng/mL	----
PFHxA	M	4.230	26603	7240478	7	0.0060	ng/mL	----
PFHxA-13C	Auto	4.239	7240478	5838290	1	5.1404	ng/mL	----
PFHxA-13C_IS	Auto	4.239	7240478	7240478	7	5.0000	ng/mL	----
PFHpA	Auto	4.405	17435	6266771	8	-0.0024	ng/mL	----
PFHpA-13C	Auto	4.420	6266771	5838290	1	5.2621	ng/mL	----
PFHpA-13C_IS	Auto	4.420	6266771	6266771	8	5.0000	ng/mL	----
PFOA	M	4.588	37236	8626642	9	0.0084	ng/mL	----
PFOA-13C	Auto	4.591	8626642	5838290	1	6.1402	ng/mL	----
PFOA-13C_IS	Auto	4.591	8626642	8626642	9	5.0000	ng/mL	----
PFNA	M	4.757	4947	6026490	10	-0.0128	ng/mL	----
PFNA-13C	Auto	4.768	6026490	5838290	1	5.6452	ng/mL	----
PFNA-13C_IS	Auto	4.768	6026490	6026490	10	5.0000	ng/mL	----
PFDA	M	4.948	7215	5898260	11	0.0057	ng/mL	----
PFDA-13C	Auto	4.950	5898260	5838290	1	6.2519	ng/mL	----
PFDA-13C_IS	Auto	4.950	5898260	5898260	11	5.0000	ng/mL	----
PFUnA	M	5.126	17607	4418630	12	0.0005	ng/mL	----
PFUnA-13C	Auto	5.131	4418630	5838290	1	5.2893	ng/mL	----
PFUnA-13C_IS	Auto	5.131	4418630	4418630	12	5.0000	ng/mL	----
PFDoA	Auto	5.295	2603	7697558	13	-0.0069	ng/mL	----
PFDoA-13C	Auto	5.306	7697558	5838290	1	5.6109	ng/mL	----
PFDoA-13C_IS	Auto	5.306	7697558	7697558	13	5.0000	ng/mL	----
PFTrDA	M	5.466	7896	9381133	14	-0.0062	ng/mL	----
PFTeDA	Auto	5.622	131119	9381133	14	0.0064	ng/mL	----
PFTeDA-13C	Auto	5.622	9381133	5838290	1	5.3028	ng/mL	----
PFTeDA-13C_IS	Auto	5.622	9381133	9381133	14	5.0000	ng/mL	----
PFHxDA	M	5.955	82727	8996973	15	-0.0022	ng/mL	----
13C-PFHxDA	Auto	5.955	8996973	5838290	1	5.5162	ng/mL	----
13C-PFHxDA_IS	Auto	5.955	8996973	8996973	15	5.0000	ng/mL	----
PFODA	Auto	6.471	7126	8996973	15	0.0068	ng/mL	----
FOSA	M	5.234	2538	2800979	16	0.0040	ng/mL	----
FOSA-13C	Auto	5.232	2800979	5838290	1	5.2776	ng/mL	----
FOSA-13C_IS	Auto	5.232	2800979	2800979	16	5.0000	ng/mL	----
N-MeFOSA	M	5.621	1123	831185	17	0.0046	ng/mL	----
N-MeFOSA-d3	Auto	5.618	831185	5838290	1	5.3079	ng/mL	----
N-MeFOSA-d3_IS	Auto	5.618	831185	831185	17	5.0000	ng/mL	----
N-EtFOSA	M	5.759	2949	1151023	18	0.0714	ng/mL	----
N-EtFOSA-d9	Auto	5.752	1151023	5838290	1	5.1014	ng/mL	----
N-EtFOSA-d9_IS	Auto	5.752	1151023	1151023	18	5.0000	ng/mL	----
N-MeFOSE	M	5.588	86	869356	19	0.0003	ng/mL	----
N-MeFOSE-d7	Auto	5.587	869356	5838290	1	5.2860	ng/mL	----
N-MeFOSE-d7_IS	Auto	5.587	869356	869356	19	5.0000	ng/mL	----
N-EtFOSE	M	5.726	2147	684065	20	0.0073	ng/mL	----
N-EtFOSE-d9	Auto	5.712	684065	5838290	1	5.7479	ng/mL	----
N-EtFOSE-d9_IS	Auto	5.712	684065	684065	20	5.0000	ng/mL	----
N-MeFOSAA	Auto	5.049	1032	765387	21	0.0083	ng/mL	----

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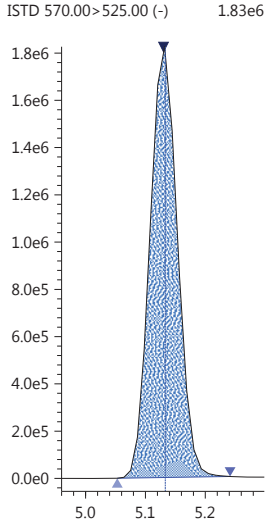
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Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
N-MeFOSAA-d3	Auto	5.046	765387	5838290	1	5.0042	ng/mL	----
N-MeFOSAA-d3_IS	Auto	5.046	765387	765387	21	5.0000	ng/mL	----
N-EtFOSAA	M	5.132	880	632355	22	0.0113	ng/mL	----
N-EtFOSAA-d5	Auto	5.144	632355	5838290	1	5.0811	ng/mL	----
N-EtFOSAA-d5_IS	Auto	5.144	632355	632355	22	5.0000	ng/mL	----
4_2-FTS_1	Auto	4.213	666	636906	23	0.0056	ng/mL	----
4_2-FTS-13C	Auto	4.209	636906	5838290	1	6.0817	ng/mL	----
4_2-FTS-13C_IS	Auto	4.209	636906	636906	23	5.0000	ng/mL	----
6_2-FTS_1	M	4.581	478	607309	24	0.0043	ng/mL	----
6_2-FTS-13C	Auto	4.578	607309	5838290	1	5.4407	ng/mL	----
6_2-FTS-13C_IS	Auto	4.578	607309	607309	24	5.0000	ng/mL	----
8_2-FTS_1	M	4.963	124	365806	25	0.0023	ng/mL	----
8_2-FTS-13C	Auto	4.945	365806	5838290	1	5.3117	ng/mL	----
8_2-FTS-13C_IS	Auto	4.945	365806	365806	25	5.0000	ng/mL	----
10_2-FtS_1	M	5.310	48	365806	25	0.0008	ng/mL	----
HPFO_DA	M	4.305	477	2060600	26	-0.0635	ng/mL	----
HFPO_DA-13C	Auto	4.305	2060600	5838290	1	5.8558	ng/mL	----
HFPO_DA-13C_IS	Auto	4.305	2060600	2060600	26	5.0000	ng/mL	----
ADONA	ND(W/B)	----	----	2060600	26	----	ng/mL	----

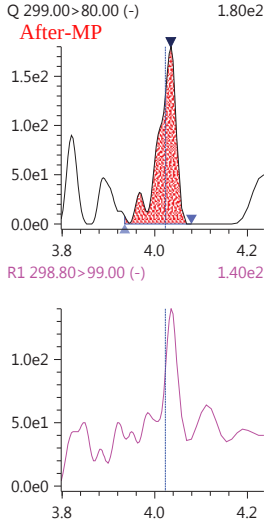
13C7-PFUnDA_IS

Conc 5.0000
RT 5.130 Area 5838290



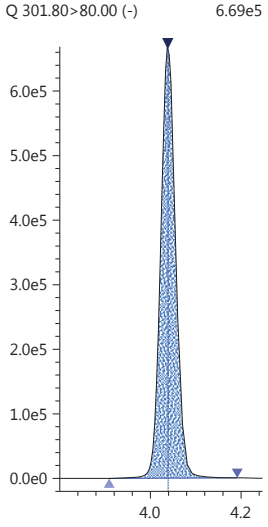
PFBS_1

Conc 0.0012
RT 4.035 Area 469
R#1 56.86 (0.00)



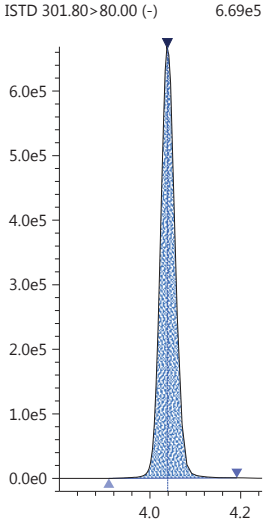
PFBS-13C

Conc 5.3771
RT 4.038 Area 1532385



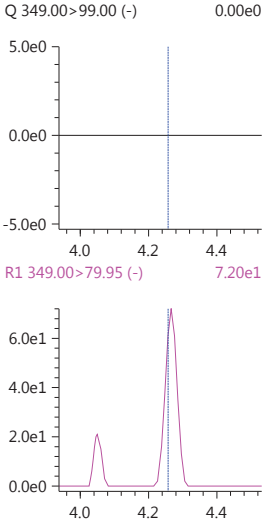
PFBS-13C_IS

Conc 5.0000
RT 4.038 Area 1532385



PFPeS

Conc ----
RT ---- Area ----
R#1 ---- (0.00)



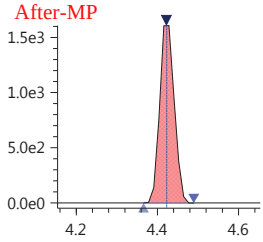
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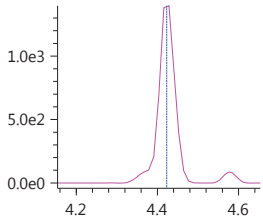
PFHxS_1

Conc 0.0164
RT 4.422 Area 4102
R#1 84.39 (0.00)

Q 399.00>80.00 (-) 1.61e3



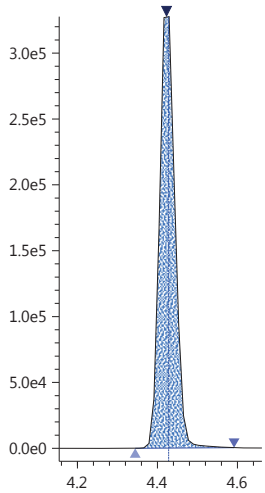
R1 399.00>99.00 (-) 1.40e3



PFHxS-18O

Conc 5.6120
RT 4.423 Area 892620

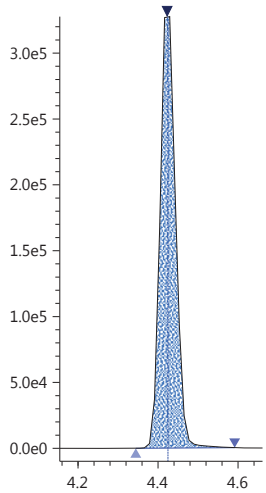
Q 402.70>84.05 (-) 3.28e5



PFHxS-18O_IS

Conc 5.0000
RT 4.423 Area 892620

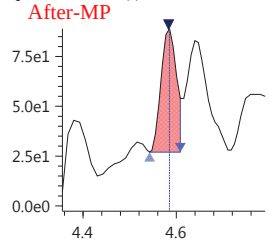
ISTD 402.70>84.05 (-) 3.28e5



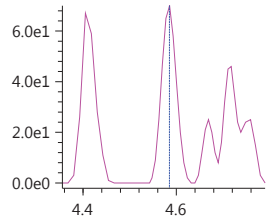
PFHpS_1

Conc 0.0006
RT 4.583 Area 139
R#1 120.83 (0.00)

Q 449.00>80.15 (-) 8.90e1



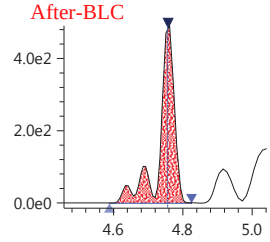
R1 449.00>99.20 (-) 7.00e1



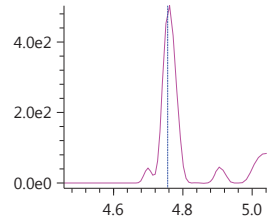
PFOS_1

Conc 0.0070
RT 4.758 Area 1473
R#1 97.34 (0.00)

Q 499.00>80.00 (-) 4.91e2



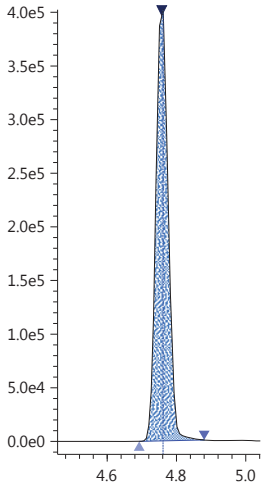
R1 499.00>99.00 (-) 5.03e2



PFOS-13C

Conc 6.3035
RT 4.757 Area 999472

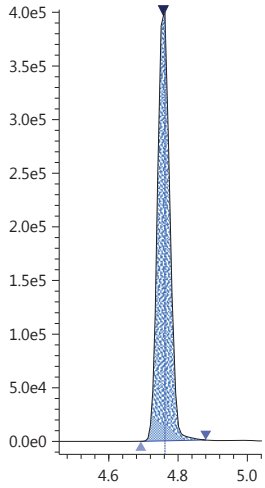
Q 502.80>80.05 (-) 4.02e5



PFOS-13C_IS

Conc 5.0000
RT 4.757 Area 999472

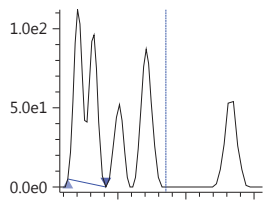
ISTD 502.80>80.05 (-) 4.02e5



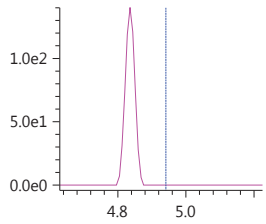
PFNS

Conc ----
RT ---- Area ----
R#1 0.00 (0.00)

Q 549.00>99.00 (-) 1.12e2



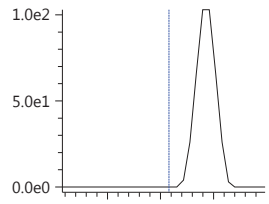
R1 549.00>79.95 (-) 1.40e2



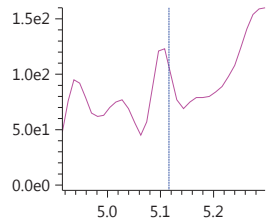
PFDS_1

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 599.00>79.90 (-) 1.03e2



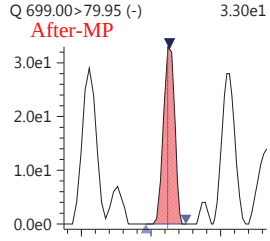
R1 599.00>99.10 (-) 1.60e2



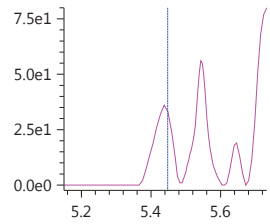
PFDOS

Conc 0.0003
RT 5.453 Area 75
R#1 54.84 (0.00)

Q 699.00>79.95 (-) 3.30e1



R1 699.00>99.05 (-) 8.00e1

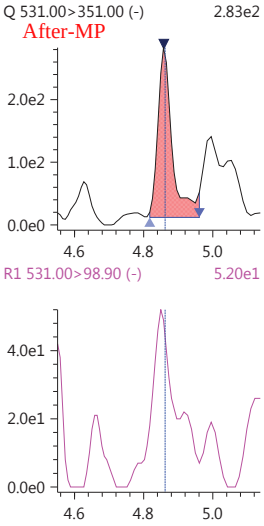


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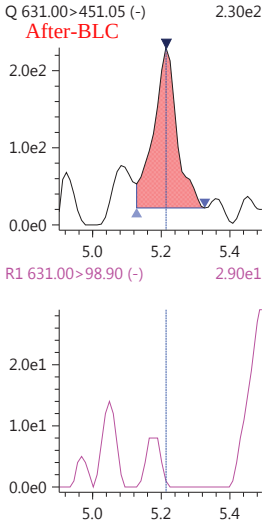
9Cl-PF3ONS

Conc 0.0005
RT 4.859 Area 784
R#1 12.84 (0.00)



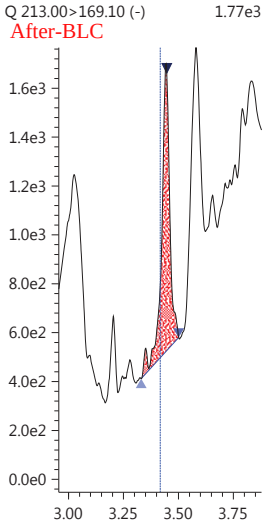
11Cl-PF3OUdS

Conc 0.0011
RT 5.215 Area 982
R#1 1.10 (0.00)



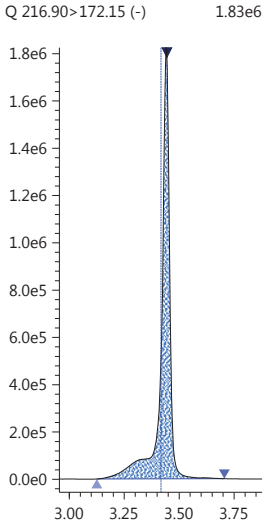
PFBA

Conc 0.0033
RT 3.447 Area 2987



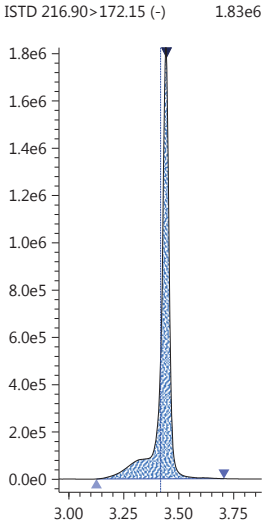
PFBA-13C

Conc 5.1578
RT 3.444 Area 4807885



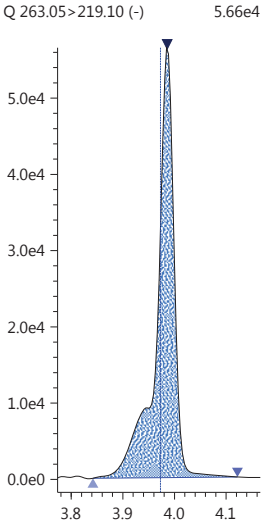
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Conc 5.0000
RT 3.444 Area 4807885



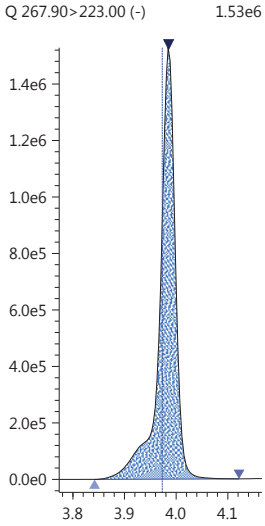
PFPeA

Conc 0.0074
RT 3.986 Area 132252



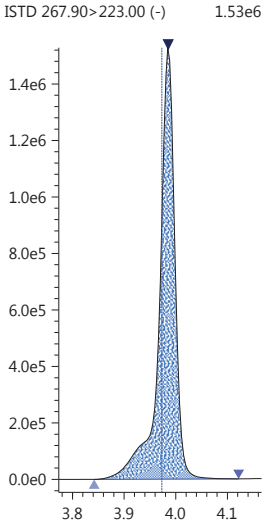
PFPeA-13C

Conc 5.2689
RT 3.985 Area 3217106



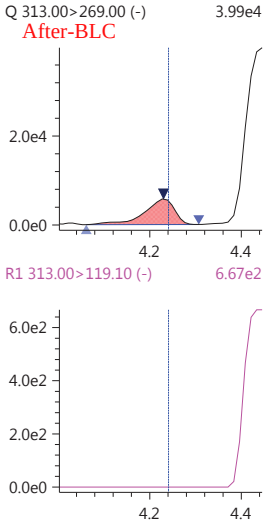
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Conc 5.0000
RT 3.985 Area 3217106



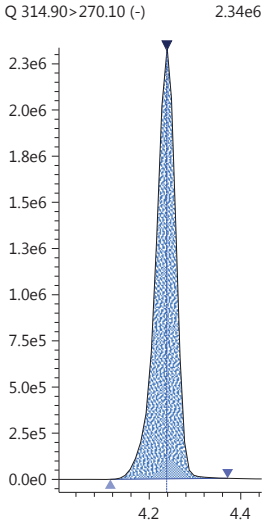
PFHxA

Conc 0.0060
RT 4.230 Area 26603
R#1 0.00 (0.00)



PFHxA-13C

Conc 5.1404
RT 4.239 Area 7240478



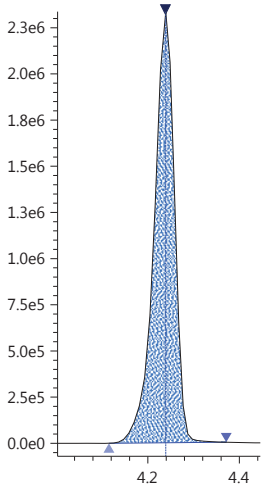
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PFHxA-13C_IS

Conc 5.0000
RT 4.239 Area 7240478

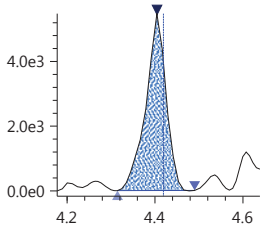
ISTD 314.90>270.10 (-) 2.34e6



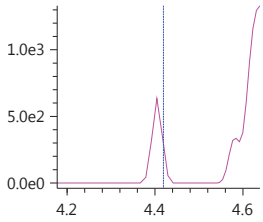
PFHpA

Conc -0.0024
RT 4.405 Area 17435
R#1 9.55 (0.00)

Q 362.90>319.00 (-) 5.48e3



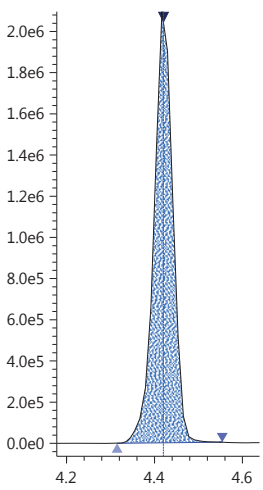
R1 362.90>169.00 (-) 1.33e3



PFHpA-13C

Conc 5.2621
RT 4.420 Area 6266771

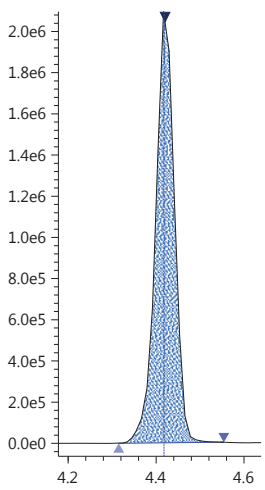
Q 366.90>322.10 (-) 2.10e6



PFHpA-13C_IS

Conc 5.0000
RT 4.420 Area 6266771

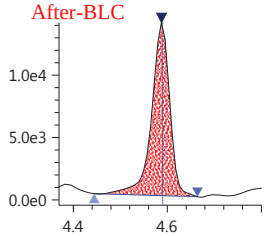
ISTD 366.90>322.10 (-) 2.10e6



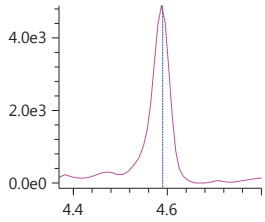
PFOA

Conc 0.0084
RT 4.588 Area 37236
R#1 34.72 (0.00)

Q 413.00>369.00 (-) 1.42e4



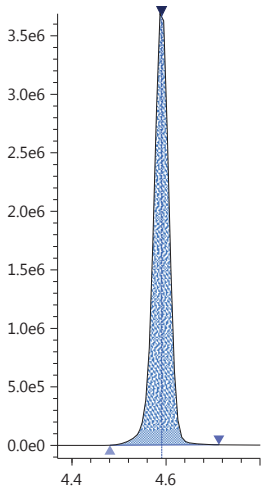
R1 413.00>169.10 (-) 4.89e3



PFOA-13C

Conc 6.1402
RT 4.591 Area 8626642

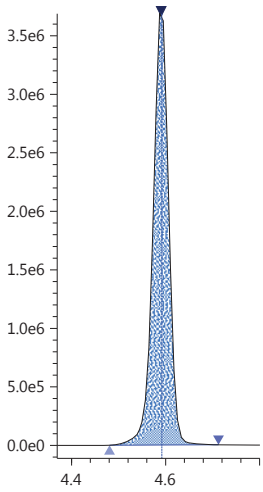
Q 416.80>372.05 (-) 3.69e6



PFOA-13C_IS

Conc 5.0000
RT 4.591 Area 8626642

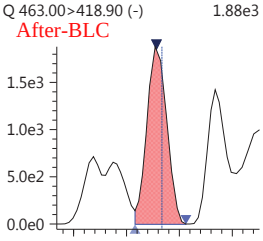
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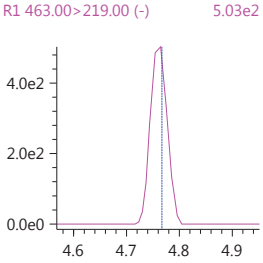
PFNA

Conc -0.0128
RT 4.757 Area 4947
R#1 26.08 (0.00)

Q 463.00>418.90 (-) 1.88e3



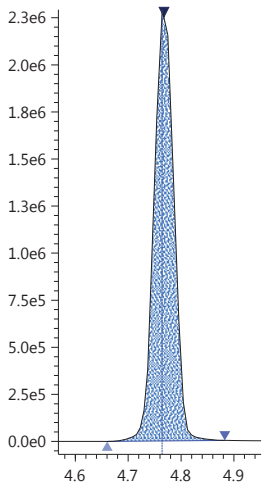
R1 463.00>219.00 (-) 5.03e2



PFNA-13C

Conc 5.6452
RT 4.768 Area 6026490

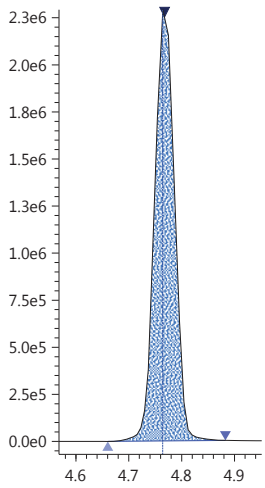
Q 467.80>423.00 (-) 2.29e6



PFNA-13C_IS

Conc 5.0000
RT 4.768 Area 6026490

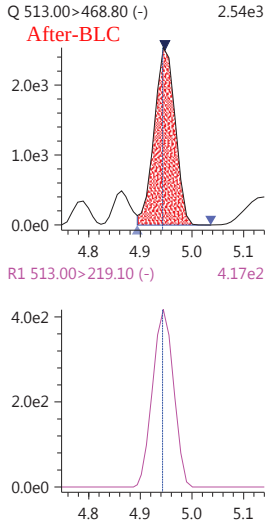
ISTD 467.80>423.00 (-) 2.29e6



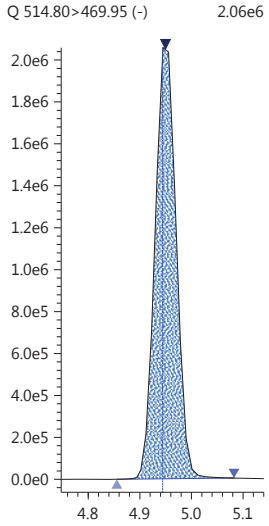
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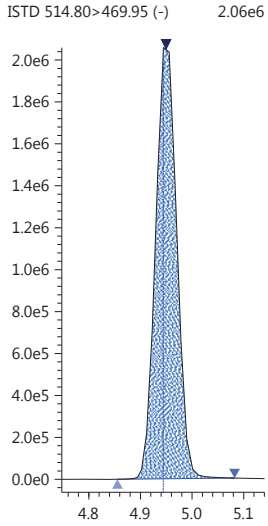
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Conc 0.0057
RT 4.948 Area 7215
R#1 16.94 (0.00)



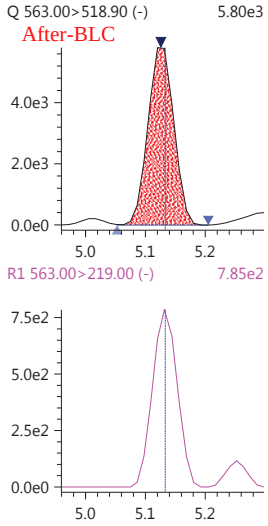
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Conc 6.2519
RT 4.950 Area 5898260



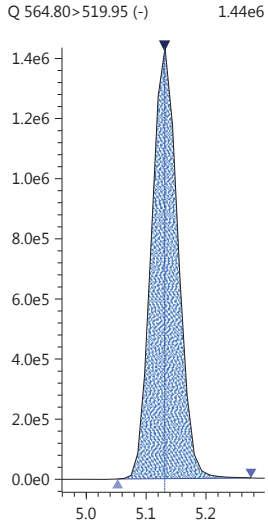
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Conc 5.0000
RT 4.950 Area 5898260



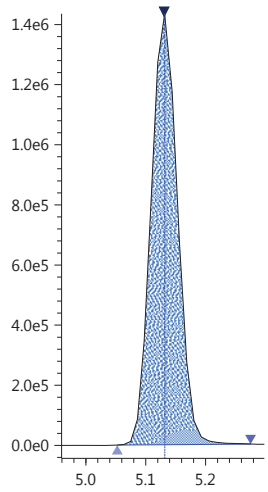
PFUnA
Conc 0.0005
RT 5.126 Area 17607
R#1 13.96 (0.00)



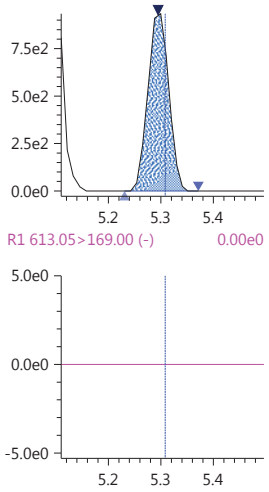
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Conc 5.2893
RT 5.131 Area 4418630



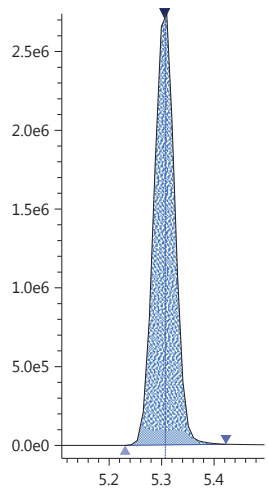
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Conc 5.0000
RT 5.131 Area 4418630



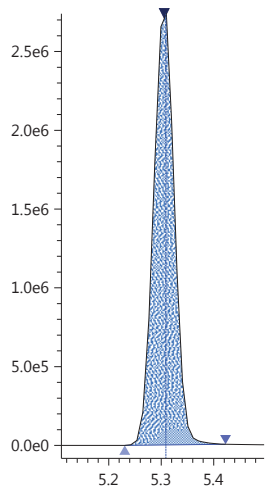
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Conc -0.0069
RT 5.295 Area 2603
R#1 0.00 (0.00)



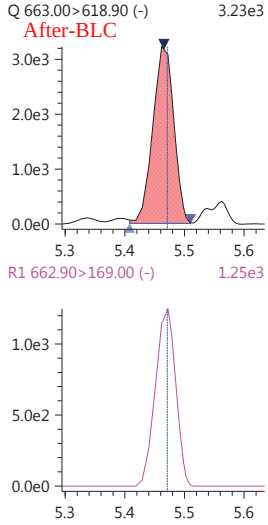
PFDoA-13C
Conc 5.6109
RT 5.306 Area 7697558



PFDoA-13C_IS
Conc 5.0000
RT 5.306 Area 7697558



PFTrDA
Conc -0.0062
RT 5.466 Area 7896
R#1 39.24 (0.00)



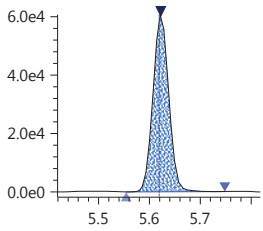
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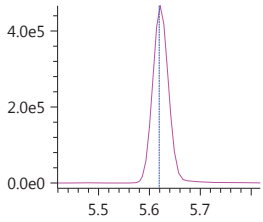
PFTeDA

Conc 0.0064
RT 5.622 Area 131119
R#1 768.98 (0.00)

Q 713.40>669.00 (-) 6.07e4



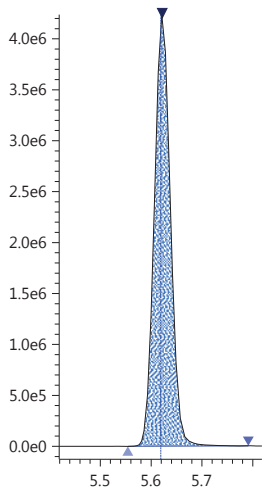
R1 713.40>169.10 (-) 4.67e5



PFTeDA-13C

Conc 5.3028
RT 5.622 Area 9381133

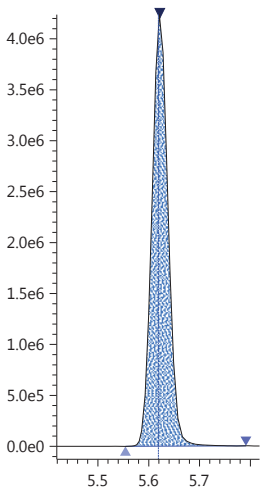
Q 714.70>669.90 (-) 4.24e6



PFTeDA-13C_IS

Conc 5.0000
RT 5.622 Area 9381133

ISTD 714.70>669.90 (-) 4.24e6

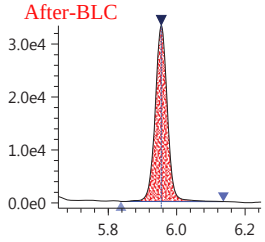


PFHxDA

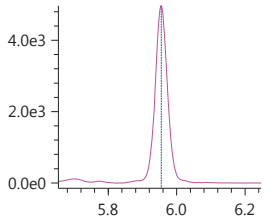
Conc -0.0022
RT 5.955 Area 82727
R#1 15.25 (0.00)

Q 813.00>769.05 (-) 3.35e4

After-BLC



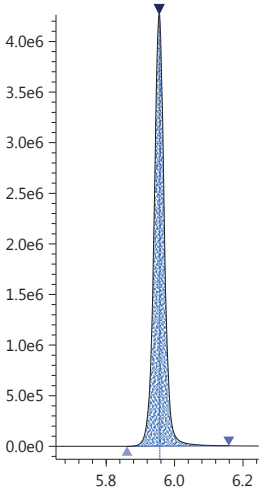
R1 813.00>218.95 (-) 4.97e3



13C-PFHxDA

Conc 5.5162
RT 5.955 Area 8996973

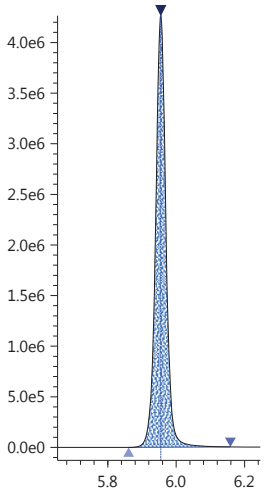
Q 815.00>770.05 (-) 4.27e6



13C-PFHxDA_IS

Conc 5.0000
RT 5.955 Area 8996973

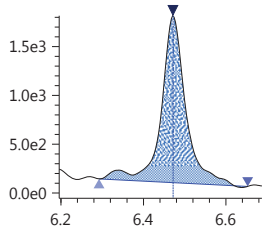
ISTD 815.00>770.05 (-) 4.27e6



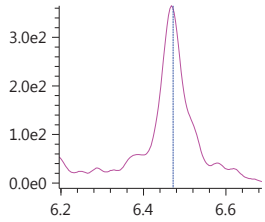
PFODA

Conc 0.0068
RT 6.471 Area 7126
R#1 19.06 (0.00)

Q 913.00>868.85 (-) 1.82e3



R1 913.00>169.00 (-) 3.65e2

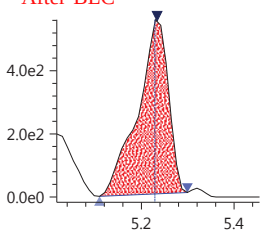


FOSA

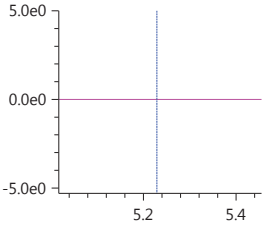
Conc 0.0040
RT 5.234 Area 2538
R#1 0.00 (0.00)

Q 498.20>78.00 (-) 5.62e2

After-BLC



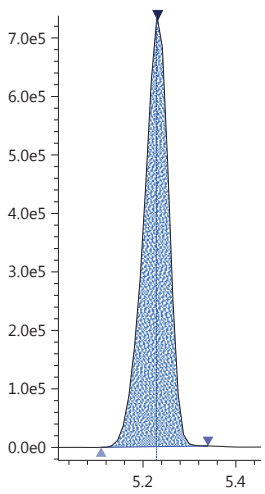
R1 498.20>64.10 (-) 0.00e0



FOSA-13C

Conc 5.2776
RT 5.232 Area 2800979

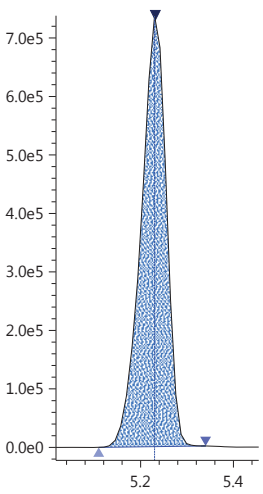
Q 506.00>78.05 (-) 7.38e5



FOSA-13C_IS

Conc 5.0000
RT 5.232 Area 2800979

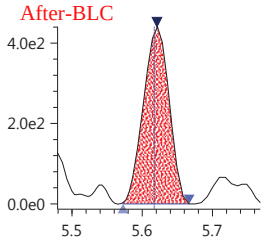
ISTD 506.00>78.05 (-) 7.38e5



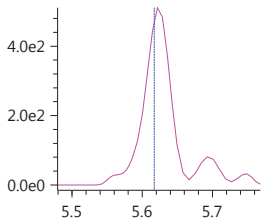
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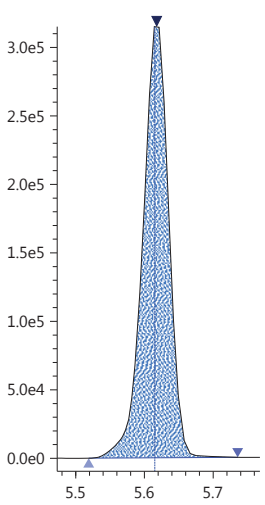
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Conc 0.0046
RT 5.621 Area 1123
R#1 113.05 (0.00)
Q 512.00>169.10 (-) 4.41e2



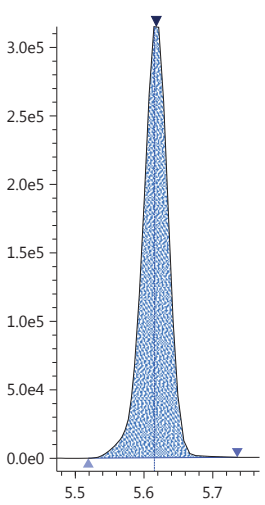
R1 512.00>219.00 (-) 5.11e2



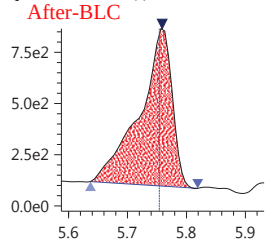
N-MeFOSA-d3
Conc 5.3079
RT 5.618 Area 831185
Q 514.90>168.90 (-) 3.15e5



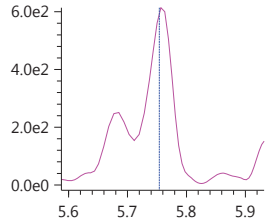
N-MeFOSA-d3_IS
Conc 5.0000
RT 5.618 Area 831185
ISTD 514.90>168.90 (-) 3.15e5



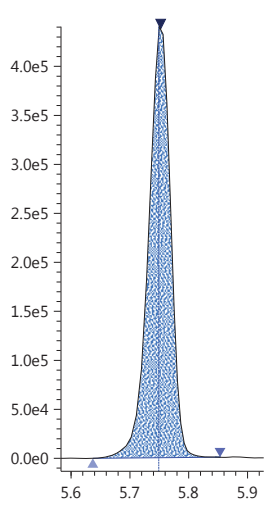
N-EtFOSA
Conc 0.0714
RT 5.759 Area 2949
R#1 77.81 (0.00)
Q 526.90>169.10 (-) 8.66e2



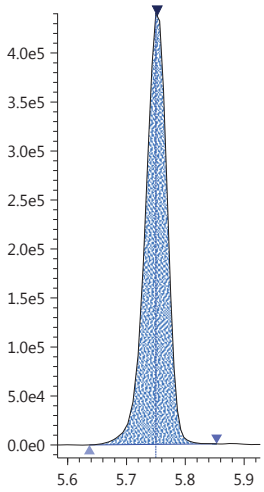
R1 526.90>219.00 (-) 6.14e2



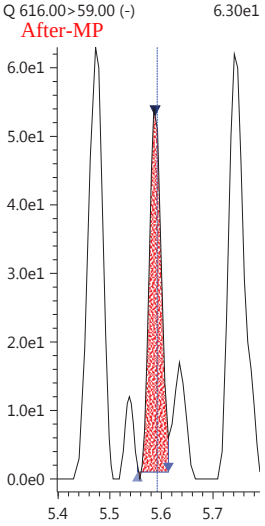
N-EtFOSA-d9
Conc 5.1014
RT 5.752 Area 1151023
Q 530.90>169.15 (-) 4.41e5



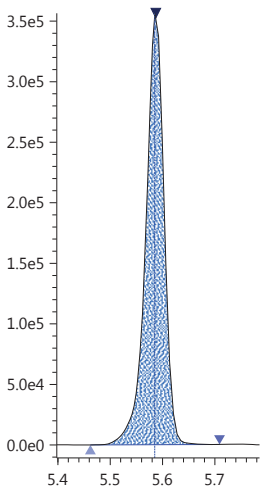
N-EtFOSA-d9_IS
Conc 5.0000
RT 5.752 Area 1151023
ISTD 530.90>169.15 (-) 4.41e5



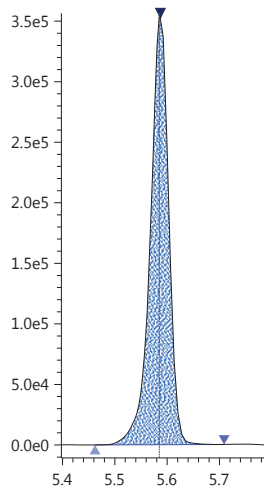
N-MeFOSE
Conc 0.0003
RT 5.588 Area 86
Q 616.00>59.00 (-) 6.30e1



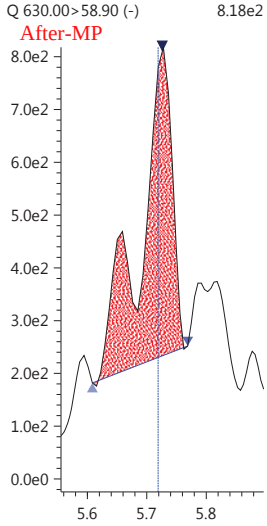
N-MeFOSE-d7
Conc 5.2860
RT 5.587 Area 869356
Q 622.70>59.10 (-) 3.56e5



N-MeFOSE-d7_IS
Conc 5.0000
RT 5.587 Area 869356
ISTD 622.70>59.10 (-) 3.56e5



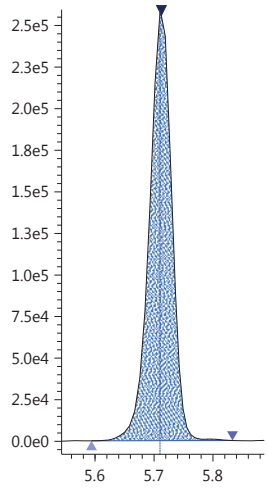
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Conc 0.0073
RT 5.726 Area 2147
Q 630.00>58.90 (-) 8.18e2



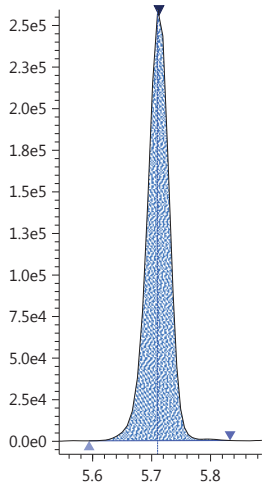
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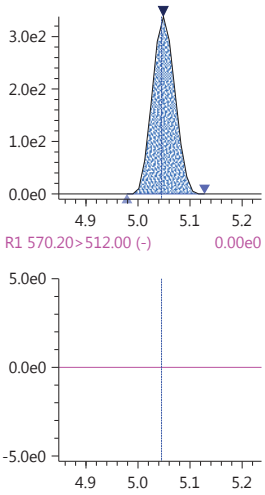
N-EtFOSE-d9
Conc 5.7479
RT 5.712 Area 684065
Q 638.70>59.10 (-) 2.60e5



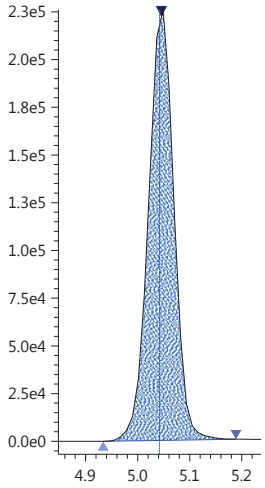
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.712 Area 684065
ISTD 638.70>59.10 (-) 2.60e5



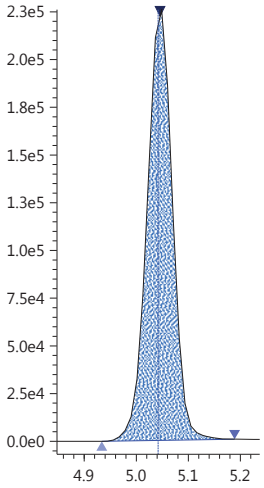
N-MeFOSAA
Conc 0.0083
RT 5.049 Area 1032
R#1 0.00 (0.00)
Q 570.20>419.00 (-) 3.38e2



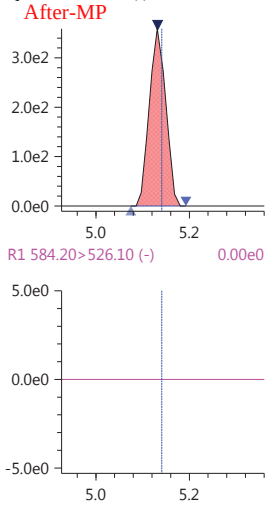
N-MeFOSAA-d3
Conc 5.0042
RT 5.046 Area 765387
Q 572.80>419.05 (-) 2.26e5



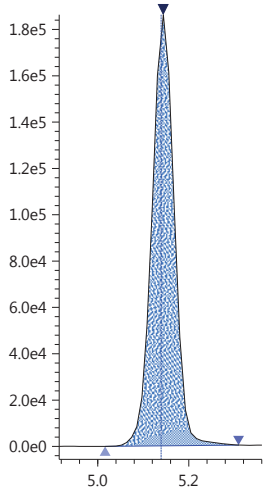
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.046 Area 765387
ISTD 572.80>419.05 (-) 2.26e5



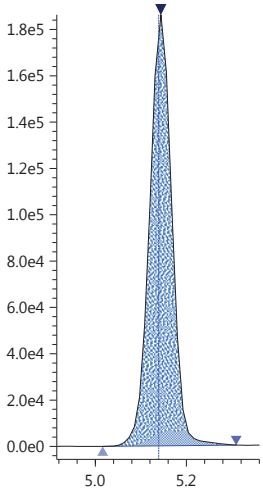
N-EtFOSAA
Conc 0.0113
RT 5.132 Area 880
R#1 0.00 (0.00)
Q 584.20>418.95 (-) 3.59e2
After-MP



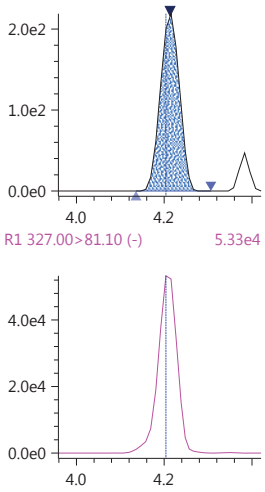
N-EtFOSAA-d5
Conc 5.0811
RT 5.144 Area 632355
Q 588.80>419.00 (-) 1.86e5



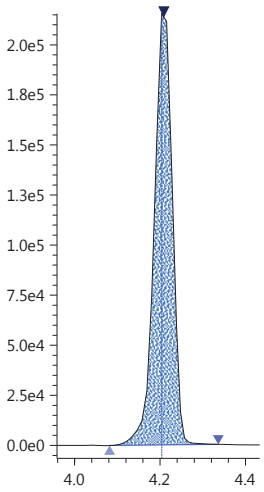
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.144 Area 632355
ISTD 588.80>419.00 (-) 1.86e5



4_2-FTS_1
Conc 0.0056
RT 4.213 Area 666
R#1 23246.67 (0.00)
Q 327.00>307.05 (-) 2.19e2



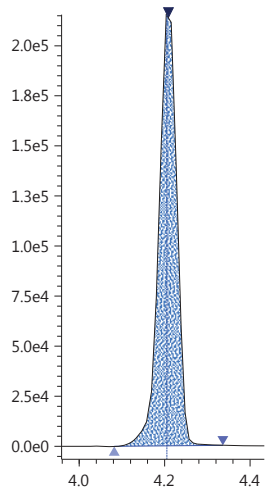
4_2-FTS-13C
Conc 6.0817
RT 4.209 Area 636906
Q 328.80>309.05 (-) 2.16e5



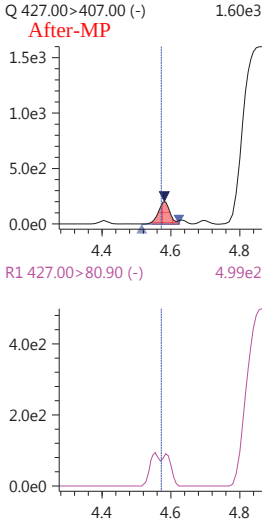
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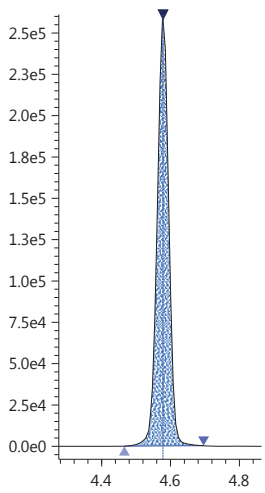
4_2-FTS-13C_IS
Conc 5.0000
RT 4.209 Area 636906



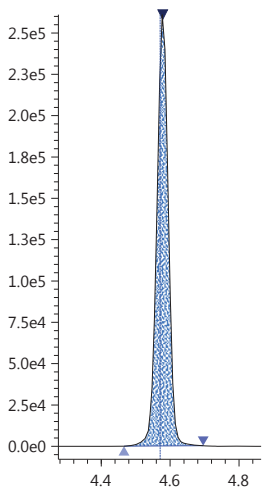
6_2-FTS_1
Conc 0.0043
RT 4.581 Area 478
R#1 42.62 (0.00)



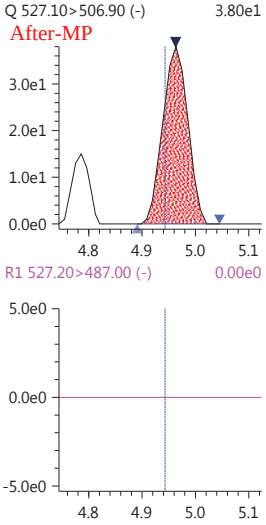
6_2-FTS-13C
Conc 5.4407
RT 4.578 Area 607309



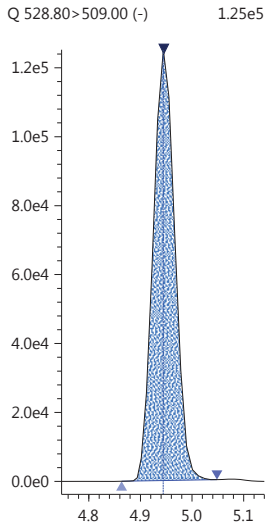
6_2-FTS-13C_IS
Conc 5.0000
RT 4.578 Area 607309



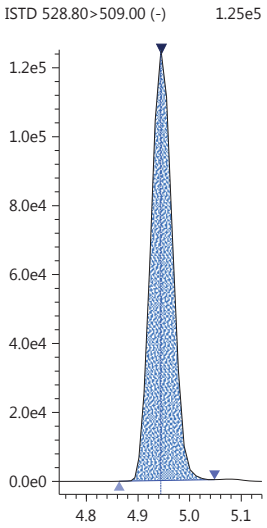
8_2-FTS_1
Conc 0.0023
RT 4.963 Area 124
R#1 0.00 (0.00)



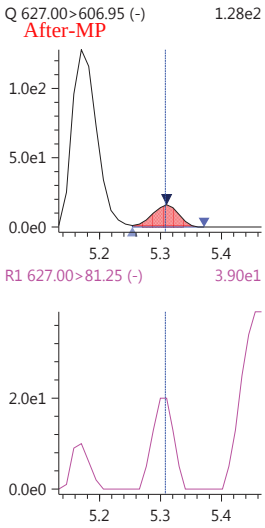
8_2-FTS-13C
Conc 5.3117
RT 4.945 Area 365806



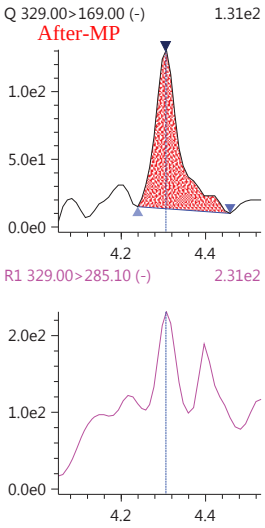
8_2-FTS-13C_IS
Conc 5.0000
RT 4.945 Area 365806



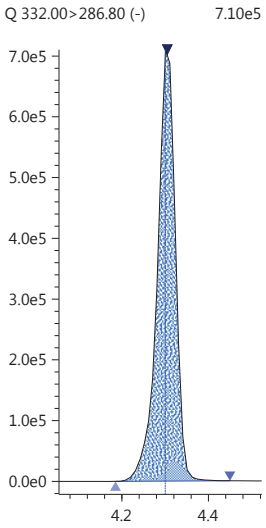
10_2-FtS_1
Conc 0.0008
RT 5.310 Area 48
R#1 126.67 (0.00)



HPFO_DA
Conc -0.0635
RT 4.305 Area 477
R#1 94.50 (0.00)



HFPO_DA-13C
Conc 5.8558
RT 4.305 Area 2060600



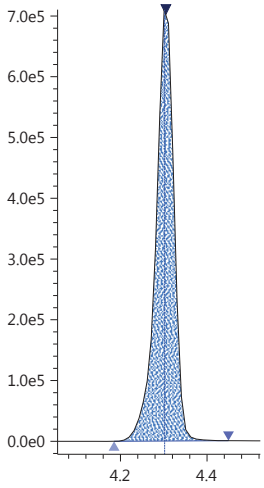
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HFPO_DA-13C_IS

Conc 5.0000
RT 4.305 Area 2060600

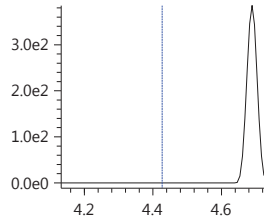
ISTD 332.00>286.80 (-) 7.10e5



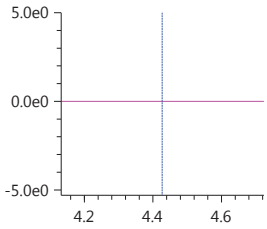
ADONA

Conc ----
RT ---- Area ----
R#1 ---- (0.00)

Q 377.00>251.00 (-) 3.85e2



R1 377.00>84.95 (-) 0.00e0



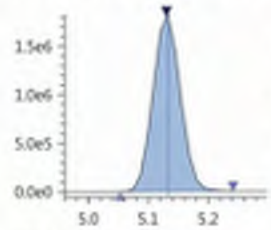
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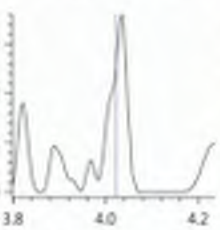
190920_018

Sample ID: IB
Date acquired: 9/20/2019 5:28:46 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_018.lcd
Vial: 15 | Inj. Volume: 15.0000uL | Tray: 1

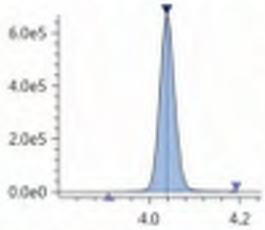
13C7-PFUnDA_IS
Conc 5.0000
RT 5.130 Area 5838290
ISTD 570.00>525.00 (-) 1.83e6



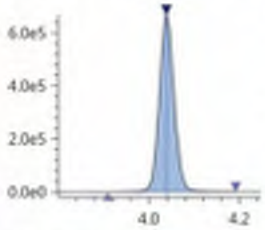
PFBS_1
Conc ----
RT ---- Area ----
Q 299.00>80.00 (-) 1.80e2



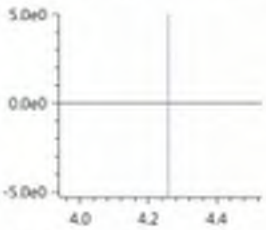
PFBS-13C
Conc 5.3771
RT 4.038 Area 1532385
Q 301.80>80.00 (-) 6.69e5



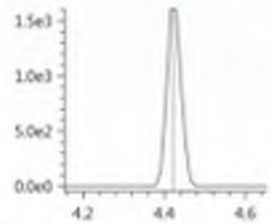
PFBS-13C_IS
Conc 5.0000
RT 4.038 Area 1532385
ISTD 301.80>80.00 (-) 6.69e5



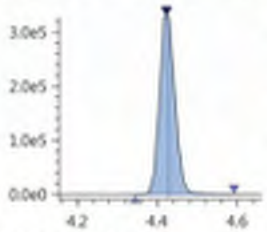
PFPeS
Conc ----
RT ---- Area ----
Q 349.00>99.00 (-) 0.00e0



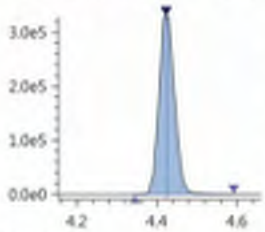
PFHxS_1
Conc ----
RT ---- Area ----
Q 399.00>80.00 (-) 1.61e3



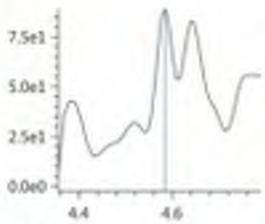
PFHxS-18O
Conc 5.4881
RT 4.423 Area 892620
Q 402.70>84.05 (-) 3.28e5



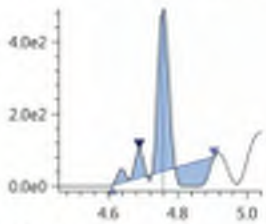
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Conc 5.0000
RT 4.423 Area 892620
ISTD 402.70>84.05 (-) 3.28e5



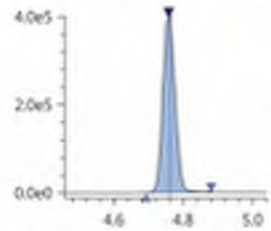
PFHpS_1
Conc ----
RT ---- Area ----
Q 449.00>80.15 (-) 8.90e1



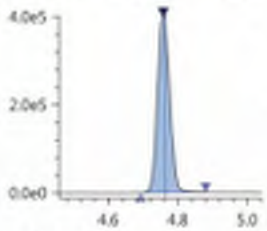
PFOS_1
Conc 0.0037
RT 4.689 Area 786
Q 499.00>80.00 (-) 4.91e2



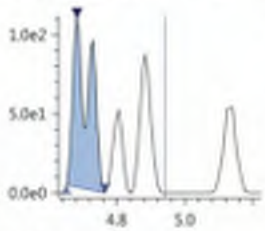
PFOS-13C
Conc 6.3035
RT 4.757 Area 999472
Q 502.80>80.05 (-) 4.02e5



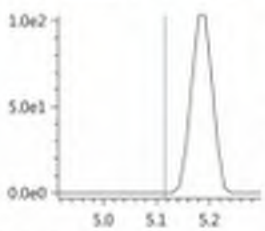
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ISTD 502.80>80.05 (-) 4.02e5



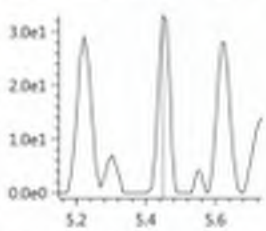
PFNS
Conc 0.0027
RT 4.683 Area 370
Q 549.00>99.00 (-) 1.12e2



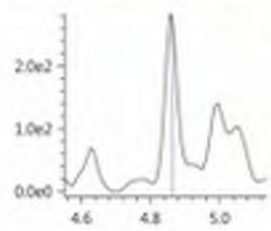
PFDS_1
Conc ----
RT ---- Area ----
Q 599.00>79.90 (-) 1.03e2



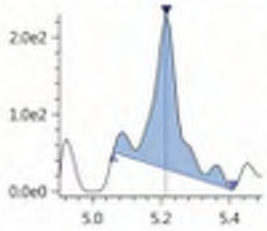
PFDOS
Conc ----
RT ---- Area ----
Q 699.00>79.95 (-) 3.30e1



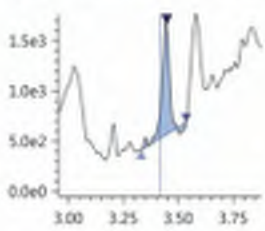
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Conc ----
RT ---- Area ----
Q 531.00>351.00 (-) 2.83e2



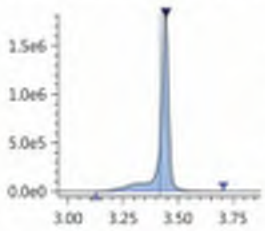
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Conc 0.0012
RT 5.215 Area 1066
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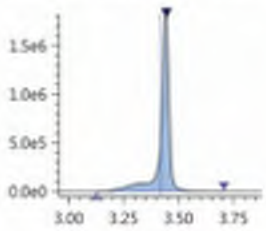
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Conc 0.0022
RT 3.447 Area 2556
Q 213.00>169.10 (-) 1.77e3



PFBA-13C
Conc 5.1578
RT 3.444 Area 4807885
Q 216.90>172.15 (-) 1.83e6



PFBA-13C_IS
Conc 5.0000
RT 3.444 Area 4807885
ISTD 216.90>172.15 (-) 1.83e6

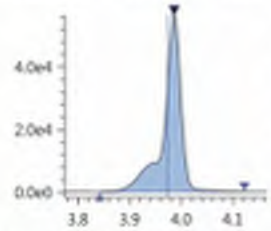


Manual Integration - Before

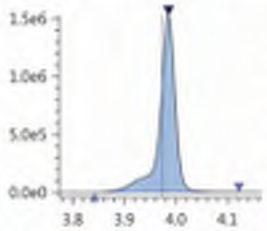
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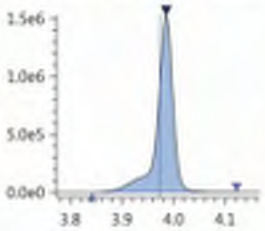
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Q 263.05>219.10 (-) 5.66e4



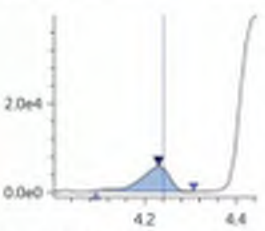
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Conc 5.2689
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Q 267.90>223.00 (-) 1.53e6



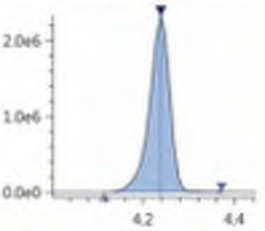
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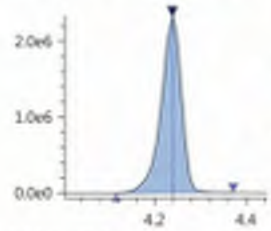
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Q 313.00>269.00 (-) 3.99e4



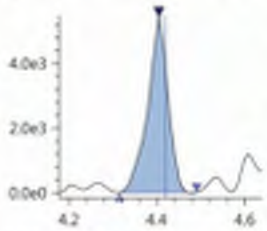
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RT 4.239 Area 7240478
Q 314.90>270.10 (-) 2.34e6



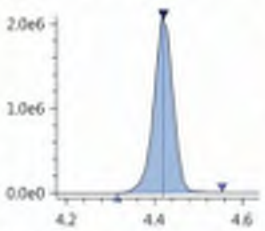
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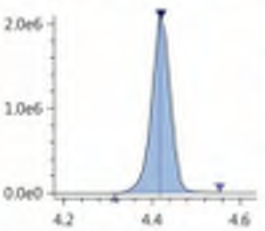
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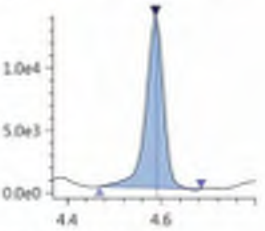
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Q 366.90>322.10 (-) 2.10e6



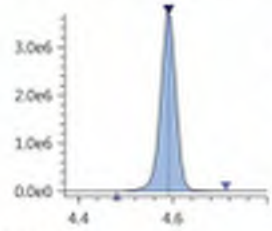
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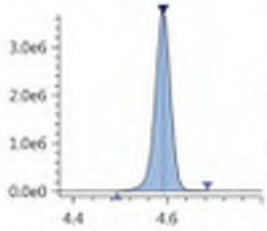
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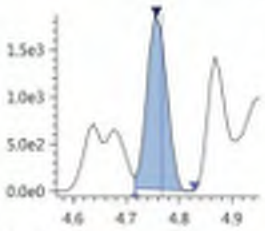
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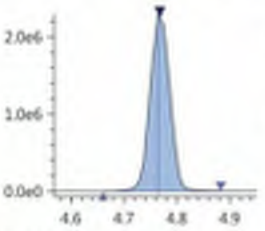
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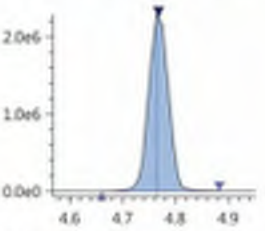
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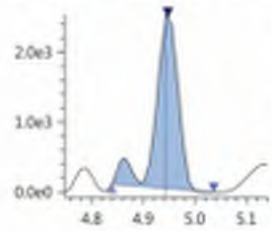
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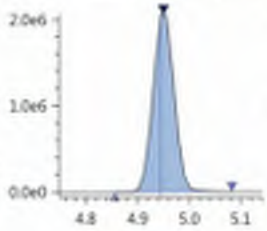
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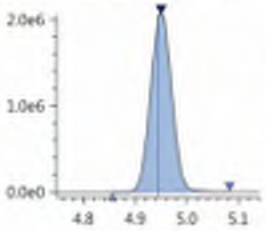
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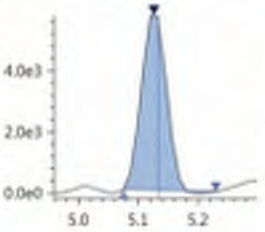
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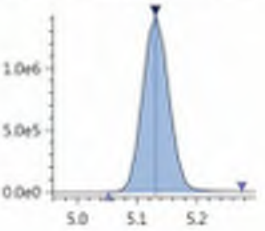
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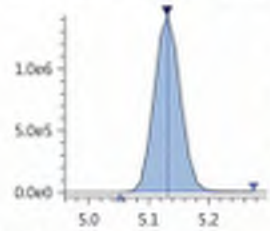
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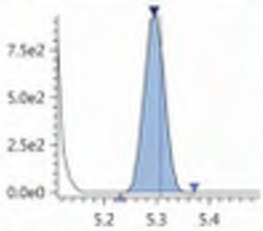
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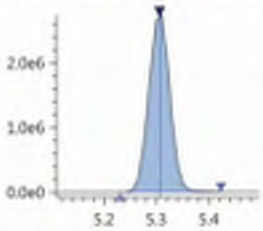
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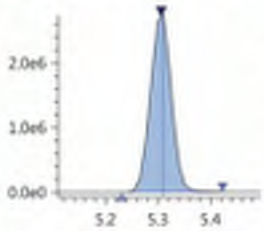
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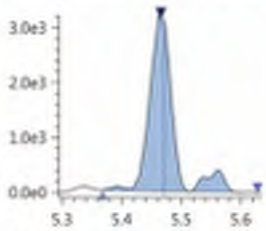
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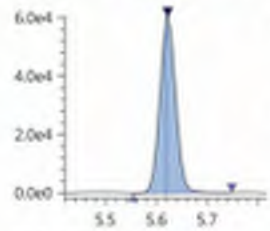
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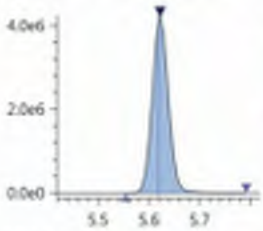
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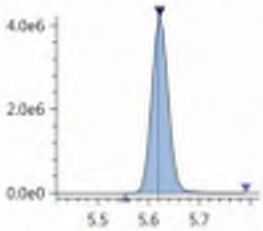
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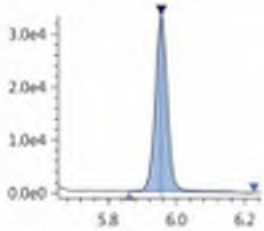
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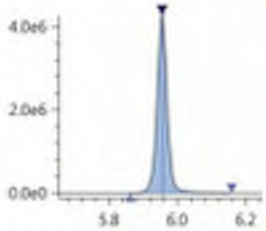
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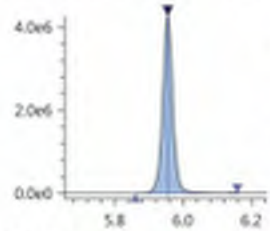
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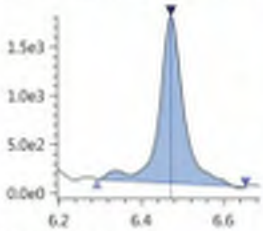
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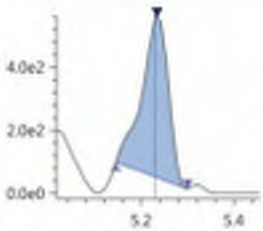
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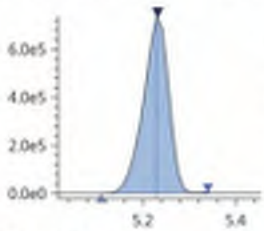
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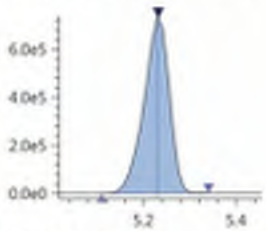
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Q 498.20>78.00 (-) 5.62e2



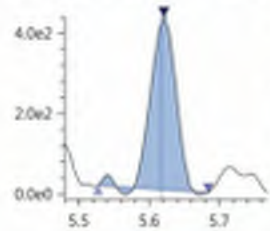
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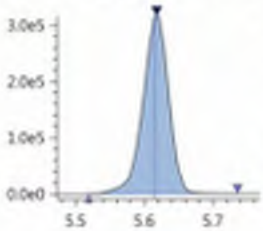
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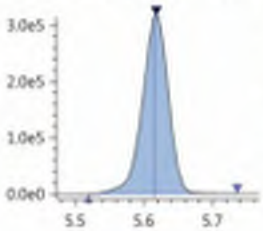
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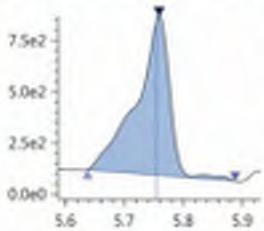
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Conc 5.3079
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Q 514.90>168.90 (-) 3.15e5



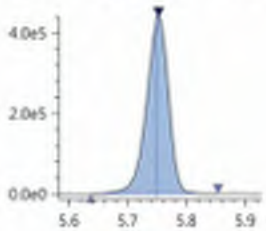
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ISTD 514.90>168.90 (-) 3.15e5



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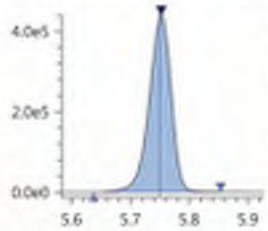
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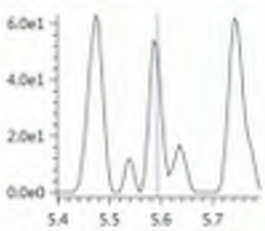
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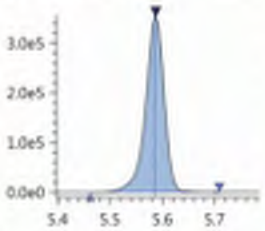
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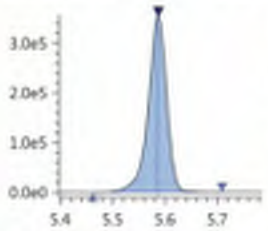
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Conc ----
RT ---- Area ----
Q 616.00>59.00 (-) 6.30e1



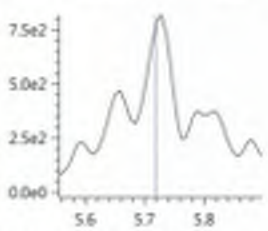
N-MeFOSE-d7
Conc 5.2860
RT 5.587 Area 869356
Q 622.70>59.10 (-) 3.56e5



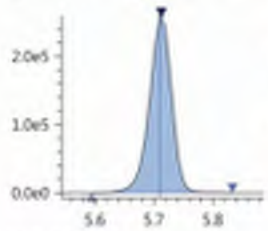
N-MeFOSE-d7_IS
Conc 5.0000
RT 5.587 Area 869356
ISTD 622.70>59.10 (-) 3.56e5



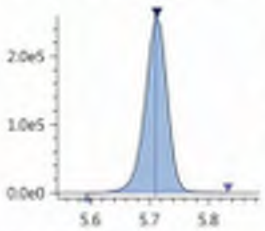
N-EtFOSE
Conc ----
RT ---- Area ----
Q 630.00>58.90 (-) 8.18e2



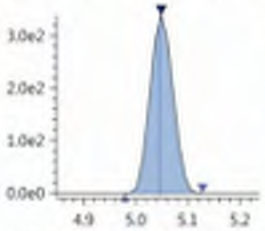
N-EtFOSE-d9
Conc 5.7479
RT 5.712 Area 684065
Q 638.70>59.10 (-) 2.60e5



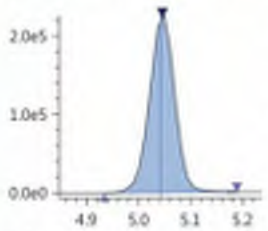
N-EtFOSE-d9_IS
Conc 5.0000
RT 5.712 Area 684065
ISTD 638.70>59.10 (-) 2.60e5



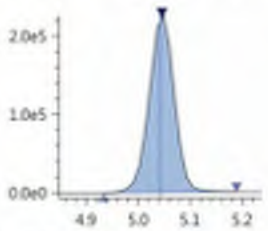
N-MeFOSAA
Conc 0.0082
RT 5.049 Area 1032
Q 570.20>419.00 (-) 3.38e2



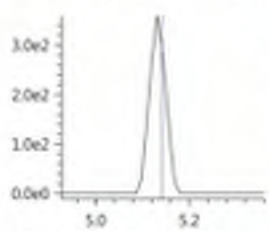
N-MeFOSAA-d3
Conc 5.0042
RT 5.046 Area 765387
Q 572.80>419.05 (-) 2.26e5



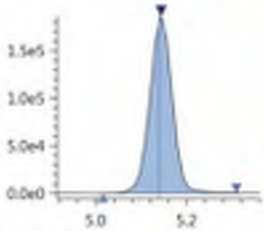
N-MeFOSAA-d3_IS
Conc 5.0000
RT 5.046 Area 765387
ISTD 572.80>419.05 (-) 2.26e5



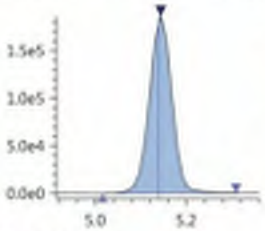
N-EtFOSAA
Conc ----
RT ---- Area ----
Q 584.20>418.95 (-) 3.59e2



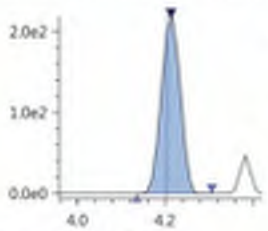
N-EtFOSAA-d5
Conc 5.0811
RT 5.144 Area 632355
Q 588.80>419.00 (-) 1.86e5



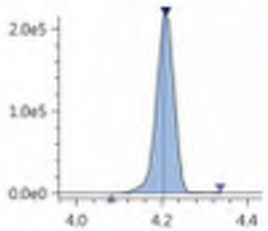
N-EtFOSAA-d5_IS
Conc 5.0000
RT 5.144 Area 632355
ISTD 588.80>419.00 (-) 1.86e5



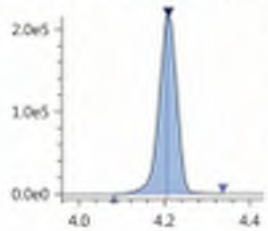
4_2-FTS_1
Conc 0.0055
RT 4.213 Area 666
Q 327.00>307.05 (-) 2.19e2



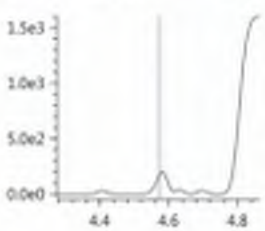
4_2-FTS-13C
Conc 6.0817
RT 4.209 Area 636906
Q 328.80>309.05 (-) 2.16e5



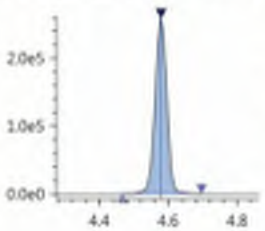
4_2-FTS-13C_IS
Conc 5.0000
RT 4.209 Area 636906
ISTD 328.80>309.05 (-) 2.16e5



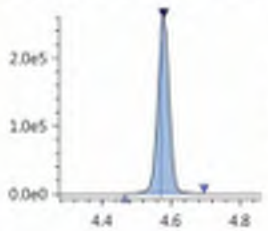
6_2-FTS_1
Conc ----
RT ---- Area ----
Q 427.00>407.00 (-) 1.60e3



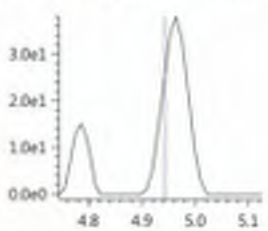
6_2-FTS-13C
Conc 5.4407
RT 4.578 Area 607309
Q 428.90>409.00 (-) 2.61e5



6_2-FTS-13C_IS
Conc 5.0000
RT 4.578 Area 607309
ISTD 428.90>409.00 (-) 2.61e5



8_2-FTS_1
Conc ----
RT ---- Area ----
Q 527.10>506.90 (-) 3.80e1

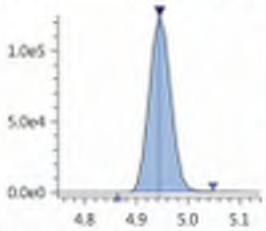


Manual Integration - Before

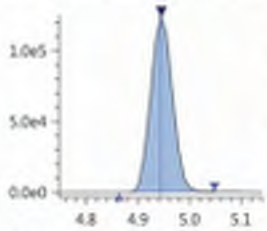
Insight Report

Printed at 9/23/2019 12:21:43 PM

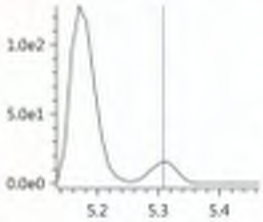
8_2-FTS-13C
Conc 5.3117
RT 4.945 Area 365806
Q 528.80>509.00 (-) 1.25e5



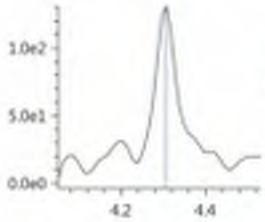
8_2-FTS-13C_IS
Conc 5.0000
RT 4.945 Area 365806
ISTD 528.80>509.00 (-) 1.25e5



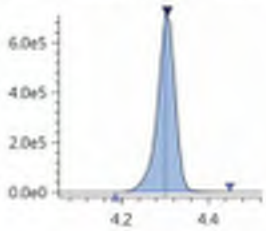
10_2-FtS_1
Conc ----
RT ---- Area ----
Q 627.00>606.95 (-) 1.28e2



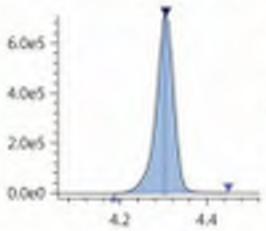
HPFO_DA
Conc ----
RT ---- Area ----
Q 329.00>169.00 (-) 1.31e2



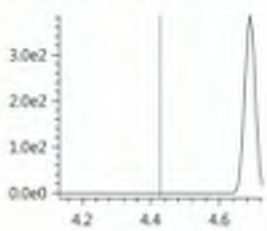
HFPO_DA-13C
Conc 5.8558
RT 4.305 Area 2060600
Q 332.00>286.80 (-) 7.10e5



HFPO_DA-13C_IS
Conc 5.0000
RT 4.305 Area 2060600
ISTD 332.00>286.80 (-) 7.10e5



ADONA
Conc ----
RT ---- Area ----
Q 377.00>251.00 (-) 3.85e2



Manual Integration - Before

Insight Report

Printed at 9/23/2019 2:27:44 PM

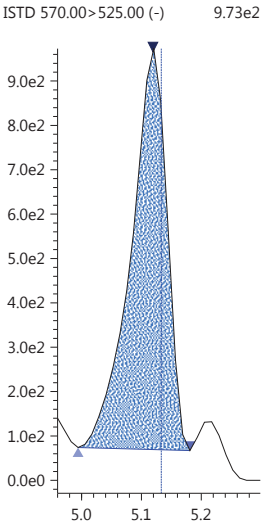
Method File: J:\LCMS06\Data\190920_curve\190920_curve.lcm
Project File: J:\LCMS06\Data\190920_curve\190920_curve.damlp
Flags File: J:\LCMS06\Data\190920_curve\190920_curve.damlp

190920_019

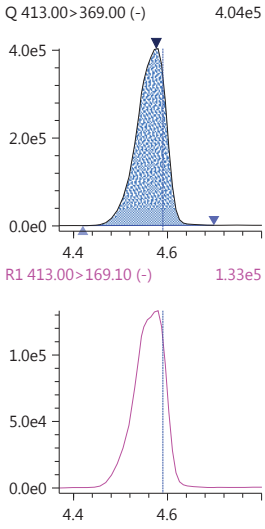
Sample ID: T-PFOA
Date acquired: 9/20/2019 5:39:50 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_019.lcd
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	ISTD Group	Conc.	Unit	Std. Conc.
13C7-PFUnDA_IS	Auto	5.119	3784	3784	1	5.0000	ng/mL	----
PFOA	Auto	4.576	1774411	----	9	0.0000	ng/mL	----
PFOA-13C	ND(W/B)	----	----	3784	1	----	ng/mL	----
PFOA-13C_IS	ND(W/B)	----	----	----	9	----	ng/mL	----

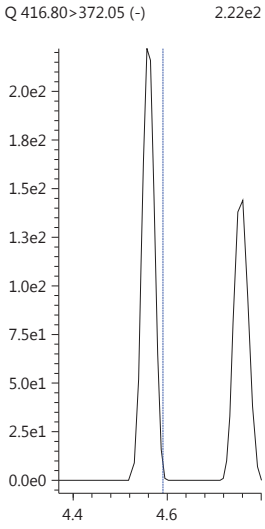
13C7-PFUnDA_IS
Conc 5.0000
RT 5.119 Area 3784



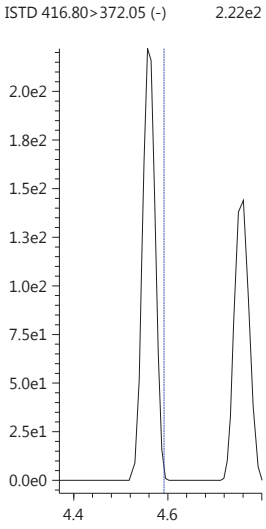
PFOA
Conc 0.0000
RT 4.576 Area 1774411
R#1 33.02 (0.00)



PFOA-13C
Conc ----
RT ---- Area ----



PFOA-13C_IS
Conc ----
RT ---- Area ----



Insight Report

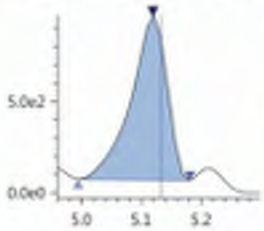
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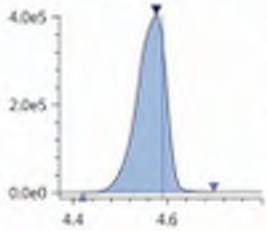
190920_019

Sample ID: T-PFOA
Date acquired: 9/20/2019 5:39:50 PM
Acquired by: System Administrator
Data File: J:\LCMS06\Data\190920_curve\190920_019.lcd
Vial: 9 | Inj. Volume: 15.0000uL | Tray: 0

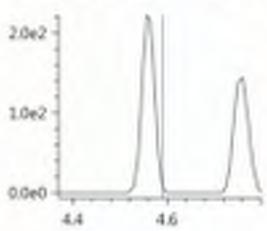
13C7-PFUnDA_IS
Conc 5.0000
RT 5.119 Area 3784
ISTD 570.00>525.00 (-) 9.73e2



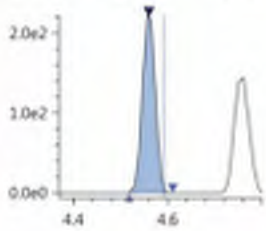
PFOA
Conc 17029.3888
RT 4.576 Area 1774411
Q 413.00>369.00 (-) 4.04e5



PFOA-13C
Conc ----
RT ---- Area ----
Q 416.80>372.05 (-) 2.22e2



PFOA-13C_IS
Conc 5.0000
RT 4.560 Area 425
ISTD 416.80>372.05 (-) 2.22e2



Manual Integration - Before

190917_b9

ICAL Date: 9/17/2019
Std. xp: 2/28/2020
ICAL ID: KC1900381
LIMS ID: 651768

1st Review: LDonnels
2nd Review:
LCMS06 -Shimadzu 8050
Column: Phenomenex EVO-C18 100X4.6 mm S/N: H19-206919
Mobile Phases A: 5mM Ammonium Acetate in H2O 19-OLC-02-48P B: 5mM Ammonium Acetate in MeOH 19-OLC-02-48Q

	Sample Name		File Name	Acquisition Method	Dilution	R	
1	1.0 PPB CCV	19-OLC-01-52P	190917_224	PFAS_190816_35_CM.lcm	1x	☒	High PFBS, HpA surr, natives ok. High 8:2, EtFOSAA, PFDS, samples ND
2	IB	19-OLC-01-52O	190917_225	PFAS_190816_35_CM.lcm	1x	☒	high PFBS surr, high bias < MRL. High HxS, PFOS, HpA, PFDA, DoA, FOSA surr, high bias ND
3	KQ1913122-06	MB	190917_226	PFAS_190816_35_CM.lcm	1x	☒	
4	KQ1913122-05	LCS	190917_227	PFAS_190816_35_CM.lcm	1x	☒	
5	R1908707-001		190917_228	PFAS_190816_35_CM.lcm	1x	☒	High HxS surr, high bias ND
6	R1908707-002		190917_229	PFAS_190816_35_CM.lcm	1x	☒	
7	KQ19131226-01	R1908707-002 MS	190917_230	PFAS_190816_35_CM.lcm	1x	☒	high MeFOSAA recovery, RPD out with MS. All field samples < MRL, narrate increased variability for this analyte in this matrix
8	KQ19131226-02	R1908707-002 DMS	190917_231	PFAS_190816_35_CM.lcm	1x	☒	High PFBS, HxS, PFBA, HpA, PFDA surr, natives in control. High PFOS, PFDS, PFDoA recovery, LCS ok, RPD with MS ok
9	R1908707-003		190917_232	PFAS_190816_35_CM.lcm	1x	☒	
10	R1908707-004		190917_233	PFAS_190816_35_CM.lcm	1x	☒	High HxS, PFBS surr, high bias ND. High PFBA surr, > MRL, RR to confirm
11	R1908707-005		190917_234	PFAS_190816_35_CM.lcm	1x	☒	High HxS surr, high bias ND
12	R1908707-006		190917_235	PFAS_190816_35_CM.lcm	1x	☒	High HxS, PFBS surr, high bias ND
13	R1908752-001		190917_236	PFAS_190816_35_CM.lcm	1x	☒	
14	R1908752-002		190917_237	PFAS_190816_35_CM.lcm	1x	☒	High PFBA, HxS, PFBS surr, high bias ND
15	R1908752-003		190917_238	PFAS_190816_35_CM.lcm	1x	☒	
16	R1908752-004		190917_239	PFAS_190816_35_CM.lcm	1x	☒	High PFBA, HxS, PFBS surr, high bias < MRL
17	KQ19131226-03	R1908752-004 MS	190917_240	PFAS_190816_35_CM.lcm	1x	☒	High PFBA, PFBS surr, natives ok. High PFOS, PFDA, DoA recovery, LCS in control, RPD with DMS ok. High RPD for 8:2, MeFOSAA, EtFOSAA, narrate increased uncertainty in this matrix, samples < MRL
18	KQ19131226-04	R1908752-004 DMS	190917_241	PFAS_190816_35_CM.lcm	1x	☒	High PFDA recovery, LCS in control, RPD with MS ok. High RPD for 8:2, MeFOSAA, EtFOSAA, narrate increased uncertainty in this matrix, samples < MRL
19	R1908752-005		190917_242	PFAS_190816_35_CM.lcm	1x	☒	High PFDA, HpA, PFBA, HxS, PFBS surr, high bias < MRL
20	R1908752-006		190917_243	PFAS_190816_35_CM.lcm	1x	☒	
21	R1908752-007		190917_244	PFAS_190816_35_CM.lcm	1x	☒	
22	R1908752-008		190917_245	PFAS_190816_35_CM.lcm	1x	☒	

190923_b2

ICAL Date: 9/20/2019
Std. xp: 2/28/2020
ICAL ID: KC1900392
LIMS ID: 652554

1st Review: LDomreis
2nd Review:
LCMS06 -Shimadzu 8050
Column: Phenomenex EVO-C18 100X4.6 mm S/N: H19-206919
Mobile Phases **A:** 5mM Ammonium Acetate in H2O 19-OLC-02-491 **B:** 5mM Ammonium Acetate in MeOH 19-OLC-02-491

	Sample Name		File Name	Acquisition Method	Dilution	R	
1	1.0 PPB ICAL	19-OLC-01-51D	190923_022	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	High EtFOSAA surr, low 4:2 surr, natives ok
2	IB	19-OLC-01-52O	190923_023	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	
3	LOT CHECK MB	S322-0026	190923_024	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	High HxS surr, high bias ND
4	R1908707-004		190923_025	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	report only PFBA (high surr in original)
5	R1908674-006		190923_026	PFAS_190920_35_LONG_LCMS06.lcm	1x	☒	

Analysis: PFC	IS/Lot/Exp.: 500 ppb PFUNDA 19-ALC-01-52A exp 3/11/20			Filter lot: 90330103		Solvent/Lot: NA	
Sample ID	IS Amount	Sample Aliquot	Final Volume	Dilution Factor	Date Prepared	Analyst	Analyte for dilution
R1908707-004	10 uL	990 uL	1 mL	1x	9/23/2019	EBD	High PFBA hit > MRL
~~K~~1908674-006 (kicked) R EBD 9/28/19	10 uL	990 uL	1 mL	1X	9/23/2019		low IS
SPE lot check MB	10 uL	990 uL	1 mL	1X	9/23/2019		low IS

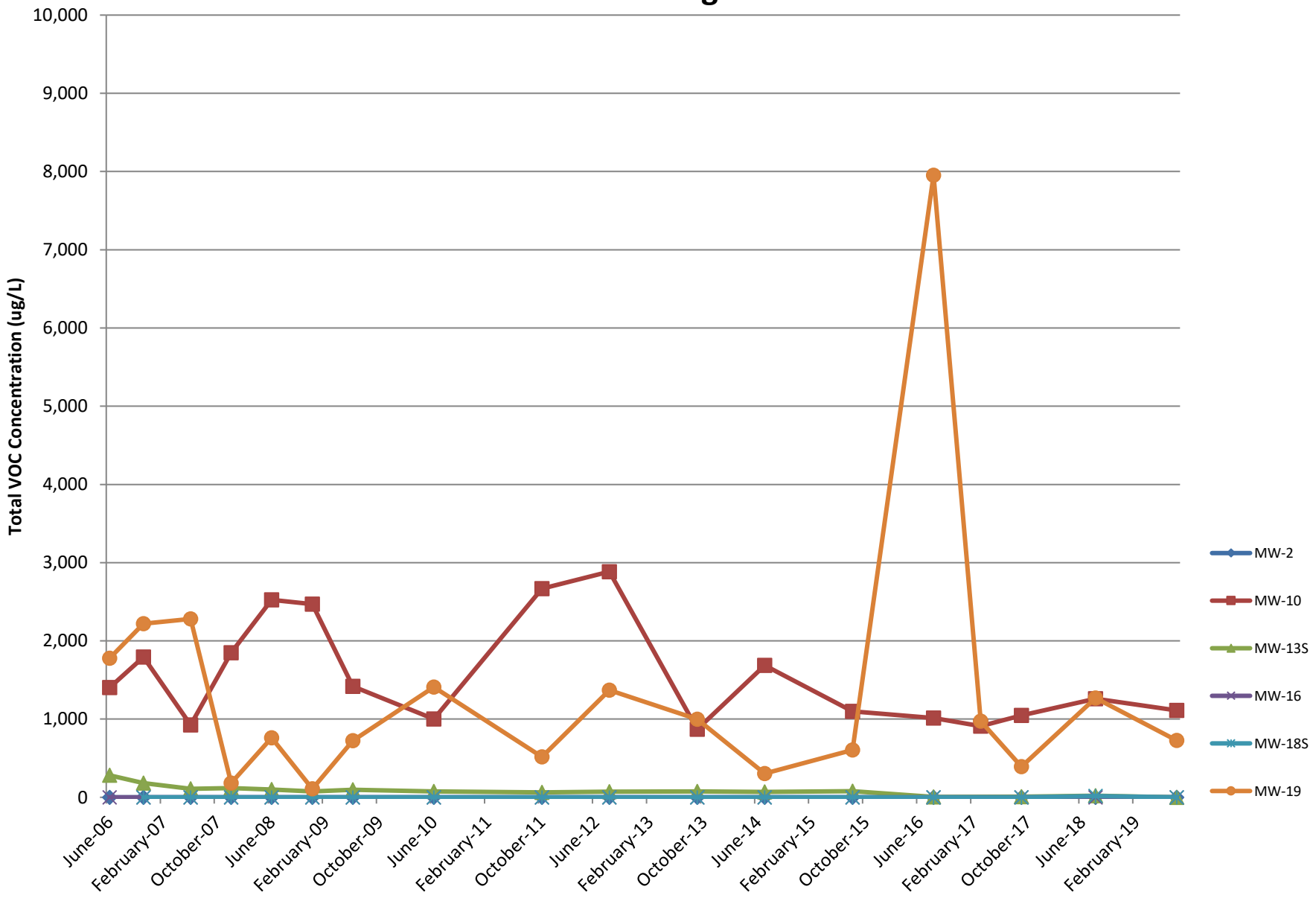
Archive: Golden Gun

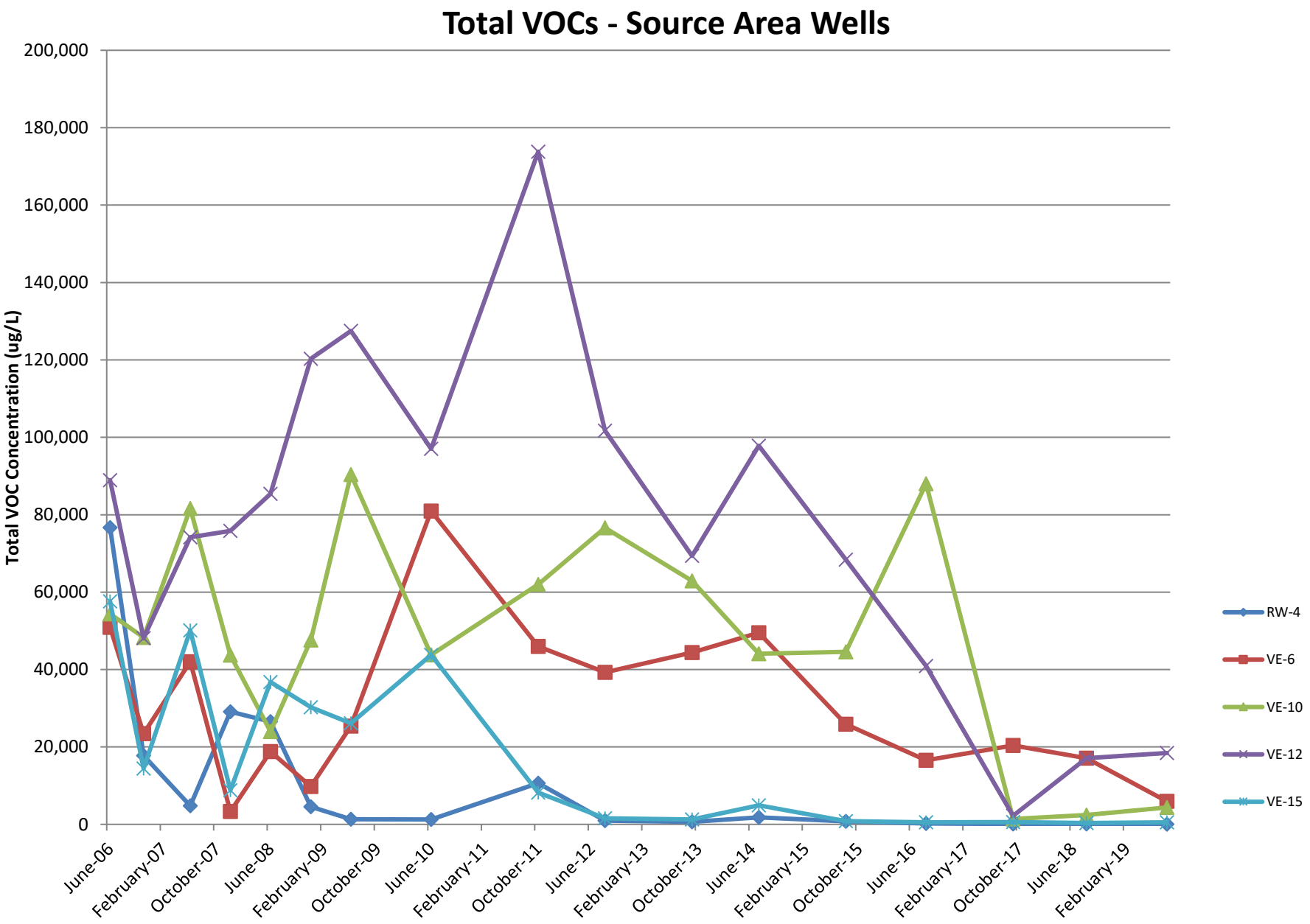
Pipets: Curie, Pasteur

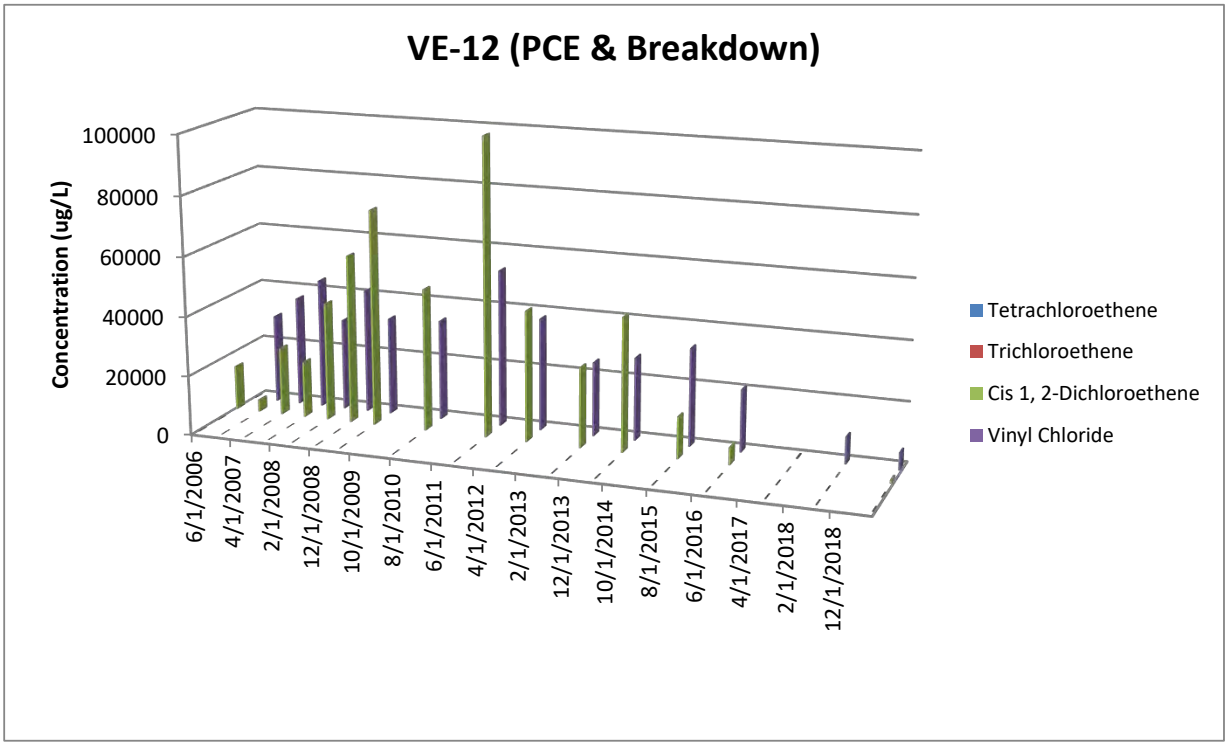
APPENDIX C

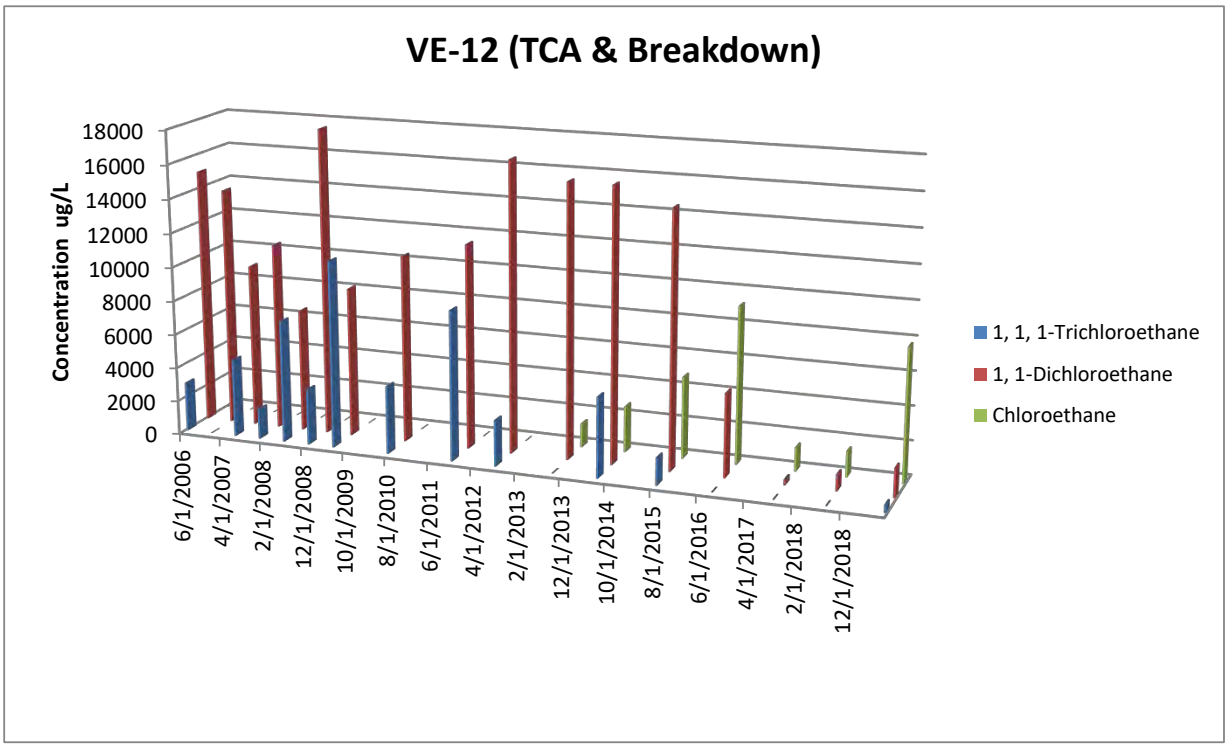
Time vs. Concentration Graphs

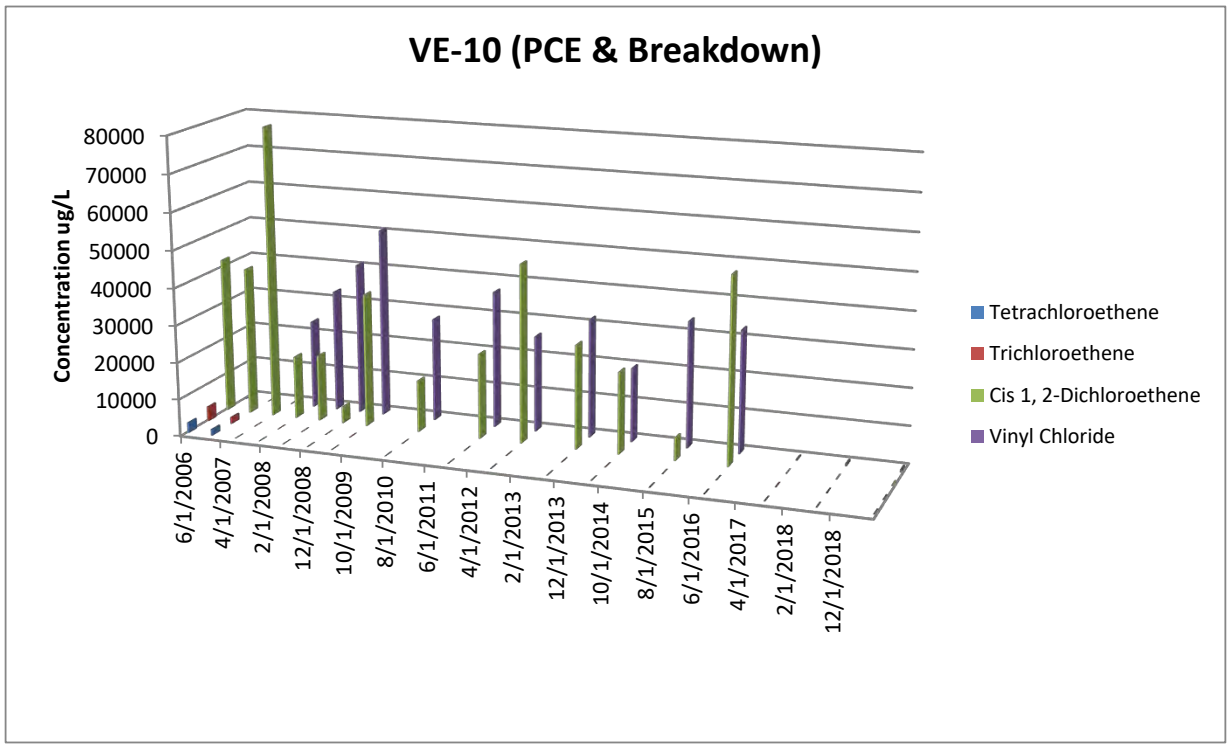
Total VOCs - Downgradient Wells

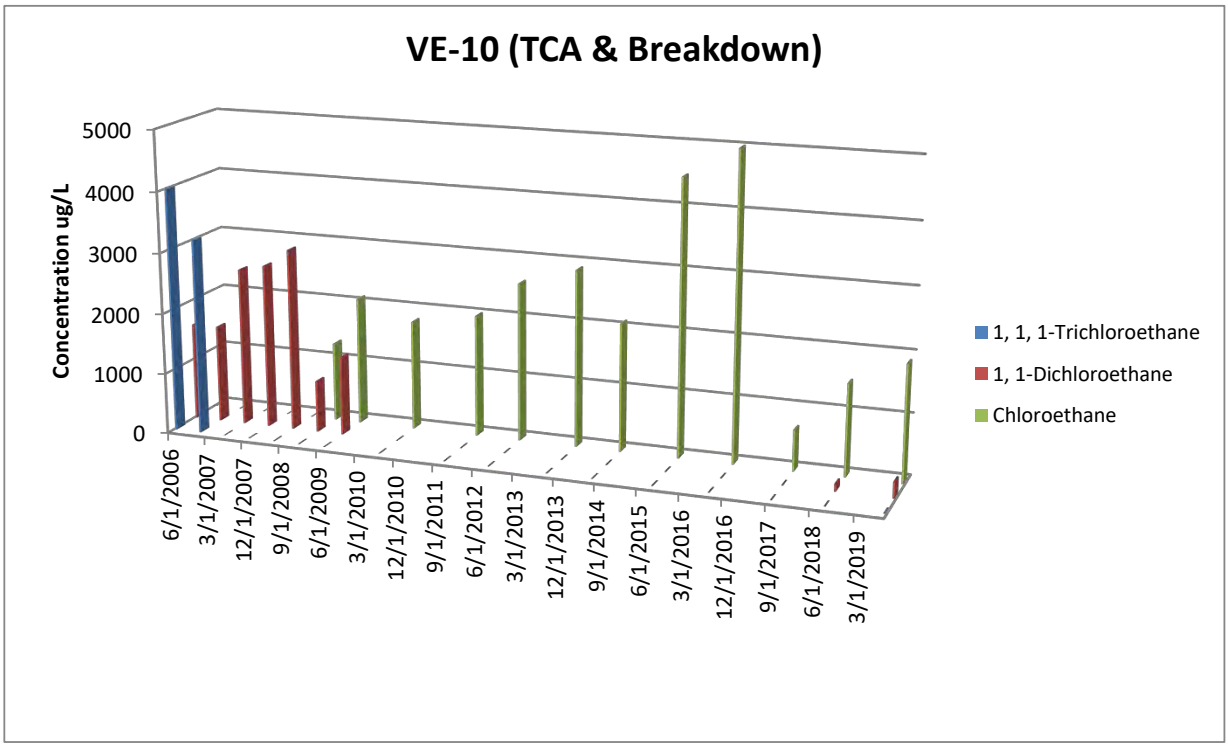


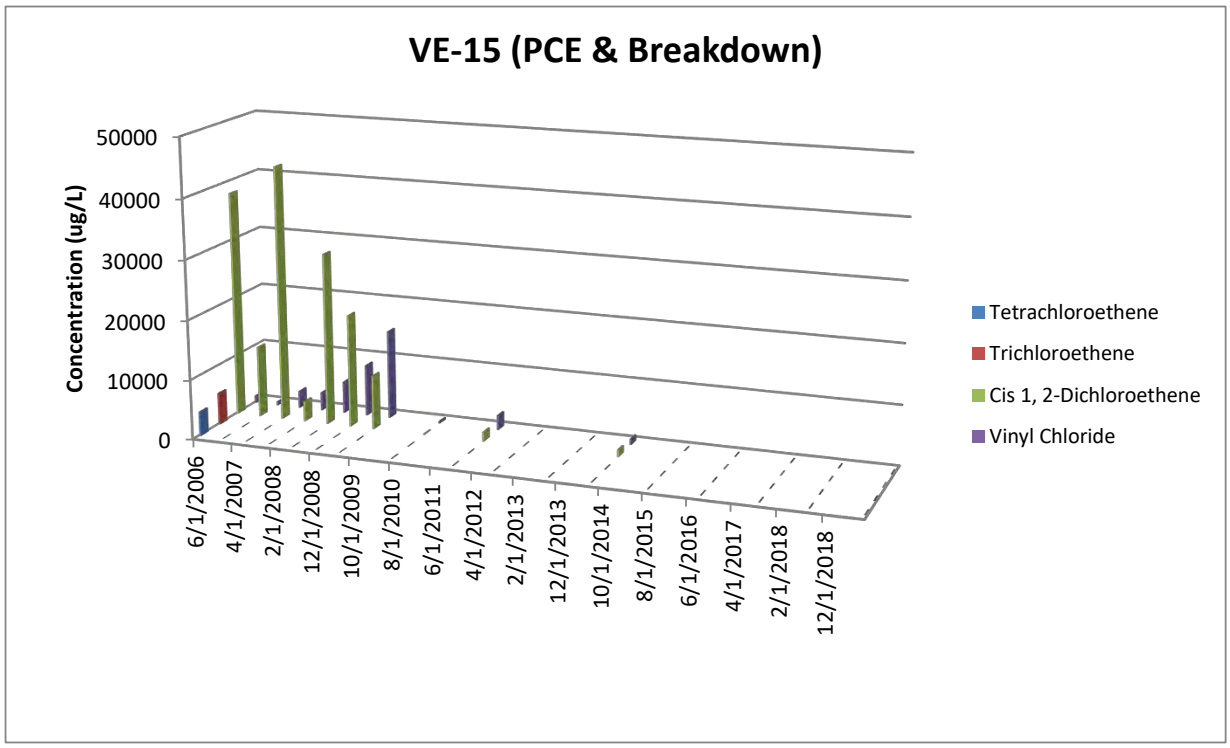

Total VOCs - Source Area Wells
Total VOC Concentration (ug/L)
200,000
180,000
160,000
140,000
120,000
100,000
80,000
60,000
40,000
20,000
0
June-06
February-07
October-07
June-08
February-09
October-09
June-10
February-11
October-11
June-12
February-13
October-13
June-14
February-15
October-15
June-16
February-17
October-17
June-18
February-19
RW-4
VE-6
VE-10
VE-12
VE-15

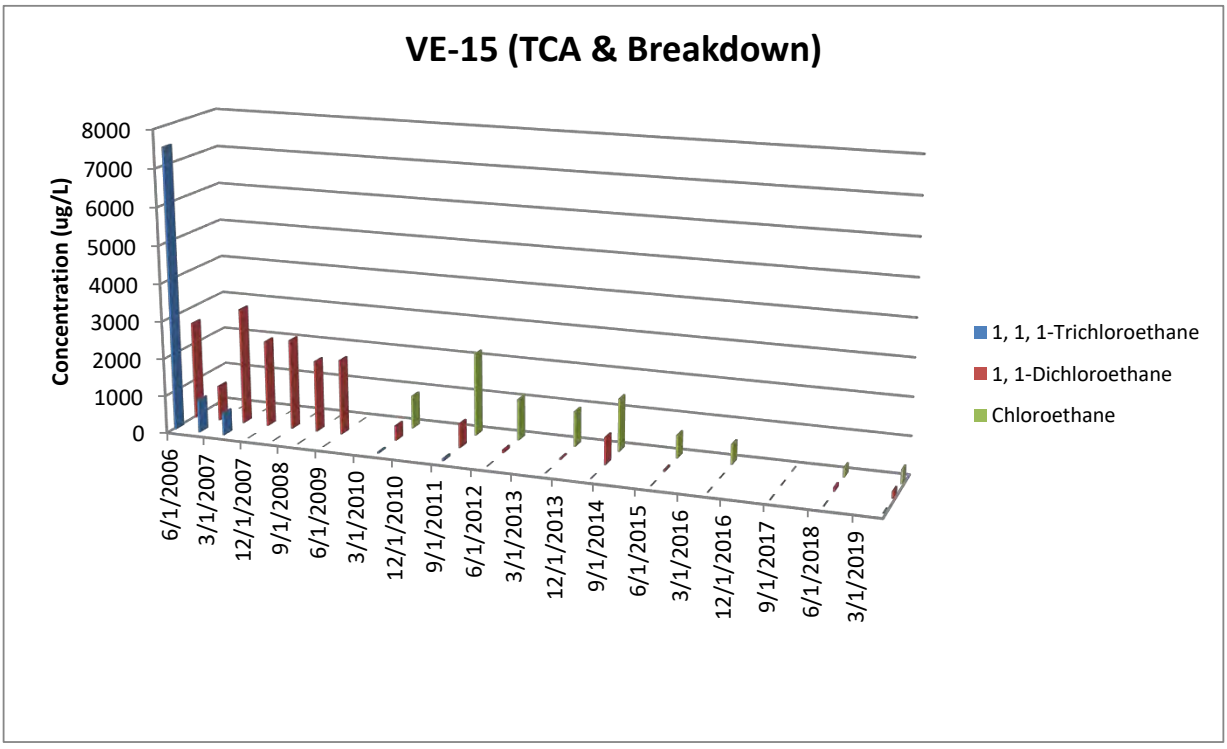

VE-12 (PCE & Breakdown)
Concentration (ug/L)
100000
80000
60000
40000
20000
0
6/1/2006
4/1/2007
2/1/2008
12/1/2008
10/1/2009
8/1/2010
6/1/2011
4/1/2012
2/1/2013
12/1/2013
10/1/2014
8/1/2015
6/1/2016
4/1/2017
2/1/2018
12/1/2018
Tetrachloroethene
Trichloroethene
Cis 1, 2-Dichloroethene
Vinyl Chloride

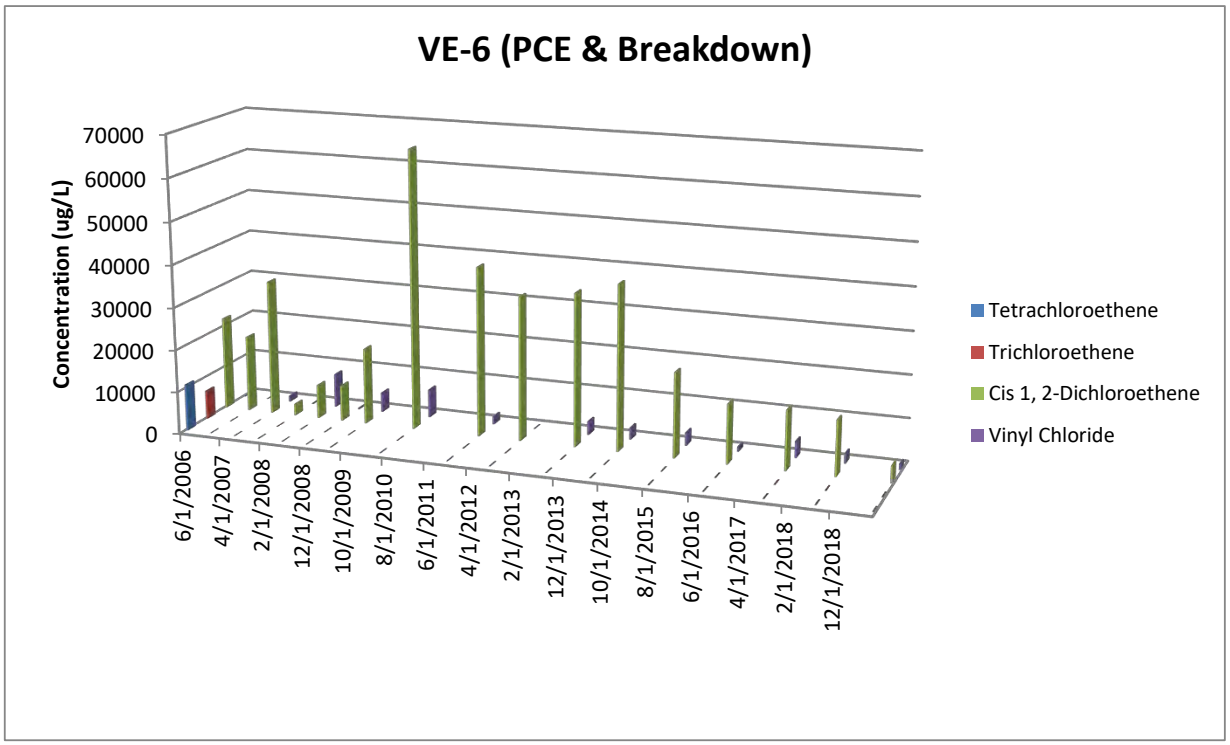

VE-12 (TCA & Breakdown)
Concentration ug/L
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
6/1/2006
4/1/2007
2/1/2008
12/1/2008
10/1/2009
8/1/2010
6/1/2011
4/1/2012
2/1/2013
12/1/2013
10/1/2014
8/1/2015
6/1/2016
4/1/2017
2/1/2018
12/1/2018
1, 1, 1-Trichloroethane
1, 1-Dichloroethane
Chloroethane

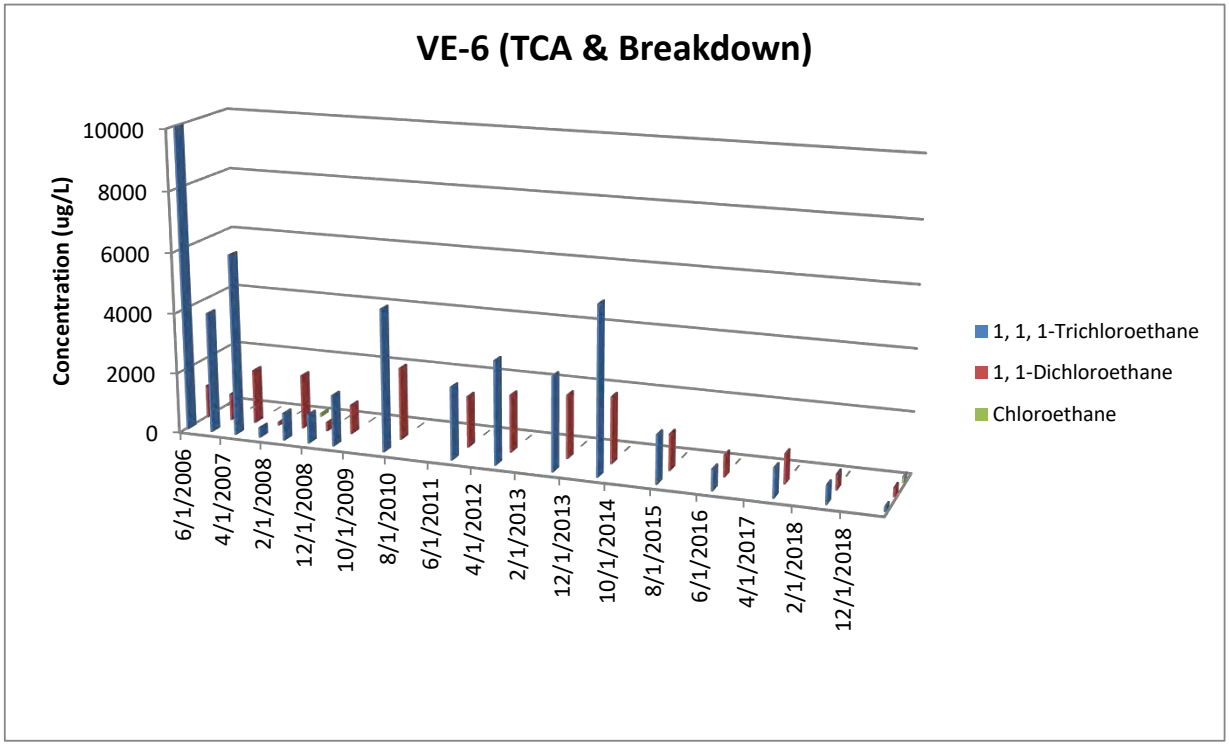

VE-10 (PCE & Breakdown)
Concentration ug/L
80000
70000
60000
50000
40000
30000
20000
10000
0
6/1/2006
4/1/2007
2/1/2008
12/1/2008
10/1/2009
8/1/2010
6/1/2011
4/1/2012
2/1/2013
12/1/2013
10/1/2014
8/1/2015
6/1/2016
4/1/2017
2/1/2018
12/1/2018
Tetrachloroethene
Trichloroethene
Cis 1, 2-Dichloroethene
Vinyl Chloride

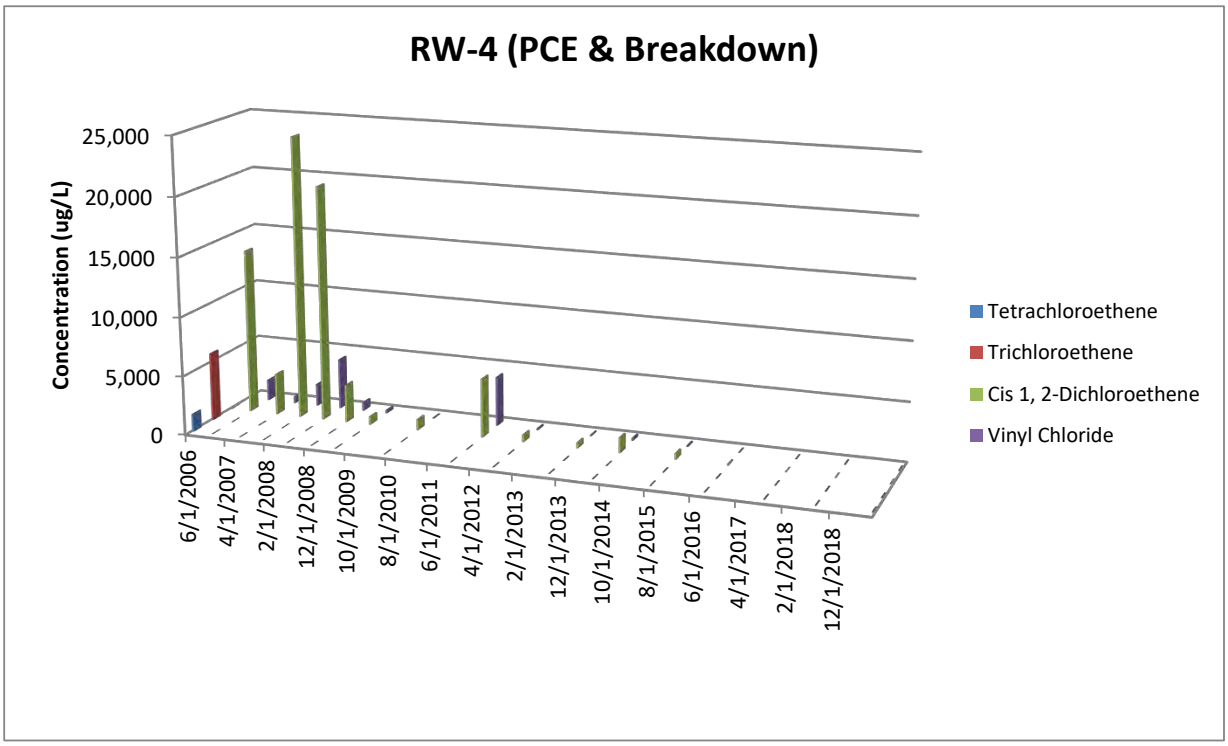

VE-10 (TCA & Breakdown)
Concentration ug/L
5000
4000
3000
2000
1000
0
6/1/2006
3/1/2007
12/1/2007
9/1/2008
6/1/2009
3/1/2010
12/1/2010
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
6/1/2018
3/1/2019
1, 1, 1-Trichloroethane
1, 1-Dichloroethane
Chloroethane

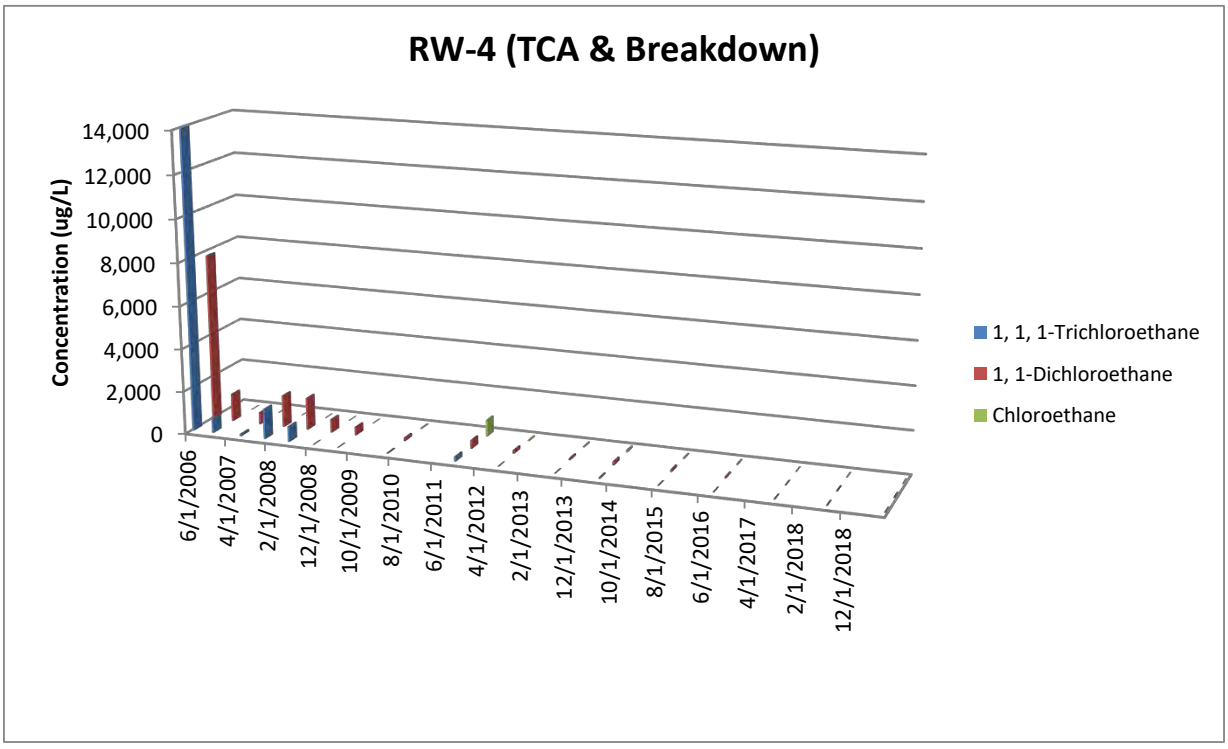

VE-15 (PCE & Breakdown)
Concentration (ug/L)
50000
40000
30000
20000
10000
0
6/1/2006
4/1/2007
2/1/2008
12/1/2008
10/1/2009
8/1/2010
6/1/2011
4/1/2012
2/1/2013
12/1/2013
10/1/2014
8/1/2015
6/1/2016
4/1/2017
2/1/2018
12/1/2018
Tetrachloroethene
Trichloroethene
Cis 1, 2-Dichloroethene
Vinyl Chloride


VE-15 (TCA & Breakdown)
Concentration (ug/L)
8000
7000
6000
5000
4000
3000
2000
1000
0
6/1/2006
3/1/2007
12/1/2007
9/1/2008
6/1/2009
3/1/2010
12/1/2010
9/1/2011
6/1/2012
3/1/2013
12/1/2013
9/1/2014
6/1/2015
3/1/2016
12/1/2016
9/1/2017
6/1/2018
3/1/2019
1, 1, 1-Trichloroethane
1, 1-Dichloroethane
Chloroethane


VE-6 (PCE & Breakdown)
Concentration (ug/L)
70000
60000
50000
40000
30000
20000
10000
0
6/1/2006
4/1/2007
2/1/2008
12/1/2008
10/1/2009
8/1/2010
6/1/2011
4/1/2012
2/1/2013
12/1/2013
10/1/2014
8/1/2015
6/1/2016
4/1/2017
2/1/2018
12/1/2018
Tetrachloroethene
Trichloroethene
Cis 1, 2-Dichloroethene
Vinyl Chloride


VE-6 (TCA & Breakdown)
Concentration (ug/L)
10000
8000
6000
4000
2000
0
6/1/2006
4/1/2007
2/1/2008
12/1/2008
10/1/2009
8/1/2010
6/1/2011
4/1/2012
2/1/2013
12/1/2013
10/1/2014
8/1/2015
6/1/2016
4/1/2017
2/1/2018
12/1/2018
1, 1, 1-Trichloroethane
1, 1-Dichloroethane
Chloroethane


RW-4 (PCE & Breakdown)
Concentration (ug/L)
25,000
20,000
15,000
10,000
5,000
0
6/1/2006
4/1/2007
2/1/2008
12/1/2008
10/1/2009
8/1/2010
6/1/2011
4/1/2012
2/1/2013
12/1/2013
10/1/2014
8/1/2015
6/1/2016
4/1/2017
2/1/2018
12/1/2018
Tetrachloroethene
Trichloroethene
Cis 1, 2-Dichloroethene
Vinyl Chloride


RW-4 (TCA & Breakdown)
Concentration (ug/L)
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
6/1/2006
4/1/2007
2/1/2008
12/1/2008
10/1/2009
8/1/2010
6/1/2011
4/1/2012
2/1/2013
12/1/2013
10/1/2014
8/1/2015
6/1/2016
4/1/2017
2/1/2018
12/1/2018
1, 1, 1-Trichloroethane
1, 1-Dichloroethane
Chloroethane