TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-105999-1

Job Description: FAY-2018 Residential Sampling

For:
Chemours Company FC, LLC The
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, DE 19713

Attention: Michael Aucoin

Approved for release.
Michelle A Johnston
Project Manager II
2/13/2018 12:22 PM

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02/13/2018

cc: Barbara McGraw
Kelly Rinehimer

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE
Client: The Chemours Company FC, LLC
Project: FAY-2018 Residential Sampling
Report Number: 280-105999-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet project requirements at the request of the client and to report the lowest possible RL for each analyte.

Receipt
The samples were received on 2/1/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.3º C, 0.9º C, 1.0º C, 1.4º C, 2.4º C and 4.9º C.

Receipt Exceptions
The sample ID and collection time listed on the container labels of three out of four containers received for FAY-D-5226MATTH-W1-1-013018 (280-105999-3) did not match the chain of custody. The discrepant container labels list a sample ID of FAY-D-5226MATTH-W1-1-013018 and a collection time of 0950 while the chain of custody lists a sample ID of FAY-D-6226MATTH-W1-1-013018 and a collection time of 0956. It can be noted that the discrepant container were received in a plastic zip log bag with the fourth container that had information on the label that matched the chain of custody. As such the laboratory logged the discrepant container per the information on the chain of custody. The client was notified on 2/2/2018. In accordance with the client's instructions received on 2/7/2018, the laboratory revised the sample ID to FAY-D-5226MATTH-W1-1-013018 and the collection time to 0950.

The sample collection date listed on the container labels of sample volume received for FAY-D-4850OLDSV-W1-1-013118 (280-105999-6) did not match the chain of custody. The container labels list a collection date of 1/30/2018 while the chain of custody lists a collection date of 1/31/2018. The laboratory logged the sample collection date per the chain of custody. The client was notified on 2/2/2018.

The container labels of sample volume received for FAY-D-4781OLDSV-W1-1-013118 (280-105999-7) were illegible due to water from melted ice in the cooler. The laboratory logged the containers by process of elimination after all other containers had been matched the chain of custody. The client was notified on 2/2/2018.

The sample collection time on the container labels of sample volume received for FAY-D-6900TABOR-W1-1-013018 (280-105999-20) did not match the chain of custody. The container labels list a collection time of 1247 while the chain of custody lists a collection time of 1245. The laboratory logged the sample collection time per the chain of custody. The client was notified on 2/2/2018. In accordance with the client's instructions received on 2/7/2018, the sample collection time was revised to 1247.

The container label of one of twelve containers received for FAY-D-5515MATTH-W1-1-013018 (280-105999-21) (+MS/REP) was barely legible due to water from melted ice in the cooler. The container was logged under this sample as it was received in a bag with containers for this sample with legible labels. The client was notified on 2/2/2018.

The sample collection time listed on the container labels of sample volume received for FAY-D-3431DANDE-W1-1-013118 (280-105999-33) does not match the chain of custody. The container labels list a collection time of 1434 while the chain of custody lists a collection time of 1427. The laboratory logged the sample collection time per the chain of custody and will proceed unless instructed otherwise. The client was notified on 2/2/2018. In accordance with the client's instructions received on 2/7/2018, the sample collection time was revised to 1434.

A revised chain of custody capturing all revisions to sample IDs and/or collection date/times was submitted to the laboratory by the client via email on 2/9/2018. The revised and original chain of custody are included in the final report.

No other anomalies were observed during sample receipt.

Standards
Analytical standards were prepared using the acid form of the compound Perfluoro(2-propoxypropanoic) acid (HFPO-DA).

The surrogate compound, 13C3 HFPO-DA was introduced at the extraction step and was used as an internal standard for quantitation of HFPO-DA. The concentration of the surrogate spike is 0.2ug/L in water samples or 50ug/kg in soil samples.

Sample Extraction and Analysis

The samples presented in this report were extracted for the target analyte by TestAmerica Denver's SOP DV-OP-0019, Rev. 8 and analyzed for the target analyte by TestAmerica Denver's SOP DV-LC-0012, Rev. 14, with the exceptions of the items indicated in the DuPont QAS. Sample FAY-D-5515MATTH-W1-1-013018 (280-105999-21) was chosen to be analyzed as a duplicate and also to be spiked with the target analyte.

For water samples a 250mL aliquot of each sample is extracted using solid phase extraction technique with methanol conditioned Weak Anion Exchange cartridges. Each sample is spiked with the internal standard/surrogate, prior to extraction. After the sample is passed through the cartridge, the analytes are eluted with 2%Formic Acid, 6mLs of HPLC grade MeOH and then with 4mL of 10% ammonium hydroxide in methanol. The final volume is brought to 5mL using reagent water and the extract is analyzed by LC/MS/MS.

The target analyte is separated from other components on a high-performance liquid chromatography (HPLC) C18 column with a mobile phase mixture of water containing 0.1% ammonium acetate and methanol. The mass spectrometer detector is operated in the electrospray (ESI) negative ion mode. The instrument is calibrated at 7 concentration levels (0.2, 0.5, 1.0, 2.0, 5.0, 10 and 20ug/L). The target analyte is detected as the perfluoro(2-propoxypropanoic) acid with the parent ion of 328.8 amu. The daughter ions used for analysis by LC/MS/MS are at 284.8 amu. The ratio of the peak areas to the two ions must be ±20% of the ion ratios in the mid-point ICAL for qualitative identification. Sample results are quantitated using the internal standard dilution.

Tuning and Calibration

The instrument is tuned with a solution of the target analyte such that mass assignments are within ±0.5 amu of the daughter ions. The instrument is calibrated with seven concentration levels from 0.2ug/L to 20ug/L. Linear regression ($y=ax+b$) or quadratic functions (y=ax+cx2+b) are used with a correlation coefficient or coefficient of determination ≥0.990.
Following initial calibration (ICAL), an initial calibration blank (ICB) is tested, which consists of methanol spiked with the surrogate. The result for the target analyte must be less than one half the reporting limit (RL) to proceed.

Next an initial calibration verification (ICV) standard is tested. This is a mid-level concentration standard from a different vendor from the ICAL standard. If a different vendor is not available then, a different lot number from the same vendor is used. The ICV must be within 80-120% of the true value.

The quantitation limit verification standard is a standard from the same source as the ICAL tested run at the RL level to determine accuracy near the detection limit. This recovery must be within 70-130%.

Continuing calibration verification (CCV) standards are tested every 10 injections and are from the same source as the ICAL and are at mid-level concentration. The recovery of the CCVs must be 70-130% or recalibration is necessary.

Method QC Samples

The Method Blank is processed reagent water spiked with internal standard and prepared with each batch of 20 samples of the same matrix. All samples in the batch are processed at the same time and with the same reagents. The method blank must be less than the LOD or associated batch samples must be re-extracted and reanalyzed.

Each batch is prepared with a low- and a mid-level concentration spike Laboratory Control Samples (LCS). The recoveries of these samples must be within 70-130% or associated batch samples must be re-extracted and reanalyzed. If the recovery is biased high and samples are non-detect, results can be reported without re-extraction.

Calculations

Sample Result Calculation

For internal standard quantitation,
HFPO-DA Response = Area of HFPO-DA * 13C3 HFPO-DA concentration / area of 13C3 HFPO-DA

Concentration in waters, ug/L = (Cex Vt)/(Vo)

Where:
Cex = Concentration measured in sample extract from the target analyte response (ng/mL)
Vt = Volume of total extract (mL)
Vo = Volume of water extracted (mL)

2. Percent Recovery Calculation

Spike Recovery = (SSR-SR)/(SA)x100%

Where:
SSR = Spike sample result
SR = Sample result
SA = Spike added

3. Relative Percent Difference Calculation

RPD = (SR - DR)/(1/2(SR+DR))x100

Where:

SR = Sample result

DR = Duplicate result

HFPO-DA Analysis Anomalies

Samples FAY-D-5140MATTH-W1-1-013018 (280-105999-1), FAY-D-5240MATTH-W1-1-013018 (280-105999-2), FAY-D-5226MATTH-W1-1-013018 (280-105999-3), FAY-D-4992HERSY-W1-1-013018 (280-105999-4), FAY-D-4976HERSY-W1-1-013018 (280-105999-5), FAY-D-4850OLDSV-W1-1-013118 (280-105999-6), FAY-D-4781OLDSV-W1-1-013118 (280-105999-7), FAY-D-7560TABOR-W1-1-013118 (280-105999-8), FAY-D-7560TABOR-W1-2-013118 (280-105999-9), FAY-D-5140SNWBR-W1-1-013118 (280-105999-10), FAY-D-5010SNWBR-W1-1-013118 (280-105999-11), FAY-D-4900SNWBR-W1-1-013118 (280-105999-12), FAY-D-4863SNWBR-W1-1-013118 (280-105999-13), FAY-D-4839SNWBR-W1-1-013118 (280-105999-14), FAY-D-4809SNWBR-W1-1-013118 (280-105999-15), FAY-D-4830SNWBR-W1-1-013118 (280-105999-16), FAY-D-3612PNEBR-W1-1-013118 (280-105999-17), FAY-D-3612PNEBR-W1-2-013118 (280-105999-18), FAY-D-6883BUTLE-W1-1-013118 (280-105999-19), FAY-D-6900TABOR-W1-1-013018 (280-105999-20), FAY-D-5515MATTH-W1-1-013018 (280-105999-21), FAY-D-5455MATTH-W1-1-013018 (280-105999-22), FAY-D-5459MATTH-W1-1-013018 (280-105999-23), FAY-D-5505MATTH-W1-1-013018 (280-105999-24), FAY-D-5515MATTH-W1-1-013018D (280-105999-25), FAY-D-2808CHIMB-W1-1-012918 (280-105999-26), FAY-D-FB-012918 (280-105999-27), FAY-D-3067NC20H-W1-1-013118 (280-105999-28), FAY-D-FB-013118 (280-105999-29), FAY-D-2713NC20H-W1-1-013118 (280-105999-30), FAY-D-3065NC20H-W1-1-013118 (280-105999-31), FAY-D-2713NC20H-W1-2-013118 (280-105999-32), FAY-D-3431DANDE-W1-1-013118 (280-105999-33), FAY-D-3417DANDE-W1-1-013118 (280-105999-34), FAY-D-3203LUGSL-W1-1-013118 (280-105999-35), FAY-D-6859BUTLE-W1-1-013118 (280-105999-36), FAY-D-3834HEART-W1-1-013118 (280-105999-37), FAY-D-3834HEART-W1-2-013118 (280-105999-38), FAY-D-3845HEART-W1-1-013118 (280-105999-39), FAY-D-3845HEART-W1-2-013118 (280-105999-40), FAY-D-3909HEART-W1-1-013118 (280-105999-41), FAY-D-3909HEART-W1-2-013118 (280-105999-42), FAY-D-3911HEART-W1-1-013118 (280-105999-43), FAY-D-3930HEART-W1-1-013118 (280-105999-44), FAY-D-3930HEART-W1-2-013118 (280-105999-45), FAY-D-3933HEART-W1-1-013118 (280-105999-46), FAY-D-3933HEART-W1-2-013118 (280-105999-47), FAY-D-3754HEART-W1-1-013018 (280-105999-48), FAY-D-3808HEART-W1-1-013018 (280-105999-49), FAY-D-3808HEART-W1-2-013018 (280-105999-50), FAY-D-3775HEART-W1-1-013018 (280-105999-51), FAY-D-3825HEART-W1-1-013118 (280-105999-52), FAY-D-3825HEART-W1-2-013018 (280-105999-53), FAY-D-3934HEART-W1-1-013118 (280-105999-54), FAY-D-3926HEART-W1-1-013118 (280-105999-55), FAY-D-3926HEART-W1-2-013118 (280-105999-56), FAY-D-3513TRERG-W1-1-013118 (280-105999-57) and FAY-D-3513TRERG-W1-2-013118 (280-105999-58) were analyzed for Perfluorinated Hydrocarbons in accordance with DV-LC-0012. The samples were prepared on 02/07/2018, 02/08/2018 and 02/09/2018 and analyzed on 02/08/2018, 02/09/2018 and 02/12/2018.

Calibration 9 (STD125) has been included in the raw data, but was not used in the Initial Calibration (ICAL).

Reporting limits have been adjusted accordingly for the initial volumes extracted.

The project required MS and Sample Duplicate could not be performed for prep batches 280-404157, 280-404355, 280-404517 and 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5140MATTH-W1-1-013018	280-105999-1	1/30/2018 8:56	2/1/2018	2/9/2018	0.081

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5240MATTH-W1-1-013018	280-105999-2	1/30/2018 9:46	2/1/2018	2/9/2018	0.031

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5226MATTH-W1-1-013018	280-105999-3	1/30/2018 9:50	2/1/2018	2/9/2018	0.053

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
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Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

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Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4992HERSY-W1-1-013018	280-105999-4	1/30/2018 11:05	2/1/2018	2/9/2018	0.079

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

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Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

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Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4976HERSY-W1-1-013018	280-105999-5	1/30/2018 11:16	2/1/2018	2/9/2018	0.065

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

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If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

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Michelle A. Johnston, Project Manager 2/13/2018 Date

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Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4850OLDSV-W1-1-013118	280-105999-6	1/31/2018 10:07	2/1/2018	2/9/2018	0.026

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

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THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4781OLDSV-W1-1-013118	280-105999-7	1/31/2018 10:14	2/1/2018	2/9/2018	0.026

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
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If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

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Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7560TABOR-W1-1-013118	280-105999-8	1/31/2018 14:28	2/1/2018	2/9/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-7560TABOR-W1-2-013118	280-105999-9	1/31/2018 14:31	2/1/2018	2/9/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404355, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5140SNWBR-W1-1-013118	280-105999-10	1/31/2018 14:59	2/1/2018	2/9/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5010SNWBR-W1-1-013118	280-105999-11	1/31/2018 15:21	2/1/2018	2/9/2018	0.10

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4900SNWBR-W1-1-013118	280-105999-12	1/31/2018 15:50	2/1/2018	2/9/2018	0.14

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4863SNWBR-W1-1-013118	280-105999-13	1/31/2018 16:02	2/1/2018	2/9/2018	0.087

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4839SNWBR-W1-1-013118	280-105999-14	1/31/2018 16:17	2/1/2018	2/9/2018	0.18

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4809SNWBR-W1-1-013118	280-105999-15	1/31/2018 16:19	2/1/2018	2/9/2018	0.17

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4830SNWBR-W1-1-013118	280-105999-16	1/31/2018 16:37	2/1/2018	2/9/2018	0.36

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3612PNEBR-W1-1-013118	280-105999-17	1/31/2018 15:31	2/1/2018	2/9/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3612PNEBR-W1-2-013118	280-105999-18	1/31/2018 15:31	2/1/2018	2/9/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6883BUTLE-W1-1-013118	280-105999-19	1/31/2018 16:32	2/1/2018	2/9/2018	0.014

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6900TABOR-W1-1-013018	280-105999-20	1/30/2018 12:47	2/1/2018	2/9/2018	0.030

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5515MATTH-W1-1-013018	280-105999-21	1/30/2018 15:16	2/1/2018	2/9/2018	0.020

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5455MATTH-W1-1-013018	280-105999-22	1/30/2018 17:03	2/1/2018	2/9/2018	0.14

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5459MATTH-W1-1-013018	280-105999-23	1/30/2018 16:34	2/1/2018	2/9/2018	0.037

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5505MATTH-W1-1-013018	280-105999-24	1/30/2018 16:45	2/1/2018	2/12/2018	0.065

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5515MATTH-W1-1-013018D	280-105999-25	1/30/2018 15:16	2/1/2018	2/12/2018	0.018

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-2808CHIMB-W1-1-012918	280-105999-26	1/29/2018 14:11	2/1/2018	2/8/2018	0.018

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404157, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-FB-012918	280-105999-27	1/29/2018 7:00	2/1/2018	2/8/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404157, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3067NC20H-W1-1-013118	280-105999-28	1/31/2018 15:07	2/1/2018	2/9/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-FB-013118	280-105999-29	1/31/2018 8:30	2/1/2018	2/9/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-2713NC20H-W1-1-013118	280-105999-30	1/31/2018 16:15	2/1/2018	2/9/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3065NC20H-W1-1-013118	280-105999-31	1/31/2018 15:24	2/1/2018	2/9/2018	0.028

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-2713NC20H-W1-2-013118	280-105999-32	1/31/2018 16:15	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3431DANDE-W1-1-013118	280-105999-33	1/31/2018 14:34	2/1/2018	2/12/2018	0.30

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3417DANDE-W1-1-013118	280-105999-34	1/31/2018 14:43	2/1/2018	2/9/2018	0.13

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%

TestAmerica Sample ID	Matrix Spike Recoveries
280-105999-21	124%

SUBMITTED BY:

Michelle A. Johnston

2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3203LUGSL-W1-1-013118	280-105999-35	1/31/2018 15:54	2/1/2018	2/12/2018	0.049

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-6859BUTLE-W1-1-013118	280-105999-36	1/31/2018 16:40	2/1/2018	2/12/2018	0.061

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3834HEART-W1-1-013118	280-105999-37	1/31/2018 9:11	2/1/2018	2/12/2018	0.012

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3834HEART-W1-2-013118	280-105999-38	1/31/2018 8:59	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3845HEART-W1-1-013118	280-105999-39	1/31/2018 9:31	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3845HEART-W1-2-013118	280-105999-40	1/31/2018 9:35	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3909HEART-W1-1-013118	280-105999-41	1/31/2018 9:54	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3909HEART-W1-2-013118	280-105999-42	1/31/2018 9:56	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3911HEART-W1-1-013118	280-105999-43	1/31/2018 10:12	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3930HEART-W1-1-013118	280-105999-44	1/31/2018 10:32	2/1/2018	2/12/2018	0.19

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3930HEART-W1-2-013118	280-105999-45	1/31/2018 10:37	2/1/2018	2/12/2018	0.19

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3933HEART-W1-1-013118	280-105999-46	1/31/2018 10:59	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3933HEART-W1-2-013118	280-105999-47	1/31/2018 11:02	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3754HEART-W1-1-013018	280-105999-48	1/30/2018 14:56	2/1/2018	2/12/2018	0.015

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3808HEART-W1-1-013018	280-105999-49	1/30/2018 15:59	2/1/2018	2/12/2018	0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3808HEART-W1-2-013018	280-105999-50	1/30/2018 16:01	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404517, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3775HEART-W1-1-013018	280-105999-51	1/30/2018 16:16	2/1/2018	2/12/2018	0.080

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3825HEART-W1-1-013118	280-105999-52	1/31/2018 8:45	2/1/2018	2/12/2018	0.13

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3825HEART-W1-2-013018	280-105999-53	1/30/2018 16:29	2/1/2018	2/12/2018	0.13

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3934HEART-W1-1-013118	280-105999-54	1/31/2018 10:49	2/1/2018	2/12/2018	0.012

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3926HEART-W1-1-013118	280-105999-55	1/31/2018 11:28	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager — Date 2/13/2018

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3926HEART-W1-2-013118	280-105999-56	1/31/2018 11:25	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston 2/13/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3513TRERG-W1-1-013118	280-105999-57	1/31/2018 14:45	2/1/2018	2/12/2018	0.021

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluorochemical Characterization of Water Samples
Analytical Results

Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3513TRERG-W1-2-013118	280-105999-58	1/31/2018 14:42	2/1/2018	2/12/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
< = less than the stated value
** ug/L – micrograms/liter (parts per billion)

DEFINITIONS:
Reporting Limit (RL) for the procedure is approximately 0.010ug/L.

RESULTS ARE CALCULATED ACCORDING TO THE FOLLOWING CRITERIA:
For samples analyzed in duplicate:
If the sample and laboratory duplicate are greater than 5X RL, the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher value is reported.

If the sample or laboratory duplicate are less than 5X RL, and the absolute difference is less than RL, the average value is reported. If the absolute difference is greater than the RL, the higher value is reported.

Matrix Spike Recoveries: Acceptable Range: 70%-130%
The project required MS and Sample Duplicate could not be performed for prep batch 280-404518, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

SUBMITTED BY:

Michelle A. Johnston, Project Manager 2/13/2018 Date

8321A : HFPO-DA

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
280-105999-1	FAY-D-5140MATTH-W1-1-013018	HFPO-DA	0.081	0.081	0.010
280-105999-2	FAY-D-5240MATTH-W1-1-013018	HFPO-DA	0.031	0.031	0.010
280-105999-3	FAY-D-5226MATTH-W1-1-013018	HFPO-DA	0.053	0.053	0.010
280-105999-4	FAY-D-4992HERSY-W1-1-013018	HFPO-DA	0.079	0.079	0.010
280-105999-5	FAY-D-4976HERSY-W1-1-013018	HFPO-DA	0.065	0.065	0.010
280-105999-6	FAY-D-4850OLDSV-W1-1-013118	HFPO-DA	0.026	0.026	0.010
280-105999-7	FAY-D-4781OLDSV-W1-1-013118	HFPO-DA	0.026	0.026	0.010
280-105999-8	FAY-D-7560TABOR-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-9	FAY-D-7560TABOR-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-10	FAY-D-5140SNWBR-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-11	FAY-D-5010SNWBR-W1-1-013118	HFPO-DA	0.10	0.10	0.010
280-105999-12	FAY-D-4900SNWBR-W1-1-013118	HFPO-DA	0.14	0.14	0.010
280-105999-13	FAY-D-4863SNWBR-W1-1-013118	HFPO-DA	0.087	0.087	0.010
280-105999-14	FAY-D-4839SNWBR-W1-1-013118	HFPO-DA	0.18	0.18	0.010
280-105999-15	FAY-D-4809SNWBR-W1-1-013118	HFPO-DA	0.17	0.17	0.010
280-105999-16	FAY-D-4830SNWBR-W1-1-013118	HFPO-DA	0.36	0.36	0.010
280-105999-17	FAY-D-3612PNEBR-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-18	FAY-D-3612PNEBR-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-19	FAY-D-6883BUTLE-W1-1-013118	HFPO-DA	0.014	0.014	0.010
280-105999-20	FAY-D-6900TABOR-W1-1-013018	HFPO-DA	0.030	0.030	0.010
280-105999-21	FAY-D-5515MATTH-W1-1-013018	HFPO-DA	0.018	0.020	0.010
280-105999-21 DU	FAY-D-5515MATTH-W1-1-013018	HFPO-DA	0.022		0.010
280-105999-22	FAY-D-5455MATTH-W1-1-013018	HFPO-DA	0.14	0.14	0.010
280-105999-23	FAY-D-5459MATTH-W1-1-013018	HFPO-DA	0.037	0.037	0.010
280-105999-24	FAY-D-5505MATTH-W1-1-013018	HFPO-DA	0.065	0.065	0.010
280-105999-25	FAY-D-5515MATTH-W1-1-013018D	HFPO-DA	0.018	0.018	0.010
280-105999-26	FAY-D-2808CHIMB-W1-1-012918	HFPO-DA	0.018	0.018	0.010
280-105999-27	FAY-D-FB-012918	HFPO-DA	<0.010	<0.010	0.010
280-105999-28	FAY-D-3067NC20H-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-29	FAY-D-FB-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-30	FAY-D-2713NC20H-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-31	FAY-D-3065NC20H-W1-1-013118	HFPO-DA	0.028	0.028	0.010
280-105999-32	FAY-D-2713NC20H-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-33	FAY-D-3431DANDE-W1-1-013118	HFPO-DA	0.30	0.30	0.010
280-105999-34	FAY-D-3417DANDE-W1-1-013118	HFPO-DA	0.13	0.13	0.010
280-105999-35	FAY-D-3203LUGSL-W1-1-013118	HFPO-DA	0.049	0.049	0.010
280-105999-36	FAY-D-6859BUTLE-W1-1-013118	HFPO-DA	0.061	0.061	0.010
280-105999-37	FAY-D-3834HEART-W1-1-013118	HFPO-DA	0.012	0.012	0.010
280-105999-38	FAY-D-3834HEART-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-39	FAY-D-3845HEART-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-40	FAY-D-3845HEART-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010

(a) Method 8321A

(b) DUP or REP indicates a laboratory duplicate.

(c) If the sample and laboratory duplicate are both greater than 5X the RL and the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher of the sample and laboratory duplicate value is reported. If the sample and/or laboratory duplicate are less than 5X the RL, and the absolute difference between the sample and laboratory duplicate is less than the RL, the average value is reported. If the absolute difference is greater than the RL, the higher of the sample and laboratory duplicate value is reported. If either the sample or the duplicate result is greater than or equal to the RL and the other is less than the RL, then the higher of the two is reported.

(d) Moisture Determined by ASTM D2216.

(e) Reporting Limit (RL) = The concentration equivalent to the low calibration standard.

8321A : HFPO-DA

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
280-105999-41	FAY-D-3909HEART-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-42	FAY-D-3909HEART-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-43	FAY-D-3911HEART-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-44	FAY-D-3930HEART-W1-1-013118	HFPO-DA	0.19	0.19	0.010
280-105999-45	FAY-D-3930HEART-W1-2-013118	HFPO-DA	0.19	0.19	0.010
280-105999-46	FAY-D-3933HEART-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-47	FAY-D-3933HEART-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-48	FAY-D-3754HEART-W1-1-013018	HFPO-DA	0.015	0.015	0.010
280-105999-49	FAY-D-3808HEART-W1-1-013018	HFPO-DA	0.010	0.010	0.010
280-105999-50	FAY-D-3808HEART-W1-2-013018	HFPO-DA	<0.010	<0.010	0.010
280-105999-51	FAY-D-3775HEART-W1-1-013018	HFPO-DA	0.080	0.080	0.010
280-105999-52	FAY-D-3825HEART-W1-1-013118	HFPO-DA	0.13	0.13	0.010
280-105999-53	FAY-D-3825HEART-W1-2-013018	HFPO-DA	0.13	0.13	0.010
280-105999-54	FAY-D-3934HEART-W1-1-013118	HFPO-DA	0.012	0.012	0.010
280-105999-55	FAY-D-3926HEART-W1-1-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-56	FAY-D-3926HEART-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010
280-105999-57	FAY-D-3513TRERG-W1-1-013118	HFPO-DA	0.021	0.021	0.010
280-105999-58	FAY-D-3513TRERG-W1-2-013118	HFPO-DA	<0.010	<0.010	0.010

(a) Method 8321A

(b) DUP or REP indicates a laboratory duplicate.

(c) If the sample and laboratory duplicate are both greater than 5X the RL and the relative percent difference (RPD) is less than 20, the average value is reported. If the RPD is greater than 20, the higher of the sample and laboratory duplicate value is reported. If the sample and/or laboratory duplicate are less than 5X the RL, and the absolute difference between the sample and laboratory duplicate is less than the RL, the average value is reported. If the absolute difference is greater than the RL, the higher of the sample and laboratory duplicate value is reported. If either the sample or the duplicate result is greater than or equal to the RL and the other is less than the RL, then the higher of the two is reported.

(d) Moisture Determined by ASTM D2216.

(e) Reporting Limit (RL) = The concentration equivalent to the low calibration standard.

Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5140MATTH-W1-1-013018 — Lab Sample ID: 280-105999-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.081		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5240MATTH-W1-1-013018 — Lab Sample ID: 280-105999-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.031		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5226MATTH-W1-1-013018 — Lab Sample ID: 280-105999-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.053		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4992HERSY-W1-1-013018 — Lab Sample ID: 280-105999-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.079		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4976HERSY-W1-1-013018 — Lab Sample ID: 280-105999-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.065		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4850OLDSV-W1-1-013118 — Lab Sample ID: 280-105999-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.026		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4781OLDSV-W1-1-013118 — Lab Sample ID: 280-105999-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.026		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7560TABOR-W1-1-013118 — Lab Sample ID: 280-105999-8

No Detections.

Client Sample ID: FAY-D-7560TABOR-W1-2-013118 — Lab Sample ID: 280-105999-9

No Detections.

Client Sample ID: FAY-D-5140SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-10

No Detections.

Client Sample ID: FAY-D-5010SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.10		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4900SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-12

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4900SNWBR-W1-1-013118 (Continued) — Lab Sample ID: 280-105999-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.14		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4863SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.087		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4839SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.18		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4809SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.17		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-4830SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.36		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3612PNEBR-W1-1-013118 — Lab Sample ID: 280-105999-17

No Detections.

Client Sample ID: FAY-D-3612PNEBR-W1-2-013118 — Lab Sample ID: 280-105999-18

No Detections.

Client Sample ID: FAY-D-6883BUTLE-W1-1-013118 — Lab Sample ID: 280-105999-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.014		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6900TABOR-W1-1-013018 — Lab Sample ID: 280-105999-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.030		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5515MATTH-W1-1-013018 — Lab Sample ID: 280-105999-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.018		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5455MATTH-W1-1-013018 — Lab Sample ID: 280-105999-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.14		0.010		ug/L	1		8321A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5459MATTH-W1-1-013018 — Lab Sample ID: 280-105999-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.037		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5505MATTH-W1-1-013018 — Lab Sample ID: 280-105999-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.065		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5515MATTH-W1-1-013018D — Lab Sample ID: 280-105999-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.018		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-2808CHIMB-W1-1-012918 — Lab Sample ID: 280-105999-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.018		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-FB-012918 — Lab Sample ID: 280-105999-27

No Detections.

Client Sample ID: FAY-D-3067NC20H-W1-1-013118 — Lab Sample ID: 280-105999-28

No Detections.

Client Sample ID: FAY-D-FB-013118 — Lab Sample ID: 280-105999-29

No Detections.

Client Sample ID: FAY-D-2713NC20H-W1-1-013118 — Lab Sample ID: 280-105999-30

No Detections.

Client Sample ID: FAY-D-3065NC20H-W1-1-013118 — Lab Sample ID: 280-105999-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.028		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-2713NC20H-W1-2-013118 — Lab Sample ID: 280-105999-32

No Detections.

Client Sample ID: FAY-D-3431DANDE-W1-1-013118 — Lab Sample ID: 280-105999-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.30		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3417DANDE-W1-1-013118 — Lab Sample ID: 280-105999-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.13		0.010		ug/L	1		8321A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3203LUGSL-W1-1-013118 — Lab Sample ID: 280-105999-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.049		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6859BUTLE-W1-1-013118 — Lab Sample ID: 280-105999-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.061		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3834HEART-W1-1-013118 — Lab Sample ID: 280-105999-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.012		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3834HEART-W1-2-013118 — Lab Sample ID: 280-105999-38

No Detections.

Client Sample ID: FAY-D-3845HEART-W1-1-013118 — Lab Sample ID: 280-105999-39

No Detections.

Client Sample ID: FAY-D-3845HEART-W1-2-013118 — Lab Sample ID: 280-105999-40

No Detections.

Client Sample ID: FAY-D-3909HEART-W1-1-013118 — Lab Sample ID: 280-105999-41

No Detections.

Client Sample ID: FAY-D-3909HEART-W1-2-013118 — Lab Sample ID: 280-105999-42

No Detections.

Client Sample ID: FAY-D-3911HEART-W1-1-013118 — Lab Sample ID: 280-105999-43

No Detections.

Client Sample ID: FAY-D-3930HEART-W1-1-013118 — Lab Sample ID: 280-105999-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.19		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3930HEART-W1-2-013118 — Lab Sample ID: 280-105999-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.19		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3933HEART-W1-1-013118 — Lab Sample ID: 280-105999-46

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3933HEART-W1-2-013118 — Lab Sample ID: 280-105999-47

No Detections.

Client Sample ID: FAY-D-3754HEART-W1-1-013018 — Lab Sample ID: 280-105999-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.015		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3808HEART-W1-1-013018 — Lab Sample ID: 280-105999-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.010		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3808HEART-W1-2-013018 — Lab Sample ID: 280-105999-50

No Detections.

Client Sample ID: FAY-D-3775HEART-W1-1-013018 — Lab Sample ID: 280-105999-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.080		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3825HEART-W1-1-013118 — Lab Sample ID: 280-105999-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.13		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3825HEART-W1-2-013018 — Lab Sample ID: 280-105999-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.13		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3934HEART-W1-1-013118 — Lab Sample ID: 280-105999-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.012		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3926HEART-W1-1-013118 — Lab Sample ID: 280-105999-55

No Detections.

Client Sample ID: FAY-D-3926HEART-W1-2-013118 — Lab Sample ID: 280-105999-56

No Detections.

Client Sample ID: FAY-D-3513TRERG-W1-1-013118 — Lab Sample ID: 280-105999-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.021		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3513TRERG-W1-2-013118 — Lab Sample ID: 280-105999-58

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5140MATTH-W1-1-013018

Lab Sample ID: 280-105999-1

Date Collected: 01/30/18 08:56
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.081**		0.010		ug/L		02/08/18 17:57	02/09/18 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*87*		*50 - 200*	*02/08/18 17:57*	*02/09/18 09:37*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5240MATTH-W1-1-013018

Lab Sample ID: 280-105999-2

Date Collected: 01/30/18 09:46
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.031**		0.010		ug/L		02/08/18 17:57	02/09/18 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*87*		*50 - 200*	*02/08/18 17:57*	*02/09/18 09:41*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5226MATTH-W1-1-013018

Lab Sample ID: 280-105999-3

Date Collected: 01/30/18 09:50
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.053**		0.010		ug/L		02/08/18 17:57	02/09/18 09:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*85*		*50 - 200*	*02/08/18 17:57*	*02/09/18 09:44*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4992HERSY-W1-1-013018

Lab Sample ID: 280-105999-4

Date Collected: 01/30/18 11:05
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.079**		0.010		ug/L		02/08/18 17:57	02/09/18 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*83*		*50 - 200*	*02/08/18 17:57*	*02/09/18 09:47*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4976HERSY-W1-1-013018

Lab Sample ID: 280-105999-5

Date Collected: 01/30/18 11:16
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.065**		0.010		ug/L		02/08/18 17:57	02/09/18 09:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*101*		*50 - 200*	*02/08/18 17:57*	*02/09/18 09:50*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4850OLDSV-W1-1-013118

Lab Sample ID: 280-105999-6

Date Collected: 01/31/18 10:07
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.026**		0.010		ug/L		02/08/18 17:57	02/09/18 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/08/18 17:57*	*02/09/18 09:57*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4781OLDSV-W1-1-013118

Lab Sample ID: 280-105999-7

Date Collected: 01/31/18 10:14
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.026**		0.010		ug/L		02/08/18 17:57	02/09/18 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*86*		*50 - 200*	*02/08/18 17:57*	*02/09/18 10:00*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-7560TABOR-W1-1-013118

Lab Sample ID: 280-105999-8

Date Collected: 01/31/18 14:28
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 17:57	02/09/18 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*92*		*50 - 200*	*02/08/18 17:57*	*02/09/18 10:03*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-7560TABOR-W1-2-013118

Lab Sample ID: 280-105999-9

Date Collected: 01/31/18 14:31
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 17:57	02/09/18 10:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*100*		*50 - 200*	*02/08/18 17:57*	*02/09/18 10:07*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5140SNWBR-W1-1-013118

Lab Sample ID: 280-105999-10

Date Collected: 01/31/18 14:59
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 18:22	02/09/18 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*98*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:09*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5010SNWBR-W1-1-013118

Lab Sample ID: 280-105999-11

Date Collected: 01/31/18 15:21
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.10**		0.010		ug/L		02/08/18 18:22	02/09/18 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*86*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:12*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4900SNWBR-W1-1-013118

Lab Sample ID: 280-105999-12

Date Collected: 01/31/18 15:50
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.14**		0.010		ug/L		02/08/18 18:22	02/09/18 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*87*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:15*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4863SNWBR-W1-1-013118

Lab Sample ID: 280-105999-13

Date Collected: 01/31/18 16:02
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.087**		0.010		ug/L		02/08/18 18:22	02/09/18 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*85*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:18*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4839SNWBR-W1-1-013118

Lab Sample ID: 280-105999-14

Date Collected: 01/31/18 16:17

Matrix: Water

Date Received: 02/01/18 09:00

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.18**		0.010		ug/L		02/08/18 18:22	02/09/18 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*86*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:22*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4809SNWBR-W1-1-013118

Lab Sample ID: 280-105999-15

Date Collected: 01/31/18 16:19
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.17**		0.010		ug/L		02/08/18 18:22	02/09/18 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*77*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:25*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-4830SNWBR-W1-1-013118

Lab Sample ID: 280-105999-16

Date Collected: 01/31/18 16:37
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.36**		0.010		ug/L		02/08/18 18:22	02/09/18 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*76*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:31*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3612PNEBR-W1-1-013118

Lab Sample ID: 280-105999-17

Date Collected: 01/31/18 15:31
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 18:22	02/09/18 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*101*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:35*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3612PNEBR-W1-2-013118

Lab Sample ID: 280-105999-18

Date Collected: 01/31/18 15:31
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 18:22	02/09/18 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*101*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:38*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-6883BUTLE-W1-1-013118

Lab Sample ID: 280-105999-19

Date Collected: 01/31/18 16:32
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.014**		0.010		ug/L		02/08/18 18:22	02/09/18 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*103*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:41*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-6900TABOR-W1-1-013018

Lab Sample ID: 280-105999-20

Date Collected: 01/30/18 12:47
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.030**		0.010		ug/L		02/08/18 18:22	02/09/18 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*99*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:44*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5515MATTH-W1-1-013018

Lab Sample ID: 280-105999-21

Date Collected: 01/30/18 15:16
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.018**		0.010		ug/L		02/08/18 18:22	02/09/18 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*109*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:48*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5455MATTH-W1-1-013018

Lab Sample ID: 280-105999-22

Date Collected: 01/30/18 17:03
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.14**		0.010		ug/L		02/08/18 18:22	02/09/18 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*86*		*50 - 200*	*02/08/18 18:22*	*02/09/18 11:57*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5459MATTH-W1-1-013018

Lab Sample ID: 280-105999-23

Date Collected: 01/30/18 16:34
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.037**		0.010		ug/L		02/08/18 18:22	02/09/18 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*107*		*50 - 200*	*02/08/18 18:22*	*02/09/18 12:01*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5505MATTH-W1-1-013018

Lab Sample ID: 280-105999-24

Date Collected: 01/30/18 16:45
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.065**		0.010		ug/L		02/09/18 20:33	02/12/18 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*58*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:27*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-5515MATTH-W1-1-013018D

Lab Sample ID: 280-105999-25

Date Collected: 01/30/18 15:16
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.018**		0.010		ug/L		02/09/18 20:33	02/12/18 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*61*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:30*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-2808CHIMB-W1-1-012918

Lab Sample ID: 280-105999-26

Date Collected: 01/29/18 14:11
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.018**		0.010		ug/L		02/07/18 10:33	02/08/18 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*114*		*50 - 200*	*02/07/18 10:33*	*02/08/18 13:57*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-FB-012918

Lab Sample ID: 280-105999-27

Date Collected: 01/29/18 07:00
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/07/18 10:33	02/08/18 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*125*		*50 - 200*	*02/07/18 10:33*	*02/08/18 14:00*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3067NC20H-W1-1-013118

Lab Sample ID: 280-105999-28

Date Collected: 01/31/18 15:07
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 18:22	02/09/18 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*95*		*50 - 200*	*02/08/18 18:22*	*02/09/18 12:10*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-FB-013118

Lab Sample ID: 280-105999-29

Date Collected: 01/31/18 08:30
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 18:22	02/09/18 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*108*		*50 - 200*	*02/08/18 18:22*	*02/09/18 12:14*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-2713NC20H-W1-1-013118

Lab Sample ID: 280-105999-30

Date Collected: 01/31/18 16:15
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 18:22	02/09/18 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*108*		*50 - 200*	*02/08/18 18:22*	*02/09/18 12:17*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3065NC20H-W1-1-013118

Lab Sample ID: 280-105999-31

Date Collected: 01/31/18 15:24
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.028**		0.010		ug/L		02/08/18 18:22	02/09/18 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*101*		*50 - 200*	*02/08/18 18:22*	*02/09/18 12:20*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-2713NC20H-W1-2-013118

Lab Sample ID: 280-105999-32

Date Collected: 01/31/18 16:15
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*59*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:33*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3431DANDE-W1-1-013118

Lab Sample ID: 280-105999-33

Date Collected: 01/31/18 14:34
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.30**		0.010		ug/L		02/09/18 20:33	02/12/18 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*60*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:37*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3417DANDE-W1-1-013118

Lab Sample ID: 280-105999-34

Date Collected: 01/31/18 14:43
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.13**		0.010		ug/L		02/08/18 18:22	02/09/18 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/08/18 18:22*	*02/09/18 12:23*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3203LUGSL-W1-1-013118

Lab Sample ID: 280-105999-35

Date Collected: 01/31/18 15:54
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.049**		0.010		ug/L		02/09/18 20:33	02/12/18 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*59*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:40*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-6859BUTLE-W1-1-013118

Lab Sample ID: 280-105999-36

Date Collected: 01/31/18 16:40
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.061**		0.010		ug/L		02/09/18 20:33	02/12/18 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*73*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:43*	*1*

Client Sample ID: FAY-D-3834HEART-W1-1-013118

Lab Sample ID: 280-105999-37

Date Collected: 01/31/18 09:11

Matrix: Water

Date Received: 02/01/18 09:00

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.012**		0.010		ug/L		02/09/18 20:33	02/12/18 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*63*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:50*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3834HEART-W1-2-013118

Lab Sample ID: 280-105999-38

Date Collected: 01/31/18 08:59
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*65*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:53*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3845HEART-W1-1-013118

Lab Sample ID: 280-105999-39

Date Collected: 01/31/18 09:31
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*65*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:56*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3845HEART-W1-2-013118

Lab Sample ID: 280-105999-40

Date Collected: 01/31/18 09:35
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*67*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:59*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3909HEART-W1-1-013118

Lab Sample ID: 280-105999-41

Date Collected: 01/31/18 09:54
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*65*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:03*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3909HEART-W1-2-013118

Lab Sample ID: 280-105999-42

Date Collected: 01/31/18 09:56
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*68*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:06*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3911HEART-W1-1-013118

Lab Sample ID: 280-105999-43

Date Collected: 01/31/18 10:12
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*67*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:09*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3930HEART-W1-1-013118

Lab Sample ID: 280-105999-44

Date Collected: 01/31/18 10:32
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.19**		0.010		ug/L		02/09/18 20:33	02/12/18 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*67*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:12*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3930HEART-W1-2-013118

Lab Sample ID: 280-105999-45

Date Collected: 01/31/18 10:37
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.19**		0.010		ug/L		02/09/18 20:33	02/12/18 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*69*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:16*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3933HEART-W1-1-013118

Lab Sample ID: 280-105999-46

Date Collected: 01/31/18 10:59
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*66*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:19*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3933HEART-W1-2-013118

Lab Sample ID: 280-105999-47

Date Collected: 01/31/18 11:02
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*68*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:25*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3754HEART-W1-1-013018

Lab Sample ID: 280-105999-48

Date Collected: 01/30/18 14:56
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.015**		0.010		ug/L		02/09/18 20:33	02/12/18 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*64*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:29*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3808HEART-W1-1-013018

Lab Sample ID: 280-105999-49

Date Collected: 01/30/18 15:59
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.010**		0.010		ug/L		02/09/18 20:33	02/12/18 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*67*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:32*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3808HEART-W1-2-013018

Lab Sample ID: 280-105999-50

Date Collected: 01/30/18 16:01
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*72*		*50 - 200*	*02/09/18 20:33*	*02/12/18 13:35*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3775HEART-W1-1-013018

Lab Sample ID: 280-105999-51

Date Collected: 01/30/18 16:16
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.080**		0.010		ug/L		02/09/18 20:54	02/12/18 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*69*		*50 - 200*	*02/09/18 20:54*	*02/12/18 14:08*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3825HEART-W1-1-013118

Lab Sample ID: 280-105999-52

Date Collected: 01/31/18 08:45
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.13**		0.010		ug/L		02/09/18 20:54	02/12/18 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*69*		*50 - 200*	*02/09/18 20:54*	*02/12/18 14:11*	*1*

Client Sample ID: FAY-D-3825HEART-W1-2-013018

Lab Sample ID: 280-105999-53

Date Collected: 01/30/18 16:29

Matrix: Water

Date Received: 02/01/18 09:00

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.13**		0.010		ug/L		02/09/18 20:54	02/12/18 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*71*		*50 - 200*	*02/09/18 20:54*	*02/12/18 14:18*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3934HEART-W1-1-013118

Lab Sample ID: 280-105999-54

Date Collected: 01/31/18 10:49
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.012**		0.010		ug/L		02/09/18 20:54	02/12/18 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*72*		*50 - 200*	*02/09/18 20:54*	*02/12/18 14:21*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3926HEART-W1-1-013118

Lab Sample ID: 280-105999-55

Date Collected: 01/31/18 11:28
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:54	02/12/18 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*71*		*50 - 200*	*02/09/18 20:54*	*02/12/18 14:24*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3926HEART-W1-2-013118

Lab Sample ID: 280-105999-56

Date Collected: 01/31/18 11:25
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:54	02/12/18 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*73*		*50 - 200*	*02/09/18 20:54*	*02/12/18 14:28*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3513TRERG-W1-1-013118

Lab Sample ID: 280-105999-57

Date Collected: 01/31/18 14:45
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.021**		0.010		ug/L		02/09/18 20:54	02/12/18 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*67*		*50 - 200*	*02/09/18 20:54*	*02/12/18 14:31*	*1*

Client Sample Results

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Client Sample ID: FAY-D-3513TRERG-W1-2-013118

Lab Sample ID: 280-105999-58

Date Collected: 01/31/18 14:42
Date Received: 02/01/18 09:00

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:54	02/12/18 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/09/18 20:54*	*02/12/18 14:34*	*1*

Default Detection Limits

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Method: 8321A - HFPO-DA

Prep: 3535

Analyte	RL	MDL	Units	Method
HFPO-DA	0.010	0.0051	ug/L	8321A

Surrogate Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Method: 8321A - HFPO-DA

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	HFPODA (50-200)	Percent Surrogate Recovery (Acceptance Limits)						
280-105999-1	FAY-D-5140MATTH-W1-1-0130	87							
280-105999-2	FAY-D-5240MATTH-W1-1-0130	87							
280-105999-3	FAY-D-5226MATTH-W1-1-0130	85							
280-105999-4	FAY-D-4992HERSY-W1-1-0130	83							
280-105999-5	FAY-D-4976HERSY-W1-1-0130	101							
280-105999-6	FAY-D-4850OLDSV-W1-1-0131	82							
280-105999-7	FAY-D-4781OLDSV-W1-1-0131	86							
280-105999-8	FAY-D-7560TABOR-W1-1-0131	92							
280-105999-9	FAY-D-7560TABOR-W1-2-0131	100							
280-105999-10	FAY-D-5140SNWBR-W1-1-0131	98							
280-105999-11	FAY-D-5010SNWBR-W1-1-0131	86							
280-105999-12	FAY-D-4900SNWBR-W1-1-0131	87							
280-105999-13	FAY-D-4863SNWBR-W1-1-0131	85							
280-105999-14	FAY-D-4839SNWBR-W1-1-0131	86							
280-105999-15	FAY-D-4809SNWBR-W1-1-0131	77							
280-105999-16	FAY-D-4830SNWBR-W1-1-0131	76							
280-105999-17	FAY-D-3612PNEBR-W1-1-0131	101							
280-105999-18	FAY-D-3612PNEBR-W1-2-0131	101							
280-105999-19	FAY-D-6883BUTLE-W1-1-0131	103							
280-105999-20	FAY-D-6900TABOR-W1-1-0130	99							
280-105999-21	FAY-D-5515MATTH-W1-1-0130	109							
280-105999-21 DU	FAY-D-5515MATTH-W1-1-0130	94							
280-105999-21 MS	FAY-D-5515MATTH-W1-1-0130	93							
280-105999-22	FAY-D-5455MATTH-W1-1-0130	86							
280-105999-23	FAY-D-5459MATTH-W1-1-0130	107							
280-105999-24	FAY-D-5505MATTH-W1-1-0130	58							
280-105999-25	FAY-D-5515MATTH-W1-1-0130	61							
280-105999-26	FAY-D-2808CHIMB-W1-1-0129	114							
280-105999-27	FAY-D-FB-012918	125							
280-105999-28	FAY-D-3067NC20H-W1-1-0131	95							
280-105999-29	FAY-D-FB-013118	108							
280-105999-30	FAY-D-2713NC20H-W1-1-0131	108							
280-105999-31	FAY-D-3065NC20H-W1-1-0131	101							
280-105999-32	FAY-D-2713NC20H-W1-2-0131	59							
280-105999-33	FAY-D-3431DANDE-W1-1-0131	60							
280-105999-34	FAY-D-3417DANDE-W1-1-0131	82							
280-105999-35	FAY-D-3203LUGSL-W1-1-0131	59							
280-105999-36	FAY-D-6859BUTLE-W1-1-0131	73							
280-105999-37	FAY-D-3834HEART-W1-1-0131	63							
280-105999-38	FAY-D-3834HEART-W1-2-0131	65							
280-105999-39	FAY-D-3845HEART-W1-1-0131	65							
280-105999-40	FAY-D-3845HEART-W1-2-0131	67							
280-105999-41	FAY-D-3909HEART-W1-1-0131	65							
280-105999-42	FAY-D-3909HEART-W1-2-0131	68							
280-105999-43	FAY-D-3911HEART-W1-1-0131	67							
280-105999-44	FAY-D-3930HEART-W1-1-0131	67							
280-105999-45	FAY-D-3930HEART-W1-2-0131	69							
280-105999-46	FAY-D-3933HEART-W1-1-0131	66							
280-105999-47	FAY-D-3933HEART-W1-2-0131	68							

Surrogate Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Method: 8321A - HFPO-DA (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	HFPODA (50-200)	Percent Surrogate Recovery (Acceptance Limits)						
280-105999-48	FAY-D-3754HEART-W1-1-0130	64							
280-105999-49	FAY-D-3808HEART-W1-1-0130	67							
280-105999-50	FAY-D-3808HEART-W1-2-0130	72							
280-105999-51	FAY-D-3775HEART-W1-1-0130	69							
280-105999-52	FAY-D-3825HEART-W1-1-0131	69							
280-105999-53	FAY-D-3825HEART-W1-2-0130	71							
280-105999-54	FAY-D-3934HEART-W1-1-0131	72							
280-105999-55	FAY-D-3926HEART-W1-1-0131	71							
280-105999-56	FAY-D-3926HEART-W1-2-0131	73							
280-105999-57	FAY-D-3513TRERG-W1-1-0131	67							
280-105999-58	FAY-D-3513TRERG-W1-2-0131	82							
DLCK 280-404345/13	Lab Control Sample	104							
LCS 280-404157/2-A	Lab Control Sample	112							
LCS 280-404355/2-A	Lab Control Sample	92							
LCS 280-404356/2-A	Lab Control Sample	102							
LCS 280-404517/2-A	Lab Control Sample	62							
LCS 280-404518/2-A	Lab Control Sample	74							
LCSD 280-404157/3-A	Lab Control Sample Dup	119							
LCSD 280-404355/3-A	Lab Control Sample Dup	105							
LCSD 280-404356/3-A	Lab Control Sample Dup	101							
LCSD 280-404517/3-A	Lab Control Sample Dup	66							
LCSD 280-404518/3-A	Lab Control Sample Dup	71							
LLCS 280-404157/4-A	Lab Control Sample	119							
LLCS 280-404355/4-A	Lab Control Sample	92							
LLCS 280-404356/4-A	Lab Control Sample	100							
LLCS 280-404517/4-A	Lab Control Sample	63							
LLCS 280-404518/4-A	Lab Control Sample	73							
MB 280-404157/1-A	Method Blank	112							
MB 280-404355/1-A	Method Blank	96							
MB 280-404356/1-A	Method Blank	95							
MB 280-404517/1-A	Method Blank	65							
MB 280-404518/1-A	Method Blank	74							

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: 8321A - HFPO-DA

Lab Sample ID: MB 280-404157/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404346 — **Prep Batch: 404157**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/07/18 10:33	02/08/18 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*112*		*50 - 200*	*02/07/18 10:33*	*02/08/18 13:44*	*1*

Lab Sample ID: LCS 280-404157/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404346 — **Prep Batch: 404157**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.200	0.160		ug/L		80	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*112*		*50 - 200*

Lab Sample ID: LCSD 280-404157/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404346 — **Prep Batch: 404157**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.160		ug/L		80	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*119*		*50 - 200*

Lab Sample ID: LLCS 280-404157/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404346 — **Prep Batch: 404157**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.0200	0.0148		ug/L		74	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*119*		*50 - 200*

Lab Sample ID: DLCK 280-404345/13 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404345

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.250	<0.50		ug/L		90	70 - 130

Surrogate	*DLCK %Recovery*	*DLCK Qualifier*	*Limits*
13C3 HFPO-DA	*104*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: MB 280-404355/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404457 — **Prep Batch: 404355**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 17:57	02/09/18 09:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*96*		*50 - 200*	*02/08/18 17:57*	*02/09/18 09:21*	*1*

Lab Sample ID: LCS 280-404355/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404457 — **Prep Batch: 404355**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.200	0.227		ug/L		114	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*92*		*50 - 200*

Lab Sample ID: LCSD 280-404355/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404457 — **Prep Batch: 404355**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.212		ug/L		106	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*105*		*50 - 200*

Lab Sample ID: LLCS 280-404355/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404457 — **Prep Batch: 404355**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.0200	0.0203		ug/L		101	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*92*		*50 - 200*

Lab Sample ID: MB 280-404356/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404458 — **Prep Batch: 404356**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/08/18 18:22	02/09/18 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*95*		*50 - 200*	*02/08/18 18:22*	*02/09/18 10:55*	*1*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: LCS 280-404356/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404458 — **Prep Batch: 404356**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA			0.200	0.235		ug/L		118	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*102*		*50 - 200*

Lab Sample ID: LCSD 280-404356/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404458 — **Prep Batch: 404356**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA			0.200	0.194		ug/L		97	70 - 130	19	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*101*		*50 - 200*

Lab Sample ID: LLCS 280-404356/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404458 — **Prep Batch: 404356**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA			0.0200	0.0238		ug/L		119	70 - 130		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*100*		*50 - 200*

Lab Sample ID: 280-105999-21 MS — **Client Sample ID: FAY-D-5515MATTH-W1-1-013018**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404458 — **Prep Batch: 404356**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA	0.018		0.181	0.244		ug/L		124	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*93*		*50 - 200*

Lab Sample ID: 280-105999-21 DU — **Client Sample ID: FAY-D-5515MATTH-W1-1-013018**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404458 — **Prep Batch: 404356**

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
HFPO-DA	0.018			0.0221		ug/L				19	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
13C3 HFPO-DA	*94*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: MB 280-404517/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404640 — **Prep Batch: 404517**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:33	02/12/18 12:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*65*		*50 - 200*	*02/09/18 20:33*	*02/12/18 12:14*	*1*

Lab Sample ID: LCS 280-404517/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404640 — **Prep Batch: 404517**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.200	0.201		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*62*		*50 - 200*

Lab Sample ID: LCSD 280-404517/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404640 — **Prep Batch: 404517**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.205		ug/L		102	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*66*		*50 - 200*

Lab Sample ID: LLCS 280-404517/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404640 — **Prep Batch: 404517**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.0200	0.0228		ug/L		114	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*63*		*50 - 200*

Lab Sample ID: MB 280-404518/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404641 — **Prep Batch: 404518**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/09/18 20:54	02/12/18 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*74*		*50 - 200*	*02/09/18 20:54*	*02/12/18 13:42*	*1*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: LCS 280-404518/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404641 — **Prep Batch: 404518**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA			0.200	0.203		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*74*		*50 - 200*

Lab Sample ID: LCSD 280-404518/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404641 — **Prep Batch: 404518**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA			0.200	0.212		ug/L		106	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*71*		*50 - 200*

Lab Sample ID: LLCS 280-404518/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 404641 — **Prep Batch: 404518**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA			0.0200	0.0223		ug/L		111	70 - 130		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*73*		*50 - 200*

LCMS

Prep Batch: 404157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-26	FAY-D-2808CHIMB-W1-1-012918	Total/NA	Water	3535	
280-105999-27	FAY-D-FB-012918	Total/NA	Water	3535	
MB 280-404157/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404157/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404157/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404157/4-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 404345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
DLCK 280-404345/13	Lab Control Sample	Total/NA	Water	8321A	

Analysis Batch: 404346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-26	FAY-D-2808CHIMB-W1-1-012918	Total/NA	Water	8321A	404157
280-105999-27	FAY-D-FB-012918	Total/NA	Water	8321A	404157
MB 280-404157/1-A	Method Blank	Total/NA	Water	8321A	404157
LCS 280-404157/2-A	Lab Control Sample	Total/NA	Water	8321A	404157
LCSD 280-404157/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404157
LLCS 280-404157/4-A	Lab Control Sample	Total/NA	Water	8321A	404157

Prep Batch: 404355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-1	FAY-D-5140MATTH-W1-1-013018	Total/NA	Water	3535	
280-105999-2	FAY-D-5240MATTH-W1-1-013018	Total/NA	Water	3535	
280-105999-3	FAY-D-5226MATTH-W1-1-013018	Total/NA	Water	3535	
280-105999-4	FAY-D-4992HERSY-W1-1-013018	Total/NA	Water	3535	
280-105999-5	FAY-D-4976HERSY-W1-1-013018	Total/NA	Water	3535	
280-105999-6	FAY-D-4850OLDSV-W1-1-013118	Total/NA	Water	3535	
280-105999-7	FAY-D-4781OLDSV-W1-1-013118	Total/NA	Water	3535	
280-105999-8	FAY-D-7560TABOR-W1-1-013118	Total/NA	Water	3535	
280-105999-9	FAY-D-7560TABOR-W1-2-013118	Total/NA	Water	3535	
MB 280-404355/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404355/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404355/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404355/4-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 404356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-10	FAY-D-5140SNWBR-W1-1-013118	Total/NA	Water	3535	
280-105999-11	FAY-D-5010SNWBR-W1-1-013118	Total/NA	Water	3535	
280-105999-12	FAY-D-4900SNWBR-W1-1-013118	Total/NA	Water	3535	
280-105999-13	FAY-D-4863SNWBR-W1-1-013118	Total/NA	Water	3535	
280-105999-14	FAY-D-4839SNWBR-W1-1-013118	Total/NA	Water	3535	
280-105999-15	FAY-D-4809SNWBR-W1-1-013118	Total/NA	Water	3535	
280-105999-16	FAY-D-4830SNWBR-W1-1-013118	Total/NA	Water	3535	
280-105999-17	FAY-D-3612PNEBR-W1-1-013118	Total/NA	Water	3535	
280-105999-18	FAY-D-3612PNEBR-W1-2-013118	Total/NA	Water	3535	
280-105999-19	FAY-D-6883BUTLE-W1-1-013118	Total/NA	Water	3535	
280-105999-20	FAY-D-6900TABOR-W1-1-013018	Total/NA	Water	3535	
280-105999-21	FAY-D-5515MATTH-W1-1-013018	Total/NA	Water	3535	
280-105999-22	FAY-D-5455MATTH-W1-1-013018	Total/NA	Water	3535	

LCMS (Continued)

Prep Batch: 404356 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-23	FAY-D-5459MATTH-W1-1-013018	Total/NA	Water	3535	
280-105999-28	FAY-D-3067NC20H-W1-1-013118	Total/NA	Water	3535	
280-105999-29	FAY-D-FB-013118	Total/NA	Water	3535	
280-105999-30	FAY-D-2713NC20H-W1-1-013118	Total/NA	Water	3535	
280-105999-31	FAY-D-3065NC20H-W1-1-013118	Total/NA	Water	3535	
280-105999-34	FAY-D-3417DANDE-W1-1-013118	Total/NA	Water	3535	
MB 280-404356/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404356/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404356/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404356/4-A	Lab Control Sample	Total/NA	Water	3535	
280-105999-21 MS	FAY-D-5515MATTH-W1-1-013018	Total/NA	Water	3535	
280-105999-21 DU	FAY-D-5515MATTH-W1-1-013018	Total/NA	Water	3535	

Analysis Batch: 404457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-1	FAY-D-5140MATTH-W1-1-013018	Total/NA	Water	8321A	404355
280-105999-2	FAY-D-5240MATTH-W1-1-013018	Total/NA	Water	8321A	404355
280-105999-3	FAY-D-5226MATTH-W1-1-013018	Total/NA	Water	8321A	404355
280-105999-4	FAY-D-4992HERSY-W1-1-013018	Total/NA	Water	8321A	404355
280-105999-5	FAY-D-4976HERSY-W1-1-013018	Total/NA	Water	8321A	404355
280-105999-6	FAY-D-4850OLDSV-W1-1-013118	Total/NA	Water	8321A	404355
280-105999-7	FAY-D-4781OLDSV-W1-1-013118	Total/NA	Water	8321A	404355
280-105999-8	FAY-D-7560TABOR-W1-1-013118	Total/NA	Water	8321A	404355
280-105999-9	FAY-D-7560TABOR-W1-2-013118	Total/NA	Water	8321A	404355
MB 280-404355/1-A	Method Blank	Total/NA	Water	8321A	404355
LCS 280-404355/2-A	Lab Control Sample	Total/NA	Water	8321A	404355
LCSD 280-404355/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404355
LLCS 280-404355/4-A	Lab Control Sample	Total/NA	Water	8321A	404355

Analysis Batch: 404458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-10	FAY-D-5140SNWBR-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-11	FAY-D-5010SNWBR-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-12	FAY-D-4900SNWBR-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-13	FAY-D-4863SNWBR-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-14	FAY-D-4839SNWBR-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-15	FAY-D-4809SNWBR-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-16	FAY-D-4830SNWBR-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-17	FAY-D-3612PNEBR-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-18	FAY-D-3612PNEBR-W1-2-013118	Total/NA	Water	8321A	404356
280-105999-19	FAY-D-6883BUTLE-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-20	FAY-D-6900TABOR-W1-1-013018	Total/NA	Water	8321A	404356
280-105999-21	FAY-D-5515MATTH-W1-1-013018	Total/NA	Water	8321A	404356
280-105999-22	FAY-D-5455MATTH-W1-1-013018	Total/NA	Water	8321A	404356
280-105999-23	FAY-D-5459MATTH-W1-1-013018	Total/NA	Water	8321A	404356
280-105999-28	FAY-D-3067NC20H-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-29	FAY-D-FB-013118	Total/NA	Water	8321A	404356
280-105999-30	FAY-D-2713NC20H-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-31	FAY-D-3065NC20H-W1-1-013118	Total/NA	Water	8321A	404356
280-105999-34	FAY-D-3417DANDE-W1-1-013118	Total/NA	Water	8321A	404356
MB 280-404356/1-A	Method Blank	Total/NA	Water	8321A	404356

LCMS (Continued)

Analysis Batch: 404458 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-404356/2-A	Lab Control Sample	Total/NA	Water	8321A	404356
LCSD 280-404356/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404356
LLCS 280-404356/4-A	Lab Control Sample	Total/NA	Water	8321A	404356
280-105999-21 MS	FAY-D-5515MATTH-W1-1-013018	Total/NA	Water	8321A	404356
280-105999-21 DU	FAY-D-5515MATTH-W1-1-013018	Total/NA	Water	8321A	404356

Prep Batch: 404517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-24	FAY-D-5505MATTH-W1-1-013018	Total/NA	Water	3535	
280-105999-25	FAY-D-5515MATTH-W1-1-013018D	Total/NA	Water	3535	
280-105999-32	FAY-D-2713NC20H-W1-2-013118	Total/NA	Water	3535	
280-105999-33	FAY-D-3431DANDE-W1-1-013118	Total/NA	Water	3535	
280-105999-35	FAY-D-3203LUGSL-W1-1-013118	Total/NA	Water	3535	
280-105999-36	FAY-D-6859BUTLE-W1-1-013118	Total/NA	Water	3535	
280-105999-37	FAY-D-3834HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-38	FAY-D-3834HEART-W1-2-013118	Total/NA	Water	3535	
280-105999-39	FAY-D-3845HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-40	FAY-D-3845HEART-W1-2-013118	Total/NA	Water	3535	
280-105999-41	FAY-D-3909HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-42	FAY-D-3909HEART-W1-2-013118	Total/NA	Water	3535	
280-105999-43	FAY-D-3911HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-44	FAY-D-3930HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-45	FAY-D-3930HEART-W1-2-013118	Total/NA	Water	3535	
280-105999-46	FAY-D-3933HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-47	FAY-D-3933HEART-W1-2-013118	Total/NA	Water	3535	
280-105999-48	FAY-D-3754HEART-W1-1-013018	Total/NA	Water	3535	
280-105999-49	FAY-D-3808HEART-W1-1-013018	Total/NA	Water	3535	
280-105999-50	FAY-D-3808HEART-W1-2-013018	Total/NA	Water	3535	
MB 280-404517/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404517/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404517/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404517/4-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 404518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-51	FAY-D-3775HEART-W1-1-013018	Total/NA	Water	3535	
280-105999-52	FAY-D-3825HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-53	FAY-D-3825HEART-W1-2-013018	Total/NA	Water	3535	
280-105999-54	FAY-D-3934HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-55	FAY-D-3926HEART-W1-1-013118	Total/NA	Water	3535	
280-105999-56	FAY-D-3926HEART-W1-2-013118	Total/NA	Water	3535	
280-105999-57	FAY-D-3513TRERG-W1-1-013118	Total/NA	Water	3535	
280-105999-58	FAY-D-3513TRERG-W1-2-013118	Total/NA	Water	3535	
MB 280-404518/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-404518/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-404518/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-404518/4-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 404640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-24	FAY-D-5505MATTH-W1-1-013018	Total/NA	Water	8321A	404517

LCMS (Continued)

Analysis Batch: 404640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-25	FAY-D-5515MATTH-W1-1-013018D	Total/NA	Water	8321A	404517
280-105999-32	FAY-D-2713NC20H-W1-2-013118	Total/NA	Water	8321A	404517
280-105999-33	FAY-D-3431DANDE-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-35	FAY-D-3203LUGSL-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-36	FAY-D-6859BUTLE-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-37	FAY-D-3834HEART-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-38	FAY-D-3834HEART-W1-2-013118	Total/NA	Water	8321A	404517
280-105999-39	FAY-D-3845HEART-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-40	FAY-D-3845HEART-W1-2-013118	Total/NA	Water	8321A	404517
280-105999-41	FAY-D-3909HEART-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-42	FAY-D-3909HEART-W1-2-013118	Total/NA	Water	8321A	404517
280-105999-43	FAY-D-3911HEART-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-44	FAY-D-3930HEART-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-45	FAY-D-3930HEART-W1-2-013118	Total/NA	Water	8321A	404517
280-105999-46	FAY-D-3933HEART-W1-1-013118	Total/NA	Water	8321A	404517
280-105999-47	FAY-D-3933HEART-W1-2-013118	Total/NA	Water	8321A	404517
280-105999-48	FAY-D-3754HEART-W1-1-013018	Total/NA	Water	8321A	404517
280-105999-49	FAY-D-3808HEART-W1-1-013018	Total/NA	Water	8321A	404517
280-105999-50	FAY-D-3808HEART-W1-2-013018	Total/NA	Water	8321A	404517
MB 280-404517/1-A	Method Blank	Total/NA	Water	8321A	404517
LCS 280-404517/2-A	Lab Control Sample	Total/NA	Water	8321A	404517
LCSD 280-404517/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404517
LLCS 280-404517/4-A	Lab Control Sample	Total/NA	Water	8321A	404517

Analysis Batch: 404641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-105999-51	FAY-D-3775HEART-W1-1-013018	Total/NA	Water	8321A	404518
280-105999-52	FAY-D-3825HEART-W1-1-013118	Total/NA	Water	8321A	404518
280-105999-53	FAY-D-3825HEART-W1-2-013018	Total/NA	Water	8321A	404518
280-105999-54	FAY-D-3934HEART-W1-1-013118	Total/NA	Water	8321A	404518
280-105999-55	FAY-D-3926HEART-W1-1-013118	Total/NA	Water	8321A	404518
280-105999-56	FAY-D-3926HEART-W1-2-013118	Total/NA	Water	8321A	404518
280-105999-57	FAY-D-3513TRERG-W1-1-013118	Total/NA	Water	8321A	404518
280-105999-58	FAY-D-3513TRERG-W1-2-013118	Total/NA	Water	8321A	404518
MB 280-404518/1-A	Method Blank	Total/NA	Water	8321A	404518
LCS 280-404518/2-A	Lab Control Sample	Total/NA	Water	8321A	404518
LCSD 280-404518/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	404518
LLCS 280-404518/4-A	Lab Control Sample	Total/NA	Water	8321A	404518

Client Sample ID: FAY-D-5140MATTH-W1-1-013018 — Lab Sample ID: 280-105999-1

Date Collected: 01/30/18 08:56
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			262.4 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:37	AGCM	TAL DEN

Client Sample ID: FAY-D-5240MATTH-W1-1-013018 — Lab Sample ID: 280-105999-2

Date Collected: 01/30/18 09:46
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.8 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:41	AGCM	TAL DEN

Client Sample ID: FAY-D-5226MATTH-W1-1-013018 — Lab Sample ID: 280-105999-3

Date Collected: 01/30/18 09:50
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.5 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:44	AGCM	TAL DEN

Client Sample ID: FAY-D-4992HERSY-W1-1-013018 — Lab Sample ID: 280-105999-4

Date Collected: 01/30/18 11:05
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			264.2 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:47	AGCM	TAL DEN

Client Sample ID: FAY-D-4976HERSY-W1-1-013018 — Lab Sample ID: 280-105999-5

Date Collected: 01/30/18 11:16
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287.5 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:50	AGCM	TAL DEN

Client Sample ID: FAY-D-4850OLDSV-W1-1-013118 — Lab Sample ID: 280-105999-6

Date Collected: 01/31/18 10:07
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287.9 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:57	AGCM	TAL DEN

Client Sample ID: FAY-D-4781OLDSV-W1-1-013118 — Lab Sample ID: 280-105999-7

Date Collected: 01/31/18 10:14
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			290.9 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 10:00	AGCM	TAL DEN

Client Sample ID: FAY-D-7560TABOR-W1-1-013118 — Lab Sample ID: 280-105999-8

Date Collected: 01/31/18 14:28
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			296.5 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 10:03	AGCM	TAL DEN

Client Sample ID: FAY-D-7560TABOR-W1-2-013118 — Lab Sample ID: 280-105999-9

Date Collected: 01/31/18 14:31
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			285.5 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 10:07	AGCM	TAL DEN

Client Sample ID: FAY-D-5140SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-10

Date Collected: 01/31/18 14:59
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:09	AGCM	TAL DEN

Client Sample ID: FAY-D-5010SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-11

Date Collected: 01/31/18 15:21
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256.2 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:12	AGCM	TAL DEN

Client Sample ID: FAY-D-4900SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-12

Date Collected: 01/31/18 15:50
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:15	AGCM	TAL DEN

Client Sample ID: FAY-D-4863SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-13

Date Collected: 01/31/18 16:02
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			289.8 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:18	AGCM	TAL DEN

Client Sample ID: FAY-D-4839SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-14

Date Collected: 01/31/18 16:17
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			278.7 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:22	AGCM	TAL DEN

Client Sample ID: FAY-D-4809SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-15

Date Collected: 01/31/18 16:19
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.7 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:25	AGCM	TAL DEN

Client Sample ID: FAY-D-4830SNWBR-W1-1-013118 — Lab Sample ID: 280-105999-16

Date Collected: 01/31/18 16:37
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.2 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:31	AGCM	TAL DEN

Client Sample ID: FAY-D-3612PNEBR-W1-1-013118 — Lab Sample ID: 280-105999-17

Date Collected: 01/31/18 15:31
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.6 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:35	AGCM	TAL DEN

Client Sample ID: FAY-D-3612PNEBR-W1-2-013118 — Lab Sample ID: 280-105999-18

Date Collected: 01/31/18 15:31
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			278.6 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:38	AGCM	TAL DEN

Client Sample ID: FAY-D-6883BUTLE-W1-1-013118 — Lab Sample ID: 280-105999-19

Date Collected: 01/31/18 16:32
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.5 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:41	AGCM	TAL DEN

Client Sample ID: FAY-D-6900TABOR-W1-1-013018 — Lab Sample ID: 280-105999-20

Date Collected: 01/30/18 12:47
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.1 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:44	AGCM	TAL DEN

Client Sample ID: FAY-D-5515MATTH-W1-1-013018 — Lab Sample ID: 280-105999-21

Date Collected: 01/30/18 15:16
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			291.7 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:48	AGCM	TAL DEN

Client Sample ID: FAY-D-5455MATTH-W1-1-013018 — Lab Sample ID: 280-105999-22

Date Collected: 01/30/18 17:03
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			278 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:57	AGCM	TAL DEN

Client Sample ID: FAY-D-5459MATTH-W1-1-013018 — Lab Sample ID: 280-105999-23

Date Collected: 01/30/18 16:34
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			282.5 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 12:01	AGCM	TAL DEN

Client Sample ID: FAY-D-5505MATTH-W1-1-013018 — Lab Sample ID: 280-105999-24

Date Collected: 01/30/18 16:45
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.6 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:27	AGCM	TAL DEN

Client Sample ID: FAY-D-5515MATTH-W1-1-013018D — Lab Sample ID: 280-105999-25

Date Collected: 01/30/18 15:16
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			267.2 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:30	AGCM	TAL DEN

Client Sample ID: FAY-D-2808CHIMB-W1-1-012918 — Lab Sample ID: 280-105999-26

Date Collected: 01/29/18 14:11
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250.7 mL	5 mL	404157	02/07/18 10:33	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404346	02/08/18 13:57	AGCM	TAL DEN

Client Sample ID: FAY-D-FB-012918 — Lab Sample ID: 280-105999-27

Date Collected: 01/29/18 07:00
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			244.7 mL	5 mL	404157	02/07/18 10:33	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404346	02/08/18 14:00	AGCM	TAL DEN

Client Sample ID: FAY-D-3067NC20H-W1-1-013118 — Lab Sample ID: 280-105999-28

Date Collected: 01/31/18 15:07
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			284.9 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 12:10	AGCM	TAL DEN

Client Sample ID: FAY-D-FB-013118 — Lab Sample ID: 280-105999-29

Date Collected: 01/31/18 08:30
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			288.2 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 12:14	AGCM	TAL DEN

Client Sample ID: FAY-D-2713NC20H-W1-1-013118 — Lab Sample ID: 280-105999-30

Date Collected: 01/31/18 16:15
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			296.1 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 12:17	AGCM	TAL DEN

Client Sample ID: FAY-D-3065NC20H-W1-1-013118 — Lab Sample ID: 280-105999-31

Date Collected: 01/31/18 15:24
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			270.8 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 12:20	AGCM	TAL DEN

Client Sample ID: FAY-D-2713NC20H-W1-2-013118 — Lab Sample ID: 280-105999-32

Date Collected: 01/31/18 16:15
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			287.8 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:33	AGCM	TAL DEN

Client Sample ID: FAY-D-3431DANDE-W1-1-013118 — Lab Sample ID: 280-105999-33

Date Collected: 01/31/18 14:34
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.7 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:37	AGCM	TAL DEN

Client Sample ID: FAY-D-3417DANDE-W1-1-013118 — Lab Sample ID: 280-105999-34

Date Collected: 01/31/18 14:43
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			299 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 12:23	AGCM	TAL DEN

Client Sample ID: FAY-D-3203LUGSL-W1-1-013118 — Lab Sample ID: 280-105999-35

Date Collected: 01/31/18 15:54
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.3 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:40	AGCM	TAL DEN

Client Sample ID: FAY-D-6859BUTLE-W1-1-013118 — Lab Sample ID: 280-105999-36

Date Collected: 01/31/18 16:40
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:43	AGCM	TAL DEN

Client Sample ID: FAY-D-3834HEART-W1-1-013118 — Lab Sample ID: 280-105999-37

Date Collected: 01/31/18 09:11
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			284.1 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:50	AGCM	TAL DEN

Client Sample ID: FAY-D-3834HEART-W1-2-013118 — Lab Sample ID: 280-105999-38

Date Collected: 01/31/18 08:59
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			294.3 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:53	AGCM	TAL DEN

Client Sample ID: FAY-D-3845HEART-W1-1-013118 — Lab Sample ID: 280-105999-39

Date Collected: 01/31/18 09:31
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:56	AGCM	TAL DEN

Client Sample ID: FAY-D-3845HEART-W1-2-013118 — Lab Sample ID: 280-105999-40

Date Collected: 01/31/18 09:35
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.2 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:59	AGCM	TAL DEN

Client Sample ID: FAY-D-3909HEART-W1-1-013118 — Lab Sample ID: 280-105999-41

Date Collected: 01/31/18 09:54
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			278.7 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:03	AGCM	TAL DEN

Client Sample ID: FAY-D-3909HEART-W1-2-013118 — Lab Sample ID: 280-105999-42

Date Collected: 01/31/18 09:56
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			272.4 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:06	AGCM	TAL DEN

Client Sample ID: FAY-D-3911HEART-W1-1-013118 — Lab Sample ID: 280-105999-43

Date Collected: 01/31/18 10:12
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			269.3 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:09	AGCM	TAL DEN

Client Sample ID: FAY-D-3930HEART-W1-1-013118 — Lab Sample ID: 280-105999-44

Date Collected: 01/31/18 10:32
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.7 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:12	AGCM	TAL DEN

Client Sample ID: FAY-D-3930HEART-W1-2-013118 — Lab Sample ID: 280-105999-45

Date Collected: 01/31/18 10:37
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.9 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:16	AGCM	TAL DEN

Client Sample ID: FAY-D-3933HEART-W1-1-013118 — Lab Sample ID: 280-105999-46

Date Collected: 01/31/18 10:59
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			269.4 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:19	AGCM	TAL DEN

Client Sample ID: FAY-D-3933HEART-W1-2-013118 — Lab Sample ID: 280-105999-47

Date Collected: 01/31/18 11:02
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.9 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:25	AGCM	TAL DEN

Client Sample ID: FAY-D-3754HEART-W1-1-013018 — Lab Sample ID: 280-105999-48

Date Collected: 01/30/18 14:56
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			260.4 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:29	AGCM	TAL DEN

Client Sample ID: FAY-D-3808HEART-W1-1-013018 — Lab Sample ID: 280-105999-49

Date Collected: 01/30/18 15:59
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.1 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:32	AGCM	TAL DEN

Client Sample ID: FAY-D-3808HEART-W1-2-013018 — Lab Sample ID: 280-105999-50

Date Collected: 01/30/18 16:01
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			278.9 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 13:35	AGCM	TAL DEN

Client Sample ID: FAY-D-3775HEART-W1-1-013018 — Lab Sample ID: 280-105999-51

Date Collected: 01/30/18 16:16
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.9 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:08	AGCM	TAL DEN

Client Sample ID: FAY-D-3825HEART-W1-1-013118 — Lab Sample ID: 280-105999-52

Date Collected: 01/31/18 08:45
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			270 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:11	AGCM	TAL DEN

Client Sample ID: FAY-D-3825HEART-W1-2-013018 — Lab Sample ID: 280-105999-53

Date Collected: 01/30/18 16:29
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.3 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:18	AGCM	TAL DEN

Client Sample ID: FAY-D-3934HEART-W1-1-013118 — Lab Sample ID: 280-105999-54

Date Collected: 01/31/18 10:49
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283.7 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:21	AGCM	TAL DEN

Client Sample ID: FAY-D-3926HEART-W1-1-013118 — Lab Sample ID: 280-105999-55

Date Collected: 01/31/18 11:28
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.6 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:24	AGCM	TAL DEN

Client Sample ID: FAY-D-3926HEART-W1-2-013118 — Lab Sample ID: 280-105999-56

Date Collected: 01/31/18 11:25
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			286 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:28	AGCM	TAL DEN

Client Sample ID: FAY-D-3513TRERG-W1-1-013118 — Lab Sample ID: 280-105999-57

Date Collected: 01/31/18 14:45
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			288.7 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:31	AGCM	TAL DEN

Client Sample ID: FAY-D-3513TRERG-W1-2-013118 — Lab Sample ID: 280-105999-58

Date Collected: 01/31/18 14:42
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.4 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 14:34	AGCM	TAL DEN

Client Sample ID: Method Blank — Lab Sample ID: MB 280-404157/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404157	02/07/18 10:33	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404346	02/08/18 13:44	AGCM	TAL DEN

Client Sample ID: Method Blank — Lab Sample ID: MB 280-404355/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:21	AGCM	TAL DEN

Client Sample ID: Method Blank — Lab Sample ID: MB 280-404356/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 10:55	AGCM	TAL DEN

Client Sample ID: Method Blank — Lab Sample ID: MB 280-404517/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:14	AGCM	TAL DEN

Client Sample ID: Method Blank — Lab Sample ID: MB 280-404518/1-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:42	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: DLCK 280-404345/13

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8321A		1			404345	02/08/18 13:38	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404157/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404157	02/07/18 10:33	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404346	02/08/18 13:47	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404355/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:24	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404356/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 10:59	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404517/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:17	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-404518/2-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:45	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404157/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404157	02/07/18 10:33	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404346	02/08/18 13:50	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404355/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:28	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404356/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:02	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404517/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:20	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-404518/3-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:48	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LLCS 280-404157/4-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404157	02/07/18 10:33	HMA	TAL DEN
Total/NA	Analysis	8321A		1			404346	02/08/18 13:54	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LLCS 280-404355/4-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404355	02/08/18 17:57	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404457	02/09/18 09:31	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LLCS 280-404356/4-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:05	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LLCS 280-404517/4-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404517	02/09/18 20:33	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404640	02/12/18 12:24	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LLCS 280-404518/4-A

Date Collected: N/A
Date Received: N/A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			250 mL	5 mL	404518	02/09/18 20:54	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404641	02/12/18 13:52	AGCM	TAL DEN

Client Sample ID: FAY-D-5515MATTH-W1-1-013018 — Lab Sample ID: 280-105999-21 MS

Date Collected: 01/30/18 15:16
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.8 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:54	AGCM	TAL DEN

Client Sample ID: FAY-D-5515MATTH-W1-1-013018 — Lab Sample ID: 280-105999-21 DU

Date Collected: 01/30/18 15:16
Date Received: 02/01/18 09:00
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.5 mL	5 mL	404356	02/08/18 18:22	CDC	TAL DEN
Total/NA	Analysis	8321A		1			404458	02/09/18 11:51	AGCM	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Laboratory: TestAmerica Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
North Carolina (WW/SW)	State Program	4	358	12-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8321A	3535	Water	HFPO-DA

Method Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Method	Method Description	Protocol	Laboratory
8321A	HFPO-DA	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-105999-1	FAY-D-5140MATTH-W1-1-013018	Water	01/30/18 08:56	02/01/18 09:00
280-105999-2	FAY-D-5240MATTH-W1-1-013018	Water	01/30/18 09:46	02/01/18 09:00
280-105999-3	FAY-D-5226MATTH-W1-1-013018	Water	01/30/18 09:50	02/01/18 09:00
280-105999-4	FAY-D-4992HERSY-W1-1-013018	Water	01/30/18 11:05	02/01/18 09:00
280-105999-5	FAY-D-4976HERSY-W1-1-013018	Water	01/30/18 11:16	02/01/18 09:00
280-105999-6	FAY-D-4850OLDSV-W1-1-013118	Water	01/31/18 10:07	02/01/18 09:00
280-105999-7	FAY-D-4781OLDSV-W1-1-013118	Water	01/31/18 10:14	02/01/18 09:00
280-105999-8	FAY-D-7560TABOR-W1-1-013118	Water	01/31/18 14:28	02/01/18 09:00
280-105999-9	FAY-D-7560TABOR-W1-2-013118	Water	01/31/18 14:31	02/01/18 09:00
280-105999-10	FAY-D-5140SNWBR-W1-1-013118	Water	01/31/18 14:59	02/01/18 09:00
280-105999-11	FAY-D-5010SNWBR-W1-1-013118	Water	01/31/18 15:21	02/01/18 09:00
280-105999-12	FAY-D-4900SNWBR-W1-1-013118	Water	01/31/18 15:50	02/01/18 09:00
280-105999-13	FAY-D-4863SNWBR-W1-1-013118	Water	01/31/18 16:02	02/01/18 09:00
280-105999-14	FAY-D-4839SNWBR-W1-1-013118	Water	01/31/18 16:17	02/01/18 09:00
280-105999-15	FAY-D-4809SNWBR-W1-1-013118	Water	01/31/18 16:19	02/01/18 09:00
280-105999-16	FAY-D-4830SNWBR-W1-1-013118	Water	01/31/18 16:37	02/01/18 09:00
280-105999-17	FAY-D-3612PNEBR-W1-1-013118	Water	01/31/18 15:31	02/01/18 09:00
280-105999-18	FAY-D-3612PNEBR-W1-2-013118	Water	01/31/18 15:31	02/01/18 09:00
280-105999-19	FAY-D-6883BUTLE-W1-1-013118	Water	01/31/18 16:32	02/01/18 09:00
280-105999-20	FAY-D-6900TABOR-W1-1-013018	Water	01/30/18 12:47	02/01/18 09:00
280-105999-21	FAY-D-5515MATTH-W1-1-013018	Water	01/30/18 15:16	02/01/18 09:00
280-105999-22	FAY-D-5455MATTH-W1-1-013018	Water	01/30/18 17:03	02/01/18 09:00
280-105999-23	FAY-D-5459MATTH-W1-1-013018	Water	01/30/18 16:34	02/01/18 09:00
280-105999-24	FAY-D-5505MATTH-W1-1-013018	Water	01/30/18 16:45	02/01/18 09:00
280-105999-25	FAY-D-5515MATTH-W1-1-013018D	Water	01/30/18 15:16	02/01/18 09:00
280-105999-26	FAY-D-2808CHIMB-W1-1-012918	Water	01/29/18 14:11	02/01/18 09:00
280-105999-27	FAY-D-FB-012918	Water	01/29/18 07:00	02/01/18 09:00
280-105999-28	FAY-D-3067NC20H-W1-1-013118	Water	01/31/18 15:07	02/01/18 09:00
280-105999-29	FAY-D-FB-013118	Water	01/31/18 08:30	02/01/18 09:00
280-105999-30	FAY-D-2713NC20H-W1-1-013118	Water	01/31/18 16:15	02/01/18 09:00
280-105999-31	FAY-D-3065NC20H-W1-1-013118	Water	01/31/18 15:24	02/01/18 09:00
280-105999-32	FAY-D-2713NC20H-W1-2-013118	Water	01/31/18 16:15	02/01/18 09:00
280-105999-33	FAY-D-3431DANDE-W1-1-013118	Water	01/31/18 14:34	02/01/18 09:00
280-105999-34	FAY-D-3417DANDE-W1-1-013118	Water	01/31/18 14:43	02/01/18 09:00
280-105999-35	FAY-D-3203LUGSL-W1-1-013118	Water	01/31/18 15:54	02/01/18 09:00
280-105999-36	FAY-D-6859BUTLE-W1-1-013118	Water	01/31/18 16:40	02/01/18 09:00
280-105999-37	FAY-D-3834HEART-W1-1-013118	Water	01/31/18 09:11	02/01/18 09:00
280-105999-38	FAY-D-3834HEART-W1-2-013118	Water	01/31/18 08:59	02/01/18 09:00
280-105999-39	FAY-D-3845HEART-W1-1-013118	Water	01/31/18 09:31	02/01/18 09:00
280-105999-40	FAY-D-3845HEART-W1-2-013118	Water	01/31/18 09:35	02/01/18 09:00
280-105999-41	FAY-D-3909HEART-W1-1-013118	Water	01/31/18 09:54	02/01/18 09:00
280-105999-42	FAY-D-3909HEART-W1-2-013118	Water	01/31/18 09:56	02/01/18 09:00
280-105999-43	FAY-D-3911HEART-W1-1-013118	Water	01/31/18 10:12	02/01/18 09:00
280-105999-44	FAY-D-3930HEART-W1-1-013118	Water	01/31/18 10:32	02/01/18 09:00
280-105999-45	FAY-D-3930HEART-W1-2-013118	Water	01/31/18 10:37	02/01/18 09:00
280-105999-46	FAY-D-3933HEART-W1-1-013118	Water	01/31/18 10:59	02/01/18 09:00
280-105999-47	FAY-D-3933HEART-W1-2-013118	Water	01/31/18 11:02	02/01/18 09:00
280-105999-48	FAY-D-3754HEART-W1-1-013018	Water	01/30/18 14:56	02/01/18 09:00
280-105999-49	FAY-D-3808HEART-W1-1-013018	Water	01/30/18 15:59	02/01/18 09:00
280-105999-50	FAY-D-3808HEART-W1-2-013018	Water	01/30/18 16:01	02/01/18 09:00
280-105999-51	FAY-D-3775HEART-W1-1-013018	Water	01/30/18 16:16	02/01/18 09:00
280-105999-52	FAY-D-3825HEART-W1-1-013118	Water	01/31/18 08:45	02/01/18 09:00
280-105999-53	FAY-D-3825HEART-W1-2-013018	Water	01/30/18 16:29	02/01/18 09:00

Sample Summary

Client: Chemours Company FC, LLC The
Project/Site: FAY-2018 Residential Sampling

TestAmerica Job ID: 280-105999-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-105999-54	FAY-D-3934HEART-W1-1-013118	Water	01/31/18 10:49	02/01/18 09:00
280-105999-55	FAY-D-3926HEART-W1-1-013118	Water	01/31/18 11:28	02/01/18 09:00
280-105999-56	FAY-D-3926HEART-W1-2-013118	Water	01/31/18 11:25	02/01/18 09:00
280-105999-57	FAY-D-3513TRERG-W1-1-013118	Water	01/31/18 14:45	02/01/18 09:00
280-105999-58	FAY-D-3513TRERG-W1-2-013118	Water	01/31/18 14:42	02/01/18 09:00

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404345

Lab Sample ID: STD001 280-404345/3 IC Client Sample ID:

Date Analyzed: 02/08/18 13:05 Lab File ID: hfpo718B08034.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	1.06	Assign Peak	meyera	02/08/18 15:19

Lab Sample ID: STD002 280-404345/4 IC Client Sample ID:

Date Analyzed: 02/08/18 13:08 Lab File ID: hfpo718B08035.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	1.06	Baseline	meyera	02/08/18 15:19

Lab Sample ID: DLCK 280-404345/13 Client Sample ID:

Date Analyzed: 02/08/18 13:38 Lab File ID: hfpo718B08044.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	1.06	Baseline	meyera	02/08/18 15:20

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404457

Lab Sample ID: 280-105999-3 Client Sample ID: FAY-D-5226MATTH-W1-1-013018

Date Analyzed: 02/09/18 09:44 Lab File ID: hfpo718B09021.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.93	Baseline	meyera	02/09/18 11:59

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404458

Lab Sample ID: 280-105999-19 Client Sample ID: FAY-D-6883BUTLE-W1-1-013118

Date Analyzed: 02/09/18 11:41 Lab File ID: hfpo718B09057.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/09/18 12:53

Lab Sample ID: 280-105999-21 Client Sample ID: FAY-D-5515MATTH-W1-1-013018

Date Analyzed: 02/09/18 11:48 Lab File ID: hfpo718B09059.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/09/18 12:53

Lab Sample ID: 280-105999-21 DU Client Sample ID: FAY-D-5515MATTH-W1-1-013018 DU

Date Analyzed: 02/09/18 11:51 Lab File ID: hfpo718B09060.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Assign Peak	meyera	02/09/18 12:54

Lab Sample ID: 280-105999-23 Client Sample ID: FAY-D-5459MATTH-W1-1-013018

Date Analyzed: 02/09/18 12:01 Lab File ID: hfpo718B09063.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Assign Peak	meyera	02/09/18 12:54

Lab Sample ID: 280-105999-30 Client Sample ID: FAY-D-2713NC20H-W1-1-013118

Date Analyzed: 02/09/18 12:17 Lab File ID: hfpo718B09068.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.93	Assign Peak	meyera	02/09/18 12:54

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404640

Lab Sample ID: LLCS 280-404517/4-A Client Sample ID:

Date Analyzed: 02/12/18 12:24 Lab File ID: hfpo718B12040.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/12/18 14:27

Lab Sample ID: 280-105999-24 Client Sample ID: FAY-D-5505MATTH-W1-1-013018

Date Analyzed: 02/12/18 12:27 Lab File ID: hfpo718B12041.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.93	Baseline	meyera	02/12/18 14:27

Lab Sample ID: 280-105999-32 Client Sample ID: FAY-D-2713NC20H-W1-2-013118

Date Analyzed: 02/12/18 12:33 Lab File ID: hfpo718B12043.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Assign Peak	meyera	02/12/18 14:28

Lab Sample ID: 280-105999-37 Client Sample ID: FAY-D-3834HEART-W1-1-013118

Date Analyzed: 02/12/18 12:50 Lab File ID: hfpo718B12048.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.99	Baseline	meyera	02/12/18 14:28

Lab Sample ID: 280-105999-39 Client Sample ID: FAY-D-3845HEART-W1-1-013118

Date Analyzed: 02/12/18 12:56 Lab File ID: hfpo718B12050.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.93	Baseline	meyera	02/12/18 14:28

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404640

Lab Sample ID: 280-105999-43 Client Sample ID: FAY-D-3911HEART-W1-1-013118

Date Analyzed: 02/12/18 13:09 Lab File ID: hfpo718B12054.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/12/18 14:29

Lab Sample ID: 280-105999-49 Client Sample ID: FAY-D-3808HEART-W1-1-013018

Date Analyzed: 02/12/18 13:32 Lab File ID: hfpo718B12061.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/12/18 14:29

Lab Sample ID: 280-105999-50 Client Sample ID: FAY-D-3808HEART-W1-2-013018

Date Analyzed: 02/12/18 13:35 Lab File ID: hfpo718B12062.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.93	Assign Peak	meyera	02/12/18 14:29

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 404641

Lab Sample ID: 280-105999-54 Client Sample ID: FAY-D-3934HEART-W1-1-013118

Date Analyzed: 02/12/18 14:21 Lab File ID: hfpo718B12076.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/12/18 14:50

Lab Sample ID: 280-105999-57 Client Sample ID: FAY-D-3513TRERG-W1-1-013118

Date Analyzed: 02/12/18 14:31 Lab File ID: hfpo718B12079.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.92	Baseline	meyera	02/12/18 14:51

8321A

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HFPO I.S._00007	12/12/18	12/12/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00007	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
.13C3 HFPO-DA_00007	08/17/20	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
.13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
.HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-0_00032	02/22/18	02/08/18	PFC_Dill_Solvent, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
HFPO_CAL-1_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	0.5 uL	HFPO-DA	0.25 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-2_00033	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	1 uL	HFPO-DA	0.5 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HFPO_CAL-3_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	2 uL	HFPO-DA	1 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-4_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	4 uL	HFPO-DA	2 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-5_00080	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	10 uL	HFPO-DA	5 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-6_00080	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	20 uL	HFPO-DA	10 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-7_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	50 uL	HFPO-DA	25 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-8_00032	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	100 uL	HFPO-DA	50 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_CAL-9_00001	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
							13C3 HFPO-DA (IS)	10 ug/L
					HFPO Spike_00004	200 uL	HFPO-DA	100 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL
							13C3 HFPO-DA (IS)	0.5 ug/mL
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
							13C3 HFPO-DA (IS)	50 ug/mL
.HFPO Spike_00004	10/30/18	10/30/17	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	HFPO-DA_00004	1 mL	HFPO-DA	0.5 ug/mL
..HFPO-DA_00004	07/13/20	Wellington Laboratories, Lot HFPODA0717			(Purchased Reagent)		HFPO-DA	50 ug/mL
HFPO_ICV_00034	02/22/18	02/08/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00008	20 uL	13C3 HFPO-DA	10 ug/L
					HFPO ICV_00001	10 uL	HFPO-DA	1.95009 ug/L
.HFPO I.S._00008	12/12/18	01/30/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00008	1 mL	13C3 HFPO-DA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..13C3 HFPO-DA_00008	01/30/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.HFPO ICV_00001	11/03/18	11/03/17	Methanol, Lot 12345	100 mL	HFPO SS stock_00002	20 uL	HFPO-DA	0.195009 ug/mL
..HFPO SS stock_00002	11/03/18	11/03/17	Methanol, Lot 12345	500 mL	HFPO SS_00003	0.5026 g	HFPO-DA	975.044 ug/mL
...HFPO SS_00003	05/23/21	Synquest Laboratories, Lot Q141-128			(Purchased Reagent)		HFPO-DA	97 %

Reagent

13C3 HFPO-DA_00007

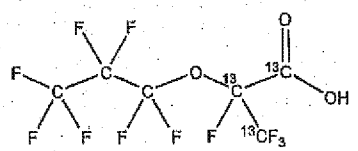
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA0817

COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-$^{13}C_3$-propanoic acid

STRUCTURE: **CAS #:** Not available



MOLECULAR FORMULA:	$^{13}C_3{}^{12}C_3HF_{11}O_3$	**MOLECULAR WEIGHT:**	333.03
CONCENTRATION:	50 ± 2.5 µg/ml	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%	**ISOTOPIC PURITY:**	≥99% ^{13}C ($^{13}C_3$)
LAST TESTED: (mm/dd/yyyy)	08/17/2017		
EXPIRY DATE: (mm/dd/yyyy)	08/17/2020		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/-DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains ~ 1.5% of two constitutional isomers.
- Product is commercially known as GenX.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 08/25/2017 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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HAZARDS:

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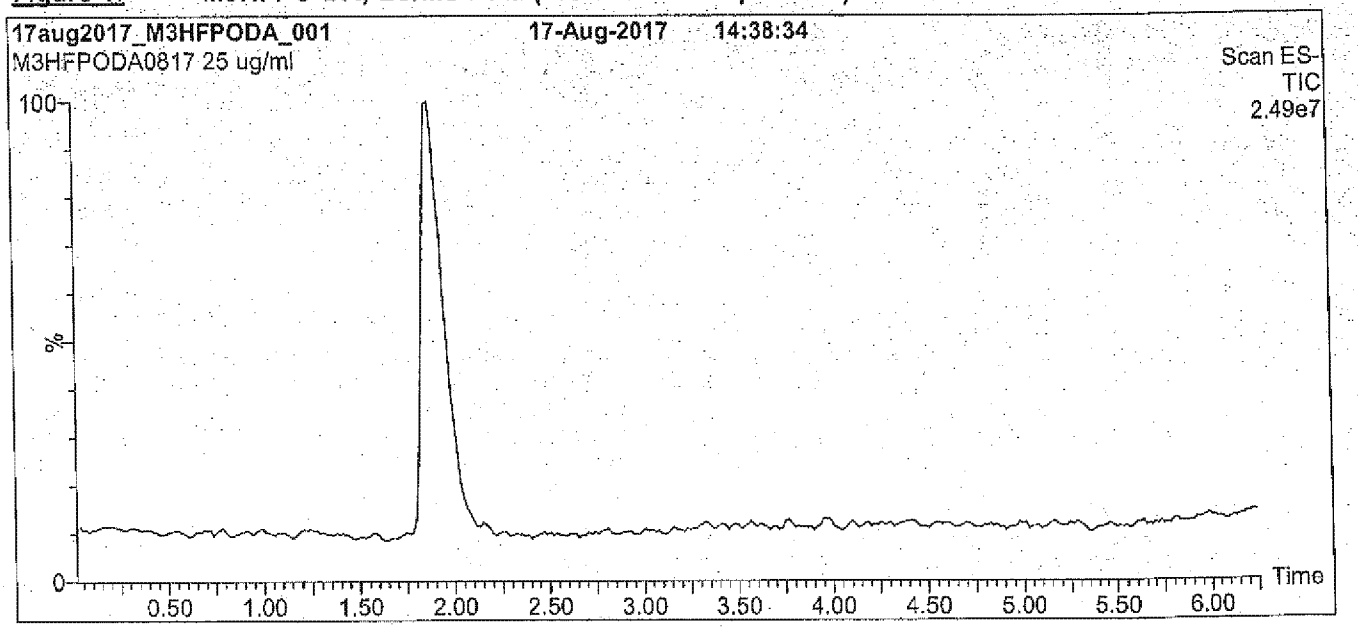
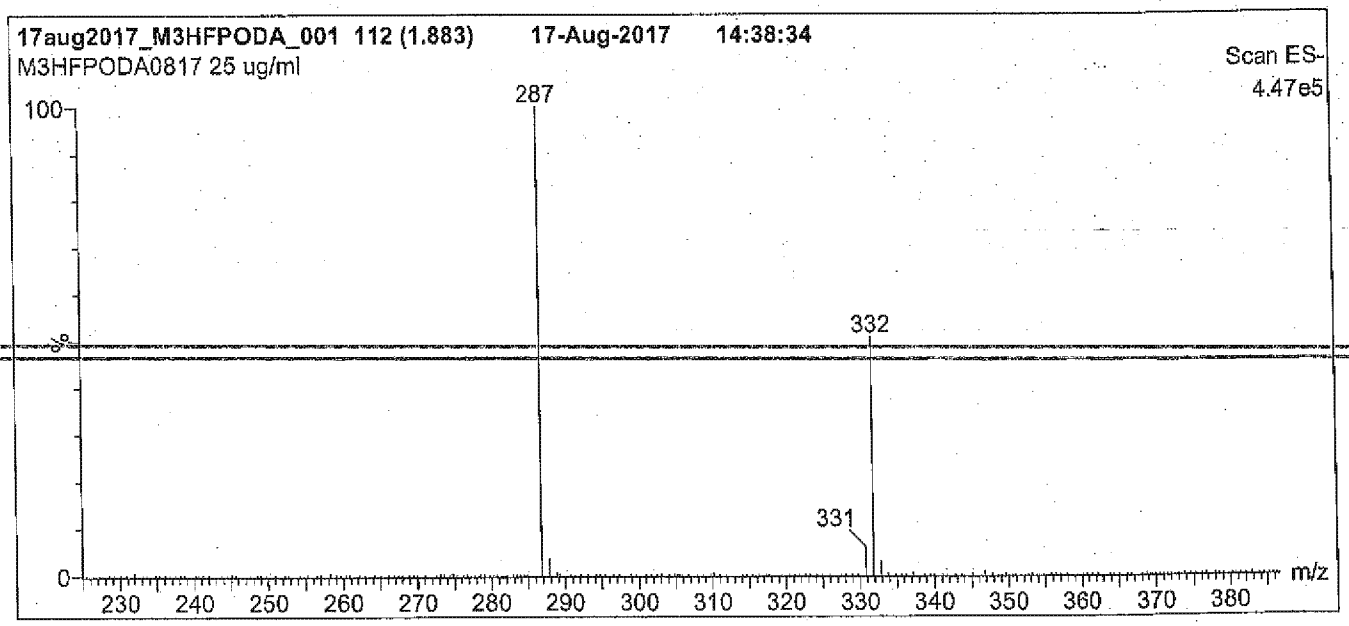
Figure 1: **M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**





Conditions for Figure 1:

LC: **Waters Acquity Ultra Performance LC**
MS: **Micromass Quattro *micro* API MS**

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% MeOH / 45% H_2O with 10 mM NH_4OAc buffer
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.

Time: 10 min

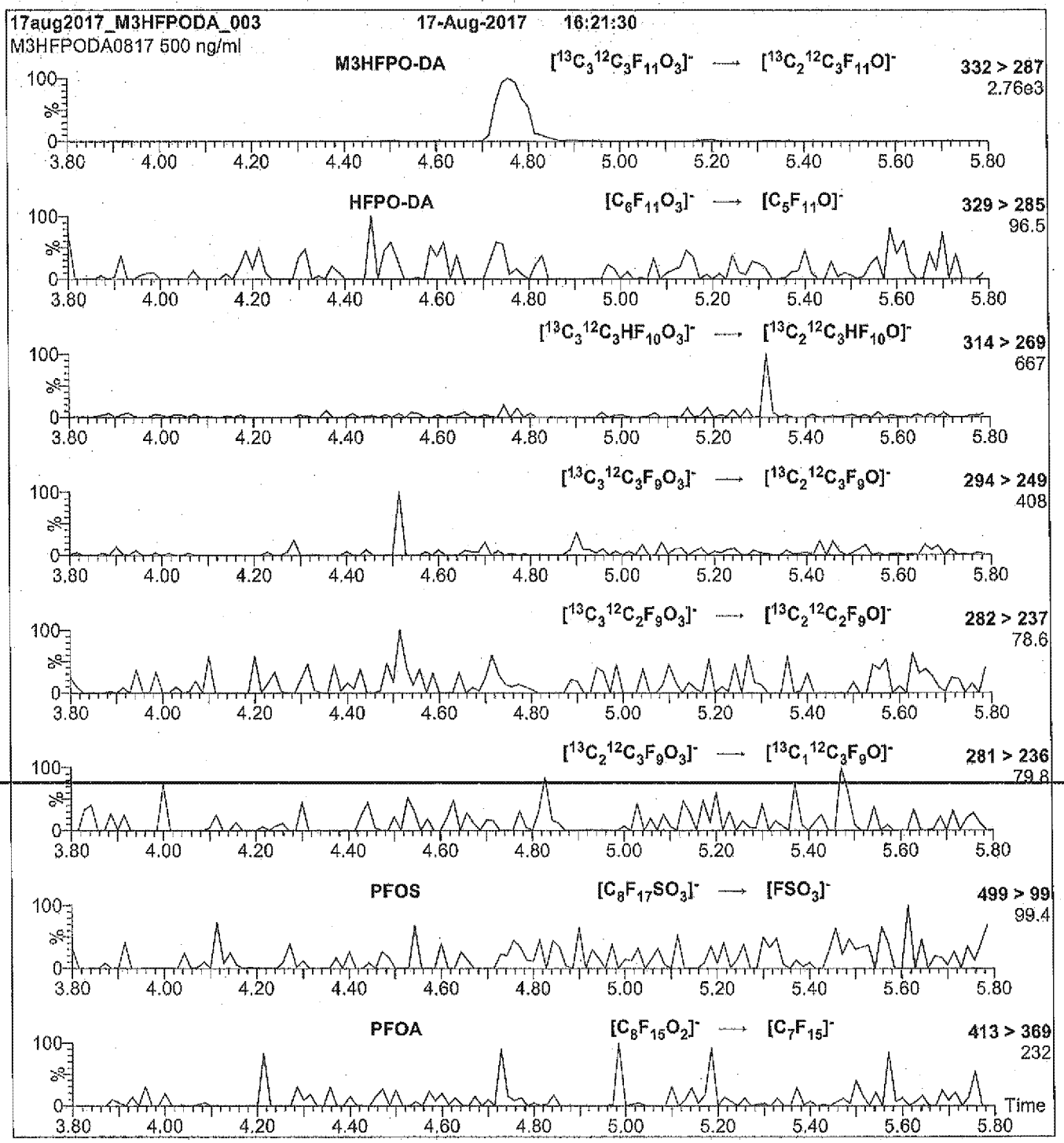
Flow: 300 µl/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml M3HFPO-DA)

Mobile phase: Isocratic 80% MeOH / 20% H_2O with 10 mM NH_4OAc buffer

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.24e-3
Collision Energy (eV) = 5

Reagent

13C3 HFPO-DA_00008

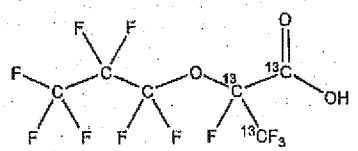
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: M3HFPO-DA **LOT NUMBER:** M3HFPODA0817

COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-$^{13}C_3$-propanoic acid

STRUCTURE: **CAS #:** Not available



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EXPIRY DATE: (mm/dd/yyyy)	08/17/2020		
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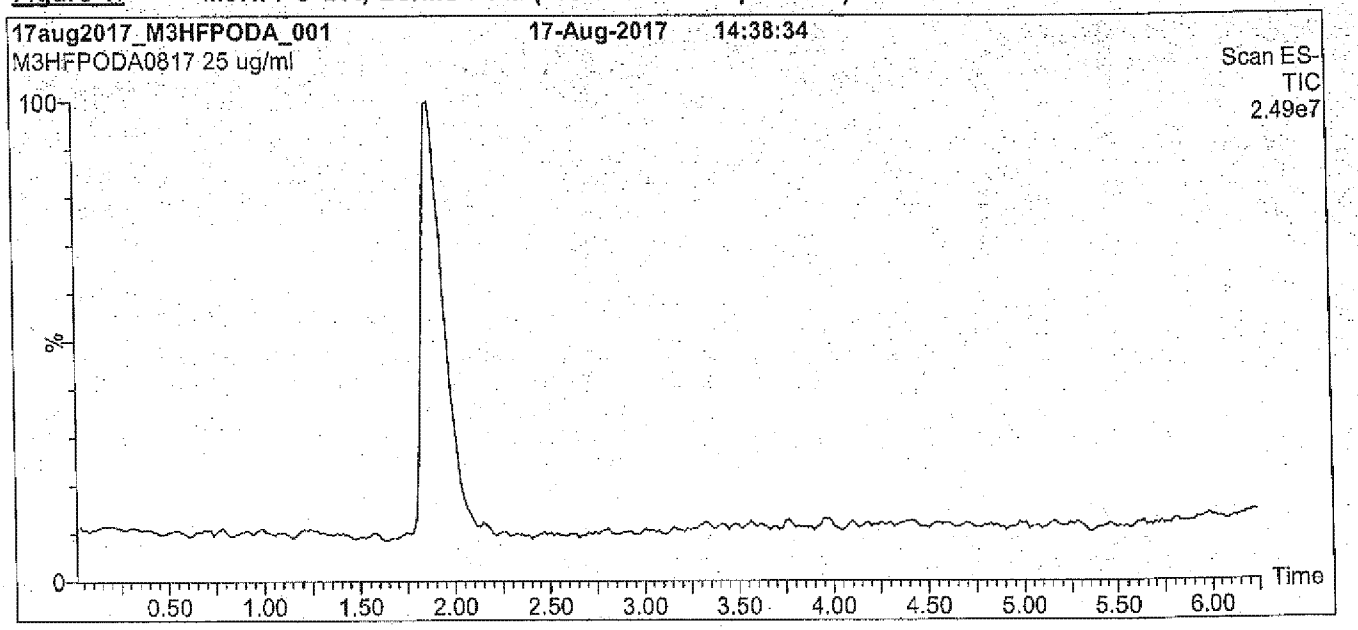

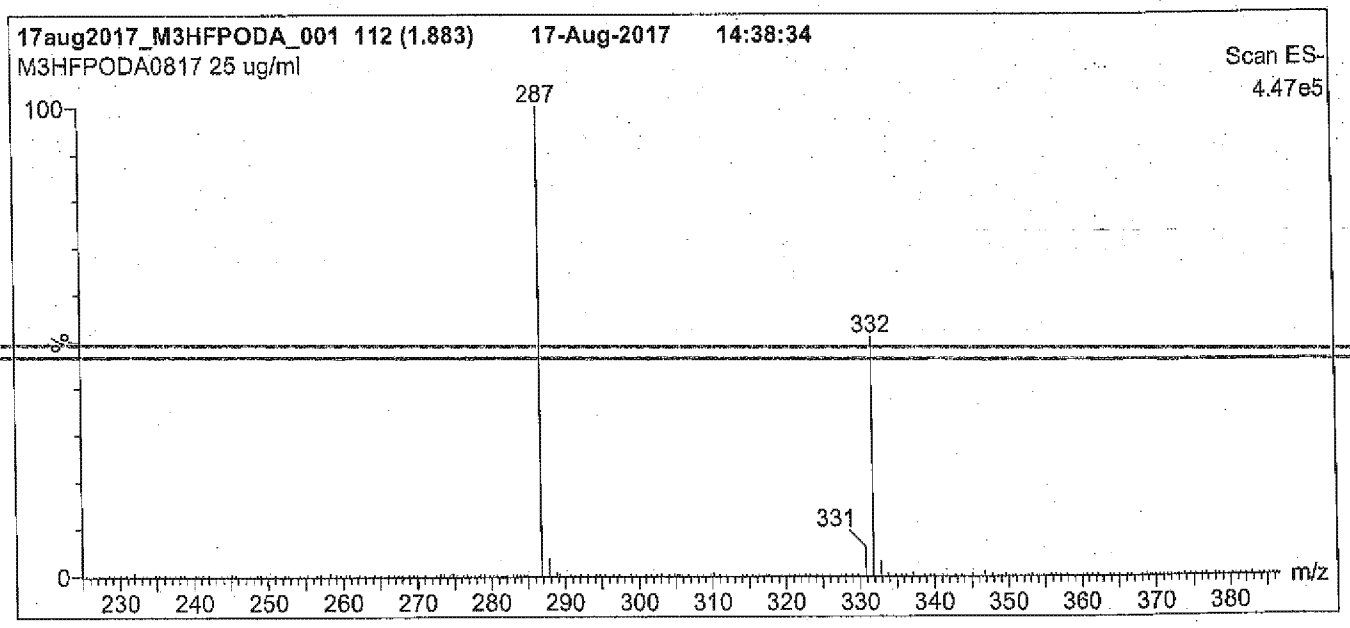

Conditions for Figure 1:

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MS: **Micromass Quattro *micro* API MS**

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% MeOH / 45% H_2O with 10 mM NH_4OAc buffer
Ramp to 90% organic over 7.5 min and hold for 1.5 min
before returning to initial conditions in 0.5 min.

Time: 10 min

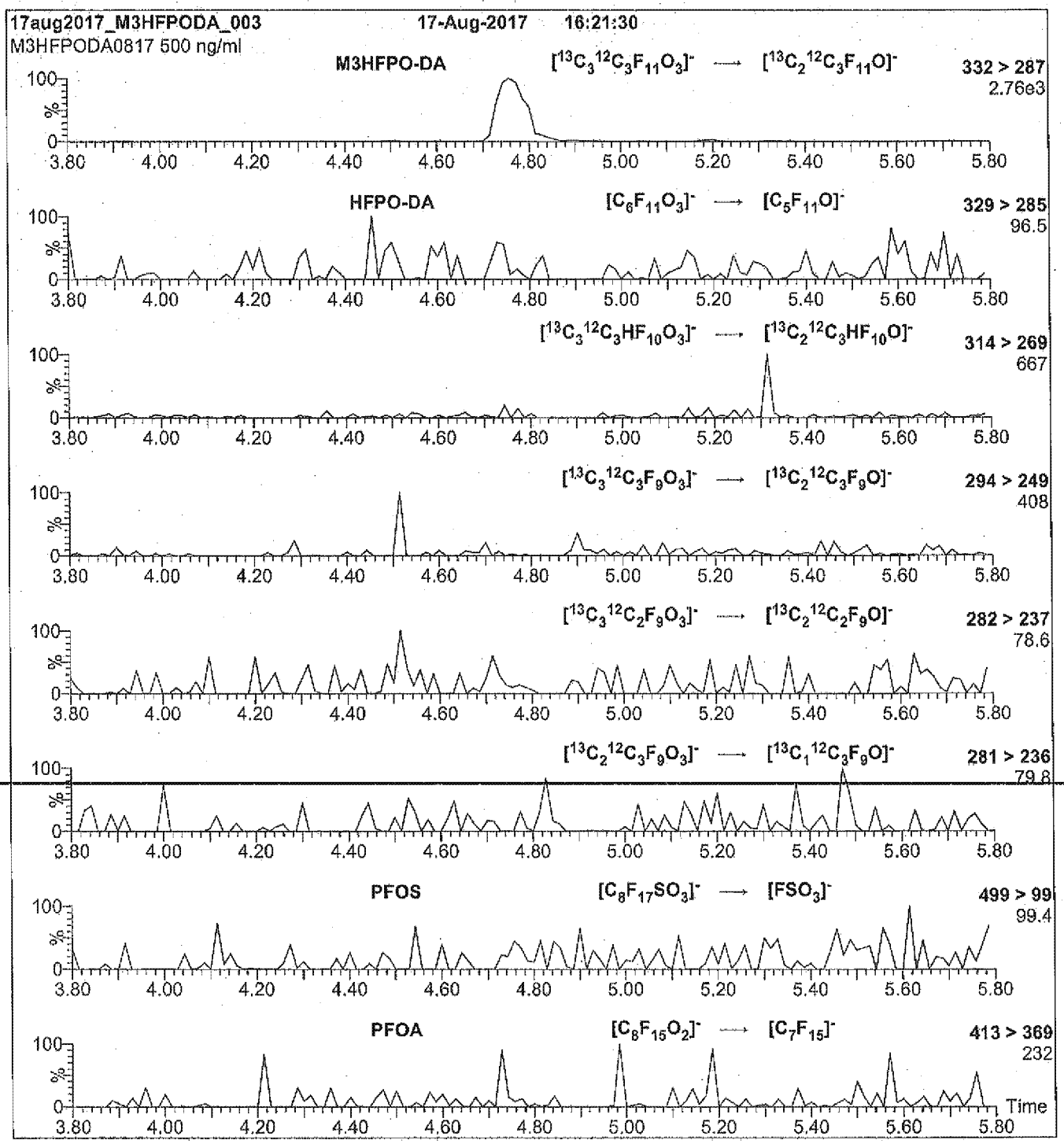
Flow: 300 µl/min

MS Parameters

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 750

Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml M3HFPO-DA)

Mobile phase: Isocratic 80% MeOH / 20% H_2O with 10 mM NH_4OAc buffer

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.24e-3
Collision Energy (eV) = 5

Reagent

HFPO I.S._00007

Preliminary Report

TestAmerica Denver
Internal Standard Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171212-65681.b\hfpo717L12074.d
Lims ID: HFPO IS 00007
Client ID:
Sample Type: CCV
Inject. Date: 12-Dec-2017 15:02:32 ALS Bottle#: 25 Worklist Smp#: 74
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: HFPO IS 00007
Misc. Info.: HFPO17L12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20171212-65681.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Dec-2017 15:48:38 Calib Date: 10-Oct-2017 09:58:07
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Column 1 : Det: F1:MRM
Process Host: XAWRK024

Averaged ICal Samples:

\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10026.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10027.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10028.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10029.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10030.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10031.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10032.d
\\ChromNA\Denver\ChromData\LC_LCMS7\20171010-63483.b\hfpo717J10033.d

Area Recoveries, Detector: F1:MRM

Compound	Average Standard	Lower Limit	Upper Limit	Sample	% Rec
* 2 13C3 HFPO-DA (IS)	731446	365723	1462892	740105	101.18

RT Recoveries

Compound	Average Standard	Lower Limit	Upper Limit	Sample	DLT(min.)	% Diff
* 2 13C3 HFPO-DA (IS)	0.880	0.380	1.380	1.056	-0.176	19.997

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.500 minutes of internal standard RT.
RT LOWER LIMIT = - 0.500 minutes of internal standard RT.

Reagent

HFPO-DA_00004

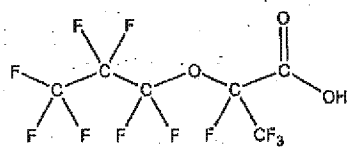
WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS DOCUMENTATION

PRODUCT CODE: HFPO-DA **LOT NUMBER:** HFPODA0717

COMPOUND: 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

STRUCTURE: **CAS #:** 13252-13-6



MOLECULAR FORMULA:	$C_6HF_{11}O_3$	**MOLECULAR WEIGHT:**	330.05
CONCENTRATION:	50 ± 2.5 µg/ml	**SOLVENT(S):**	Methanol
CHEMICAL PURITY:	>98%		
LAST TESTED: (mm/dd/yyyy)	07/13/2017		
EXPIRY DATE: (mm/dd/yyyy)	07/13/2020		
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place		

DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
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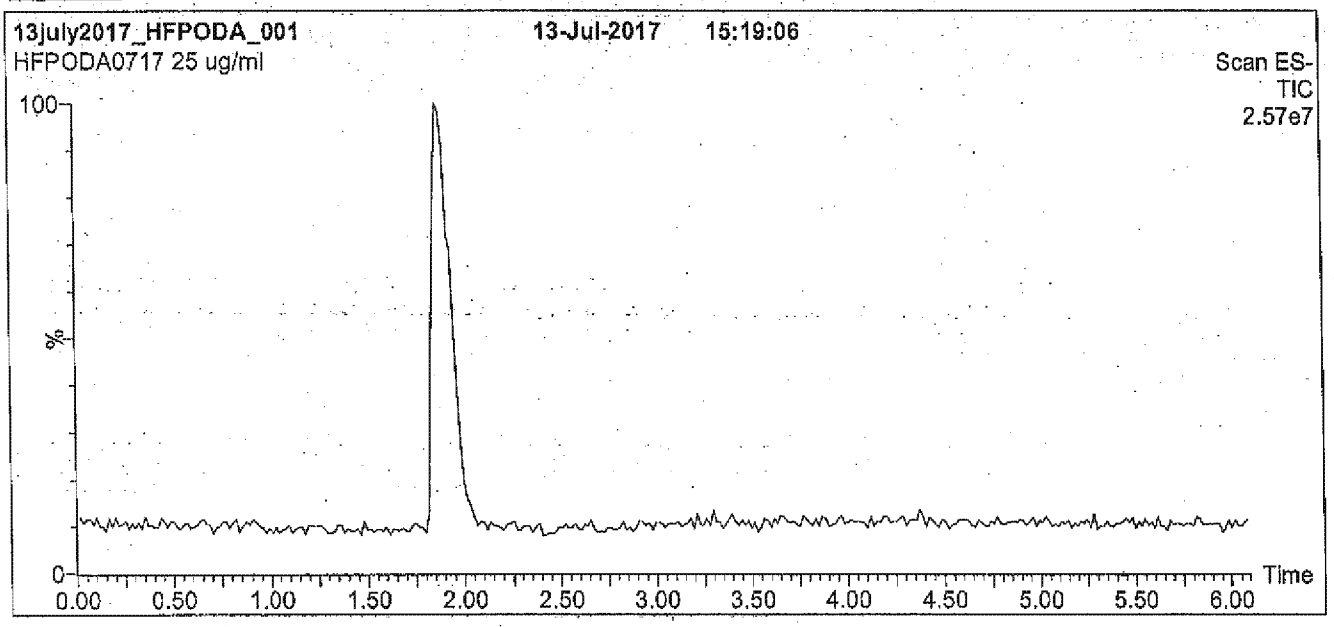
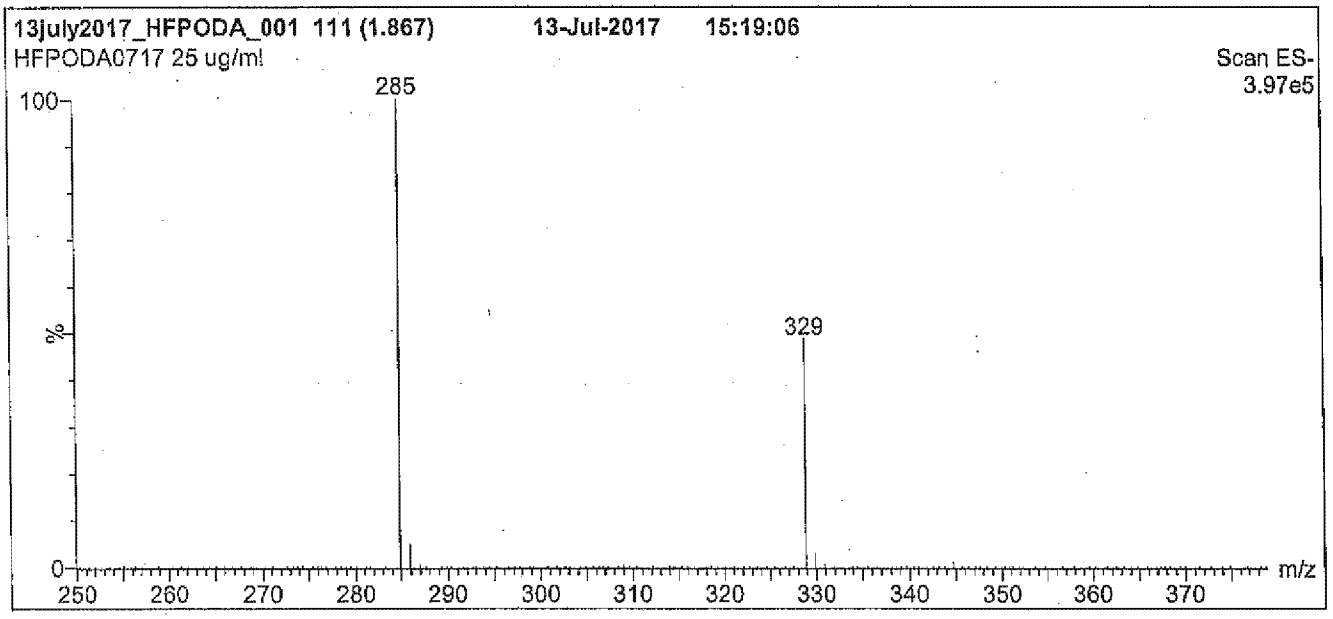
For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**





Conditions for Figure 1:

LC: **Waters Acquity Ultra Performance LC**
MS: **Micromass Quattro *micro* API MS**

Chromatographic Conditions

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 55% MeOH / 45% H_2O with 10 mM NH_4OAc buffer
Ramp to 90% organic over 7.5 min and hold for 1.5 min before returning to initial conditions in 0.5 min.

Time: 10 min

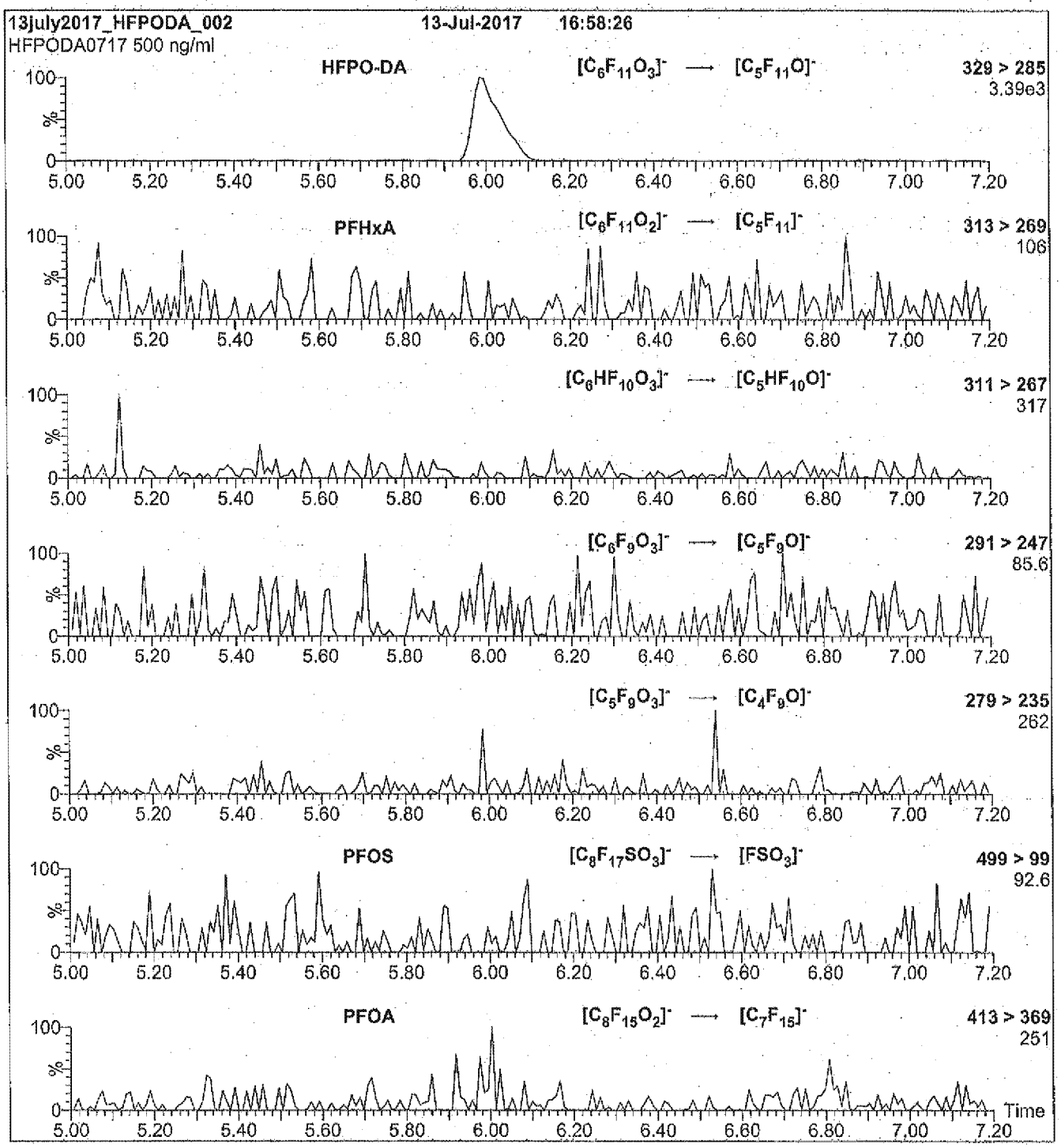
Flow: 300 µl/min

MS Parameters

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)
Capillary Voltage (kV) = 3.00
Cone Voltage (V) = 10.00
Cone Gas Flow (l/hr) = 100
Desolvation Gas Flow (l/hr) = 700

Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)



Conditions for Figure 2:

Injection: Direct loop injection
10 µl (500 ng/ml HFPO-DA)

Mobile phase: Isocratic 80% MeOH / 20% H_2O with 10 mM NH_4OAc buffer

Flow: 300 µl/min

MS Parameters

Collision Gas (mbar) = 3.20e-3
Collision Energy (eV) = 5

8321A_HFPO_Du

HFPO-DA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
FAY-D-5140MATTH-W1 -1-013018	280-105999-1	87
FAY-D-5240MATTH-W1 -1-013018	280-105999-2	87
FAY-D-5226MATTH-W1 -1-013018	280-105999-3	85
FAY-D-4992HERSY-W1 -1-013018	280-105999-4	83
FAY-D-4976HERSY-W1 -1-013018	280-105999-5	101
FAY-D-4850OLDSV-W1 -1-013118	280-105999-6	82
FAY-D-4781OLDSV-W1 -1-013118	280-105999-7	86
FAY-D-7560TABOR-W1 -1-013118	280-105999-8	92
FAY-D-7560TABOR-W1 -2-013118	280-105999-9	100
FAY-D-5140SNWBR-W1 -1-013118	280-105999-10	98
FAY-D-5010SNWBR-W1 -1-013118	280-105999-11	86
FAY-D-4900SNWBR-W1 -1-013118	280-105999-12	87
FAY-D-4863SNWBR-W1 -1-013118	280-105999-13	85
FAY-D-4839SNWBR-W1 -1-013118	280-105999-14	86
FAY-D-4809SNWBR-W1 -1-013118	280-105999-15	77
FAY-D-4830SNWBR-W1 -1-013118	280-105999-16	76
FAY-D-3612PNEBR-W1 -1-013118	280-105999-17	101
FAY-D-3612PNEBR-W1 -2-013118	280-105999-18	101
FAY-D-6883BUTLE-W1 -1-013118	280-105999-19	103
FAY-D-6900TABOR-W1 -1-013018	280-105999-20	99
FAY-D-5515MATTH-W1 -1-013018	280-105999-21	109
FAY-D-5455MATTH-W1 -1-013018	280-105999-22	86
FAY-D-5459MATTH-W1 -1-013018	280-105999-23	107
FAY-D-5505MATTH-W1 -1-013018	280-105999-24	58

	QC LIMITS
HFPODA = 13C3 HFPO-DA	50-200

Column to be used to flag recovery values

FORM II 8321A

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
FAY-D-5515MATTH-W1 -1-013018D	280-105999-25	61
FAY-D-2808CHIMB-W1 -1-012918	280-105999-26	114
FAY-D-FB-012918	280-105999-27	125
FAY-D-3067NC20H-W1 -1-013118	280-105999-28	95
FAY-D-FB-013118	280-105999-29	108
FAY-D-2713NC20H-W1 -1-013118	280-105999-30	108
FAY-D-3065NC20H-W1 -1-013118	280-105999-31	101
FAY-D-2713NC20H-W1 -2-013118	280-105999-32	59
FAY-D-3431DANDE-W1 -1-013118	280-105999-33	60
FAY-D-3417DANDE-W1 -1-013118	280-105999-34	82
FAY-D-3203LUGSL-W1 -1-013118	280-105999-35	59
FAY-D-6859BUTLE-W1 -1-013118	280-105999-36	73
FAY-D-3834HEART-W1 -1-013118	280-105999-37	63
FAY-D-3834HEART-W1 -2-013118	280-105999-38	65
FAY-D-3845HEART-W1 -1-013118	280-105999-39	65
FAY-D-3845HEART-W1 -2-013118	280-105999-40	67
FAY-D-3909HEART-W1 -1-013118	280-105999-41	65
FAY-D-3909HEART-W1 -2-013118	280-105999-42	68
FAY-D-3911HEART-W1 -1-013118	280-105999-43	67
FAY-D-3930HEART-W1 -1-013118	280-105999-44	67
FAY-D-3930HEART-W1 -2-013118	280-105999-45	69
FAY-D-3933HEART-W1 -1-013118	280-105999-46	66
FAY-D-3933HEART-W1 -2-013118	280-105999-47	68
FAY-D-3754HEART-W1 -1-013018	280-105999-48	64
FAY-D-3808HEART-W1 -1-013018	280-105999-49	67

	QC LIMITS
HFPODA = 13C3 HFPO-DA	50-200

Column to be used to flag recovery values

FORM II 8321A

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
FAY-D-3808HEART-W1 -2-013018	280-105999-50	72
FAY-D-3775HEART-W1 -1-013018	280-105999-51	69
FAY-D-3825HEART-W1 -1-013118	280-105999-52	69
FAY-D-3825HEART-W1 -2-013018	280-105999-53	71
FAY-D-3934HEART-W1 -1-013118	280-105999-54	72
FAY-D-3926HEART-W1 -1-013118	280-105999-55	71
FAY-D-3926HEART-W1 -2-013118	280-105999-56	73
FAY-D-3513TRERG-W1 -1-013118	280-105999-57	67
FAY-D-3513TRERG-W1 -2-013118	280-105999-58	82
	MB 280-404157/1-A	112
	MB 280-404355/1-A	96
	MB 280-404356/1-A	95
	MB 280-404517/1-A	65
	MB 280-404518/1-A	74
	LCS 280-404157/2-A	112
	LCS 280-404355/2-A	92
	LCS 280-404356/2-A	102
	LCS 280-404517/2-A	62
	LCS 280-404518/2-A	74
	LCSD 280-404157/3-A	119
	LCSD 280-404355/3-A	105
	LCSD 280-404356/3-A	101
	LCSD 280-404517/3-A	66
	LCSD 280-404518/3-A	71

	QC LIMITS
HFPODA = 13C3 HFPO-DA	50-200

Column to be used to flag recovery values

FORM II 8321A

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
	LLCS 280-404157/4-A	119
	LLCS 280-404355/4-A	92
	LLCS 280-404356/4-A	100
	LLCS 280-404517/4-A	63
	LLCS 280-404518/4-A	73
FAY-D-5515MATTH-W1 -1-013018 MS	280-105999-21 MS	93
FAY-D-5515MATTH-W1 -1-013018 DU	280-105999-21 DU	94
	DLCK 280-404345/13	104

	QC LIMITS
HFPODA = 13C3 HFPO-DA	50-200

Column to be used to flag recovery values

FORM II 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B08047.d

Lab ID: LCS 280-404157/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.160	80	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B09015.d

Lab ID: LCS 280-404355/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.227	114	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B09044.d

Lab ID: LCS 280-404356/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.235	118	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12038.d

Lab ID: LCS 280-404517/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.201	101	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12065.d

Lab ID: LCS 280-404518/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.203	102	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B08048.d

Lab ID: LCSD 280-404157/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.160	80	0	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B09016.d

Lab ID: LCSD 280-404355/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.212	106	7	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B09045.d

Lab ID: LCSD 280-404356/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.194	97	19	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12039.d

Lab ID: LCSD 280-404517/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.205	102	2	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12066.d

Lab ID: LCSD 280-404518/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
HFPO-DA	0.200	0.212	106	4	20	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B08049.d

Lab ID: LLCS 280-404157/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0148	74	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B09017.d

Lab ID: LLCS 280-404355/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0203	101	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B09046.d

Lab ID: LLCS 280-404356/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0238	119	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12040.d

Lab ID: LLCS 280-404517/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0228	114	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B12067.d

Lab ID: LLCS 280-404518/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0223	111	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B09061.d

Lab ID: 280-105999-21 MS Client ID: FAY-D-5515MATTH-W1-1-013018 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
HFPO-DA	0.181	0.018	0.244	124	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM III
LCMS DETECTION LIMIT CHECK STANDARD RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B08044.d

Lab ID: DLCK 280-404345/13 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	DLCK CONCENTRATION (ug/L)	DLCK % REC	QC LIMITS REC	#
HFPO-DA	0.250	<0.50	90	70-130	

Column to be used to flag recovery and RPD values

FORM III 8321A

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab File ID: hfpo718B08046.d Lab Sample ID: MB 280-404157/1-A

Matrix: Water Date Extracted: 02/07/2018 10:33

Instrument ID: LC_LCMS7 Date Analyzed: 02/08/2018 13:44

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404157/2-A	hfpo718B08047.d	02/08/2018 13:47
	LCSD 280-404157/3-A	hfpo718B08048.d	02/08/2018 13:50
	LLCS 280-404157/4-A	hfpo718B08049.d	02/08/2018 13:54
FAY-D-2808CHIMB-W1-1-012918	280-105999-26	hfpo718B08050.d	02/08/2018 13:57
FAY-D-FB-012918	280-105999-27	hfpo718B08051.d	02/08/2018 14:00

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab File ID: hfpo718B09014.d Lab Sample ID: MB 280-404355/1-A

Matrix: Water Date Extracted: 02/08/2018 17:57

Instrument ID: LC_LCMS7 Date Analyzed: 02/09/2018 09:21

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404355/2-A	hfpo718B09015.d	02/09/2018 09:24
	LCSD 280-404355/3-A	hfpo718B09016.d	02/09/2018 09:28
	LLCS 280-404355/4-A	hfpo718B09017.d	02/09/2018 09:31
FAY-D-5140MATTH-W1-1-013018	280-105999-1	hfpo718B09019.d	02/09/2018 09:37
FAY-D-5240MATTH-W1-1-013018	280-105999-2	hfpo718B09020.d	02/09/2018 09:41
FAY-D-5226MATTH-W1-1-013018	280-105999-3	hfpo718B09021.d	02/09/2018 09:44
FAY-D-4992HERSY-W1-1-013018	280-105999-4	hfpo718B09022.d	02/09/2018 09:47
FAY-D-4976HERSY-W1-1-013018	280-105999-5	hfpo718B09023.d	02/09/2018 09:50
FAY-D-4850OLDSV-W1-1-013118	280-105999-6	hfpo718B09025.d	02/09/2018 09:57
FAY-D-4781OLDSV-W1-1-013118	280-105999-7	hfpo718B09026.d	02/09/2018 10:00
FAY-D-7560TABOR-W1-1-013118	280-105999-8	hfpo718B09027.d	02/09/2018 10:03
FAY-D-7560TABOR-W1-2-013118	280-105999-9	hfpo718B09028.d	02/09/2018 10:07

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab File ID: hfpo718B09043.d Lab Sample ID: MB 280-404356/1-A

Matrix: Water Date Extracted: 02/08/2018 18:22

Instrument ID: LC_LCMS7 Date Analyzed: 02/09/2018 10:55

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404356/2-A	hfpo718B09044.d	02/09/2018 10:59
	LCSD 280-404356/3-A	hfpo718B09045.d	02/09/2018 11:02
	LLCS 280-404356/4-A	hfpo718B09046.d	02/09/2018 11:05
FAY-D-5140SNWBR-W1-1-013118	280-105999-10	hfpo718B09047.d	02/09/2018 11:09
FAY-D-5010SNWBR-W1-1-013118	280-105999-11	hfpo718B09048.d	02/09/2018 11:12
FAY-D-4900SNWBR-W1-1-013118	280-105999-12	hfpo718B09049.d	02/09/2018 11:15
FAY-D-4863SNWBR-W1-1-013118	280-105999-13	hfpo718B09050.d	02/09/2018 11:18
FAY-D-4839SNWBR-W1-1-013118	280-105999-14	hfpo718B09051.d	02/09/2018 11:22
FAY-D-4809SNWBR-W1-1-013118	280-105999-15	hfpo718B09052.d	02/09/2018 11:25
FAY-D-4830SNWBR-W1-1-013118	280-105999-16	hfpo718B09054.d	02/09/2018 11:31
FAY-D-3612PNEBR-W1-1-013118	280-105999-17	hfpo718B09055.d	02/09/2018 11:35
FAY-D-3612PNEBR-W1-2-013118	280-105999-18	hfpo718B09056.d	02/09/2018 11:38
FAY-D-6883BUTLE-W1-1-013118	280-105999-19	hfpo718B09057.d	02/09/2018 11:41
FAY-D-6900TABOR-W1-1-013018	280-105999-20	hfpo718B09058.d	02/09/2018 11:44
FAY-D-5515MATTH-W1-1-013018	280-105999-21	hfpo718B09059.d	02/09/2018 11:48
FAY-D-5515MATTH-W1-1-013018 DU	280-105999-21 DU	hfpo718B09060.d	02/09/2018 11:51
FAY-D-5515MATTH-W1-1-013018 MS	280-105999-21 MS	hfpo718B09061.d	02/09/2018 11:54
FAY-D-5455MATTH-W1-1-013018	280-105999-22	hfpo718B09062.d	02/09/2018 11:57
FAY-D-5459MATTH-W1-1-013018	280-105999-23	hfpo718B09063.d	02/09/2018 12:01
FAY-D-3067NC20H-W1-1-013118	280-105999-28	hfpo718B09066.d	02/09/2018 12:10
FAY-D-FB-013118	280-105999-29	hfpo718B09067.d	02/09/2018 12:14
FAY-D-2713NC20H-W1-1-013118	280-105999-30	hfpo718B09068.d	02/09/2018 12:17

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab File ID: hfpo718B09043.d Lab Sample ID: MB 280-404356/1-A

Matrix: Water Date Extracted: 02/08/2018 18:22

Instrument ID: LC_LCMS7 Date Analyzed: 02/09/2018 10:55

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FAY-D-3065NC20H-W1-1-013118	280-105999-31	hfpo718B09069.d	02/09/2018 12:20
FAY-D-3417DANDE-W1-1-013118	280-105999-34	hfpo718B09070.d	02/09/2018 12:23

FORM IV 8321A

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab File ID: hfpo718B12037.d Lab Sample ID: MB 280-404517/1-A

Matrix: Water Date Extracted: 02/09/2018 20:33

Instrument ID: LC_LCMS7 Date Analyzed: 02/12/2018 12:14

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404517/2-A	hfpo718B12038.d	02/12/2018 12:17
	LCSD 280-404517/3-A	hfpo718B12039.d	02/12/2018 12:20
	LLCS 280-404517/4-A	hfpo718B12040.d	02/12/2018 12:24
FAY-D-5505MATTH-W1-1-013018	280-105999-24	hfpo718B12041.d	02/12/2018 12:27
FAY-D-5515MATTH-W1-1-013018D	280-105999-25	hfpo718B12042.d	02/12/2018 12:30
FAY-D-2713NC20H-W1-2-013118	280-105999-32	hfpo718B12043.d	02/12/2018 12:33
FAY-D-3431DANDE-W1-1-013118	280-105999-33	hfpo718B12044.d	02/12/2018 12:37
FAY-D-3203LUGSL-W1-1-013118	280-105999-35	hfpo718B12045.d	02/12/2018 12:40
FAY-D-6859BUTLE-W1-1-013118	280-105999-36	hfpo718B12046.d	02/12/2018 12:43
FAY-D-3834HEART-W1-1-013118	280-105999-37	hfpo718B12048.d	02/12/2018 12:50
FAY-D-3834HEART-W1-2-013118	280-105999-38	hfpo718B12049.d	02/12/2018 12:53
FAY-D-3845HEART-W1-1-013118	280-105999-39	hfpo718B12050.d	02/12/2018 12:56
FAY-D-3845HEART-W1-2-013118	280-105999-40	hfpo718B12051.d	02/12/2018 12:59
FAY-D-3909HEART-W1-1-013118	280-105999-41	hfpo718B12052.d	02/12/2018 13:03
FAY-D-3909HEART-W1-2-013118	280-105999-42	hfpo718B12053.d	02/12/2018 13:06
FAY-D-3911HEART-W1-1-013118	280-105999-43	hfpo718B12054.d	02/12/2018 13:09
FAY-D-3930HEART-W1-1-013118	280-105999-44	hfpo718B12055.d	02/12/2018 13:12
FAY-D-3930HEART-W1-2-013118	280-105999-45	hfpo718B12056.d	02/12/2018 13:16
FAY-D-3933HEART-W1-1-013118	280-105999-46	hfpo718B12057.d	02/12/2018 13:19
FAY-D-3933HEART-W1-2-013118	280-105999-47	hfpo718B12059.d	02/12/2018 13:25
FAY-D-3754HEART-W1-1-013018	280-105999-48	hfpo718B12060.d	02/12/2018 13:29
FAY-D-3808HEART-W1-1-013018	280-105999-49	hfpo718B12061.d	02/12/2018 13:32

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab File ID: hfpo718B12037.d Lab Sample ID: MB 280-404517/1-A

Matrix: Water Date Extracted: 02/09/2018 20:33

Instrument ID: LC_LCMS7 Date Analyzed: 02/12/2018 12:14

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
FAY-D-3808HEART-W1-2-013018	280-105999-50	hfpo718B12062.d	02/12/2018 13:35

FORM IV 8321A

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab File ID: hfpo718B12064.d Lab Sample ID: MB 280-404518/1-A

Matrix: Water Date Extracted: 02/09/2018 20:54

Instrument ID: LC_LCMS7 Date Analyzed: 02/12/2018 13:42

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-404518/2-A	hfpo718B12065.d	02/12/2018 13:45
	LCSD 280-404518/3-A	hfpo718B12066.d	02/12/2018 13:48
	LLCS 280-404518/4-A	hfpo718B12067.d	02/12/2018 13:52
FAY-D-3775HEART-W1-1-013018	280-105999-51	hfpo718B12072.d	02/12/2018 14:08
FAY-D-3825HEART-W1-1-013118	280-105999-52	hfpo718B12073.d	02/12/2018 14:11
FAY-D-3825HEART-W1-2-013018	280-105999-53	hfpo718B12075.d	02/12/2018 14:18
FAY-D-3934HEART-W1-1-013118	280-105999-54	hfpo718B12076.d	02/12/2018 14:21
FAY-D-3926HEART-W1-1-013118	280-105999-55	hfpo718B12077.d	02/12/2018 14:24
FAY-D-3926HEART-W1-2-013118	280-105999-56	hfpo718B12078.d	02/12/2018 14:28
FAY-D-3513TRERG-W1-1-013118	280-105999-57	hfpo718B12079.d	02/12/2018 14:31
FAY-D-3513TRERG-W1-2-013118	280-105999-58	hfpo718B12080.d	02/12/2018 14:34

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5140MATTH-W1-1-013018
Lab Sample ID: 280-105999-1
Matrix: Water
Lab File ID: hfpo718B09019.d
Analysis Method: 8321A
Date Collected: 01/30/2018 08:56
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 262.4(mL)
Date Analyzed: 02/09/2018 09:37
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.081		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	87		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09019.d
Lims ID: 280-105999-A-1-A
Client ID: FAY-D-5140MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:37:47 ALS Bottle#: 17 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-1-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:13

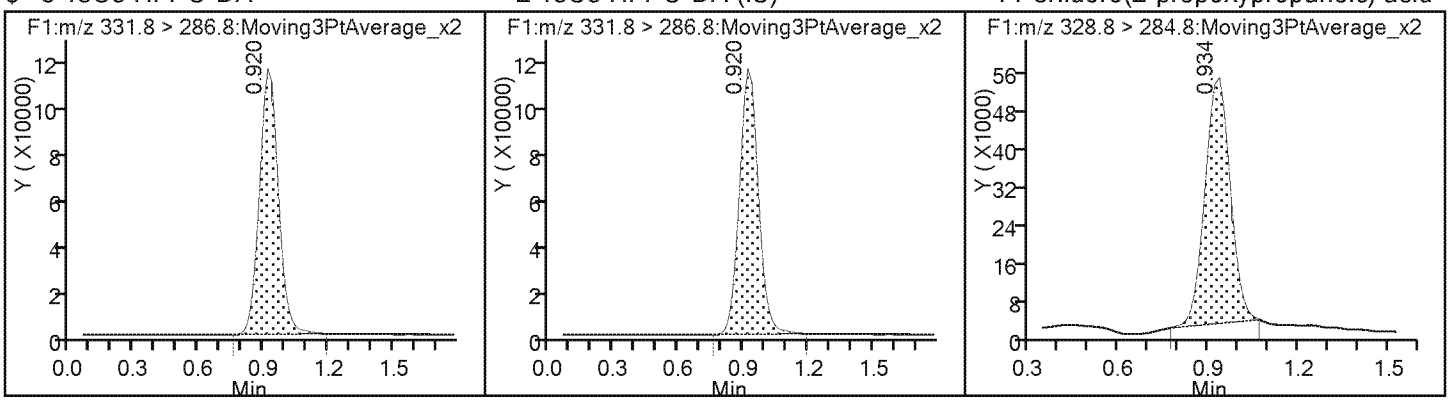
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	646645	8.66	1189	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		646645	10.0	1189	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	293492	4.23	43.0	

Report Date: 09-Feb-2018 12:02:07 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09019.d				
Injection Date:	09-Feb-2018 09:37:47	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-1-A	Lab Sample ID:	280-105999-1		
Client ID:	FAY-D-5140MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	17	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09019.d
Lims ID: 280-105999-A-1-A
Client ID: FAY-D-5140MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:37:47 ALS Bottle#: 17 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-1-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.66	86.61

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5240MATTH-W1-1-013018
Lab Sample ID: 280-105999-2
Matrix: Water
Lab File ID: hfpo718B09020.d
Analysis Method: 8321A
Date Collected: 01/30/2018 09:46
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 279.8(mL)
Date Analyzed: 02/09/2018 09:41
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.031		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	87		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09020.d
Lims ID: 280-105999-C-2-A
Client ID: FAY-D-5240MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:41:02 ALS Bottle#: 18 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-2-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:15

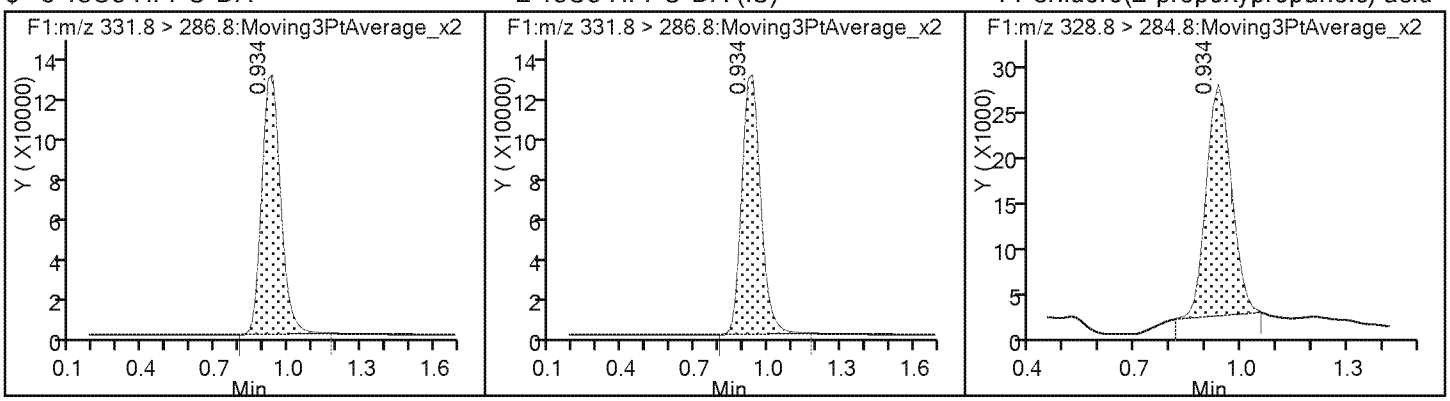
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	649466	8.70	1247	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		649466	10.0	1247	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	122930	1.75	21.5	

Report Date: 09-Feb-2018 12:02:08 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09020.d				
Injection Date:	09-Feb-2018 09:41:02	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-2-A	Lab Sample ID:	280-105999-2		
Client ID:	FAY-D-5240MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	18	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09020.d
Lims ID: 280-105999-C-2-A
Client ID: FAY-D-5240MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:41:02 ALS Bottle#: 18 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-2-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.70	86.99

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5226MATTH-W1-1-013018
Lab Sample ID: 280-105999-3
Matrix: Water
Lab File ID: hfpo718B09021.d
Analysis Method: 8321A
Date Collected: 01/30/2018 09:50
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 271.5(mL)
Date Analyzed: 02/09/2018 09:44
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.053		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09021.d
Lims ID: 280-105999-D-3-A
Client ID: FAY-D-5226MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:44:17 ALS Bottle#: 19 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-3-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:26

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	635222	8.51	1240	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		635222	10.0	1240	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.934	1.056	-0.122	1.000	194957	2.85	25.9	M

QC Flag Legend

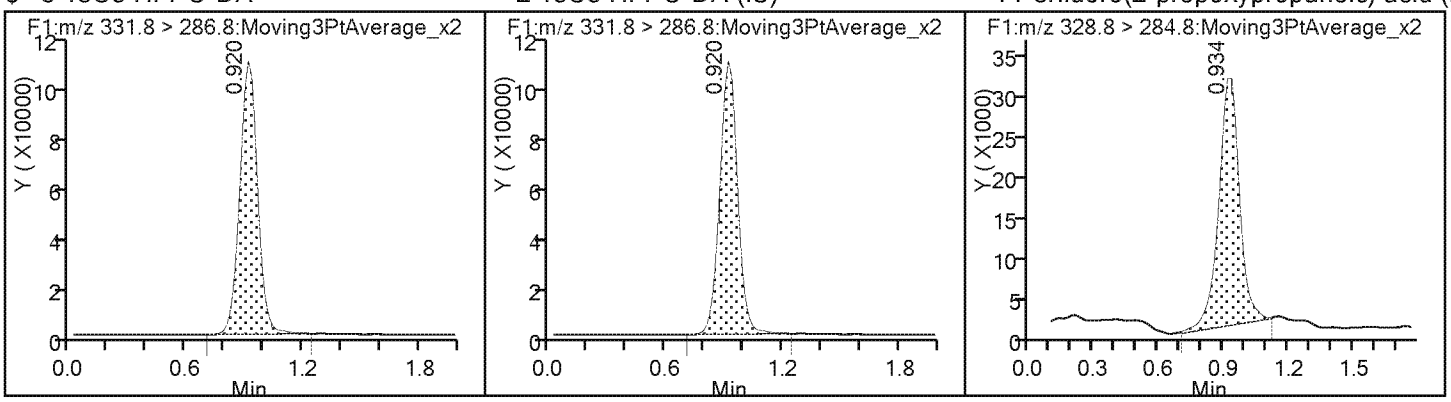
Review Flags
M - Manually Integrated

Report Date: 09-Feb-2018 12:02:09 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09021.d				
Injection Date:	09-Feb-2018 09:44:17	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-3-A	Lab Sample ID:	280-105999-3		
Client ID:	FAY-D-5226MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	19	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09021.d
Lims ID: 280-105999-D-3-A
Client ID: FAY-D-5226MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:44:17 ALS Bottle#: 19 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-3-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.51	85.08

Manual Integration/User Assign Peak Report

TestAmerica Denver

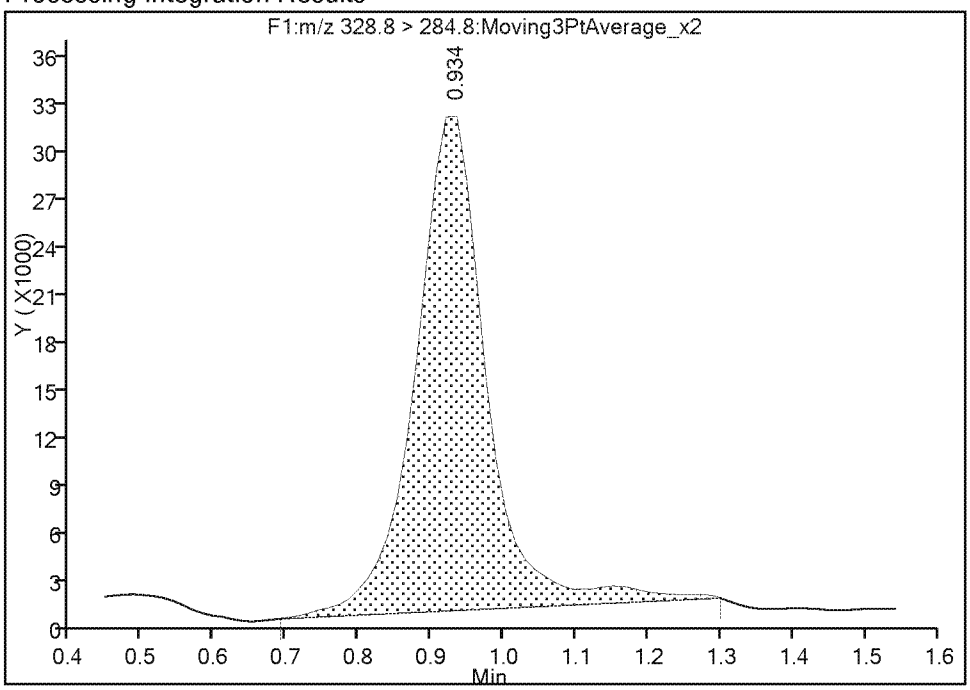
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09021.d				
Injection Date:	09-Feb-2018 09:44:17	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-3-A	Lab Sample ID:	280-105999-3		
Client ID:	FAY-D-5226MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	19	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

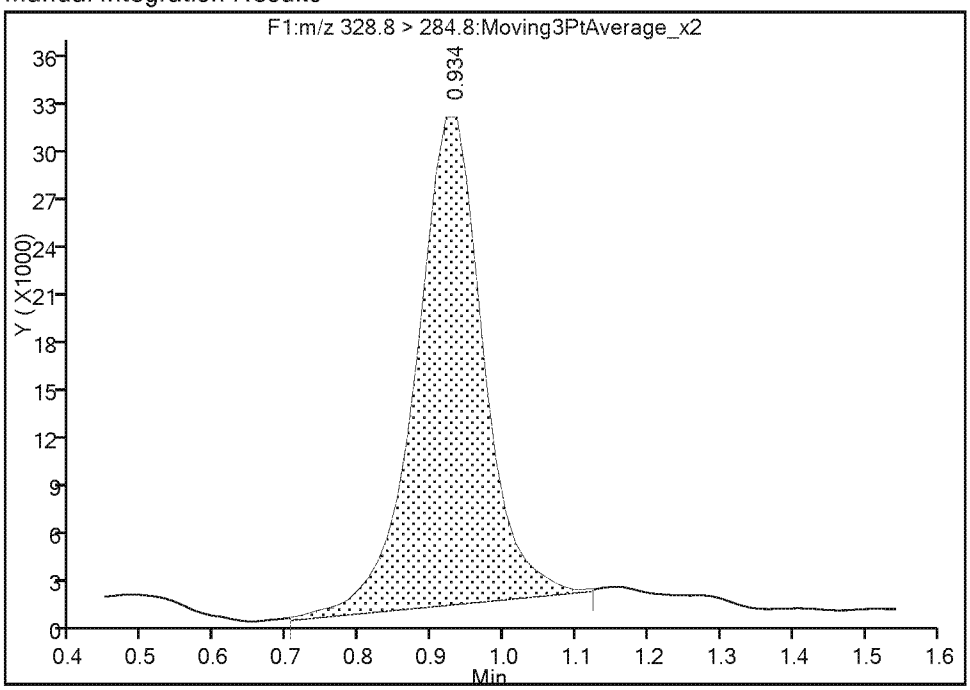
Processing Integration Results

RT: 0.93
Area: 209220
Amount: 3.062158
Amount Units: ug/l



Manual Integration Results

RT: 0.93
Area: 194957
Amount: 2.851088
Amount Units: ug/l



Reviewer: meyera, 09-Feb-2018 11:59:24

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4992HERSY-W1-1-013018
Lab Sample ID: 280-105999-4
Matrix: Water
Lab File ID: hfpo718B09022.d
Analysis Method: 8321A
Date Collected: 01/30/2018 11:05
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 264.2(mL)
Date Analyzed: 02/09/2018 09:47
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.079		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09022.d
Lims ID: 280-105999-B-4-A
Client ID: FAY-D-4992HERSY-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:47:32 ALS Bottle#: 20 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-4-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:28

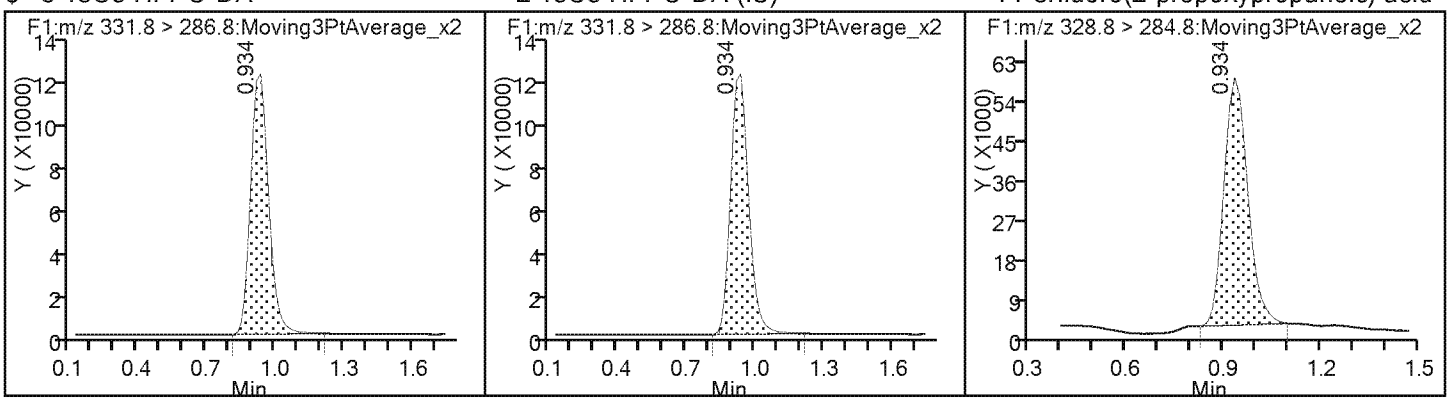
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	620902	8.32	1226	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		620902	10.0	1226	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	277317	4.16	50.2	

Report Date: 09-Feb-2018 12:02:10 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09022.d				
Injection Date:	09-Feb-2018 09:47:32	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-4-A	Lab Sample ID:	280-105999-4		
Client ID:	FAY-D-4992HERSY-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	20	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09022.d
Lims ID: 280-105999-B-4-A
Client ID: FAY-D-4992HERSY-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:47:32 ALS Bottle#: 20 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-4-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.32	83.16

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4976HERSY-W1-1-013018
Lab Sample ID: 280-105999-5
Matrix: Water
Lab File ID: hfpo718B09023.d
Analysis Method: 8321A
Date Collected: 01/30/2018 11:16
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 287.5(mL)
Date Analyzed: 02/09/2018 09:50
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.065		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09023.d
Lims ID: 280-105999-D-5-A
Client ID: FAY-D-4976HERSY-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:50:48 ALS Bottle#: 21 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-5-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:30

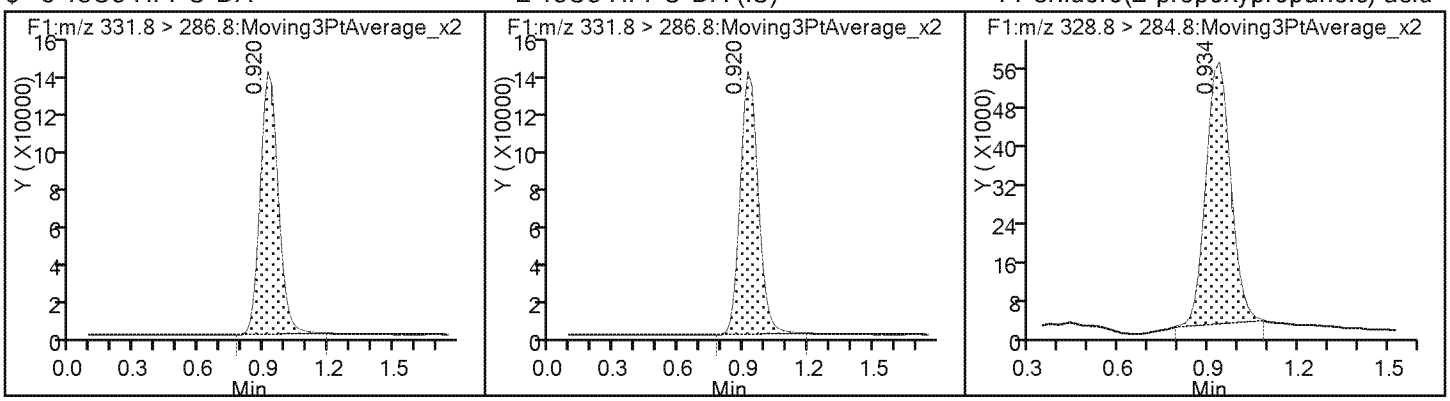
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	757283	10.1	1349	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		757283	10.0	1349	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	303439	3.73	43.2	

Report Date: 09-Feb-2018 12:02:11 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09023.d				
Injection Date:	09-Feb-2018 09:50:48	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-5-A	Lab Sample ID:	280-105999-5		
Client ID:	FAY-D-4976HERSY-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	21	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09023.d
Lims ID: 280-105999-D-5-A
Client ID: FAY-D-4976HERSY-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 09:50:48 ALS Bottle#: 21 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-5-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.1	101.43

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4850OLDSV-W1-1-013118
Lab Sample ID: 280-105999-6
Matrix: Water
Lab File ID: hfpo718B09025.d
Analysis Method: 8321A
Date Collected: 01/31/2018 10:07
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 287.9(mL)
Date Analyzed: 02/09/2018 09:57
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.026		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09025.d
Lims ID: 280-105999-A-6-A
Client ID: FAY-D-4850OLDSV-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 09:57:16 ALS Bottle#: 22 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-6-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:34

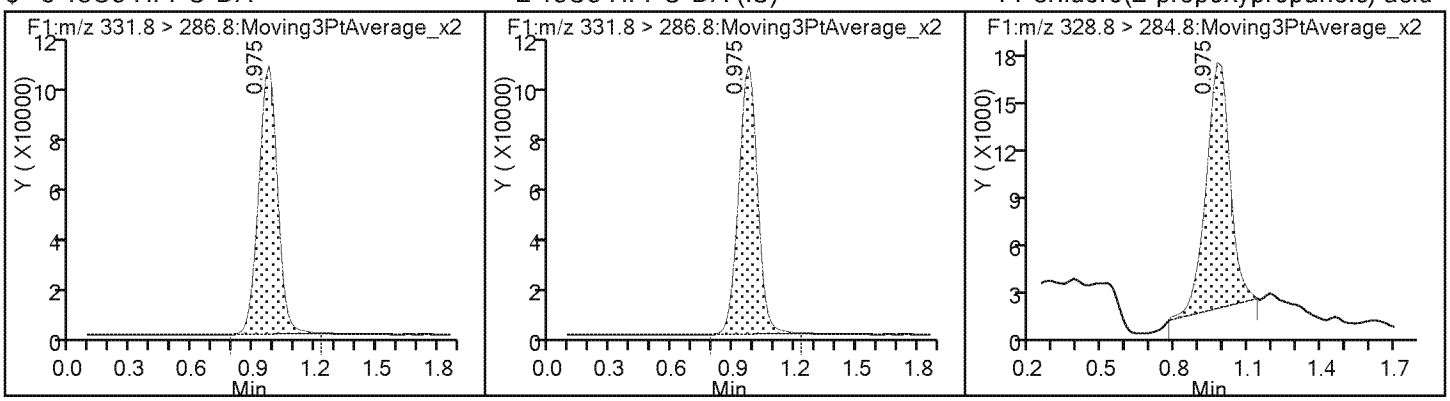
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	612686	8.21	1094	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		612686	10.0	1094	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.975	1.056	-0.081	1.000	101649	1.53	10.1	

Report Date: 09-Feb-2018 12:02:12 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09025.d				
Injection Date:	09-Feb-2018 09:57:16	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-6-A	Lab Sample ID:	280-105999-6		
Client ID:	FAY-D-4850OLDSV-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	22	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09025.d
Lims ID: 280-105999-A-6-A
Client ID: FAY-D-4850OLDSV-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 09:57:16 ALS Bottle#: 22 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-6-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.21	82.06

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4781OLDSV-W1-1-013118
Lab Sample ID: 280-105999-7
Matrix: Water
Lab File ID: hfpo718B09026.d
Analysis Method: 8321A
Date Collected: 01/31/2018 10:14
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 290.9(mL)
Date Analyzed: 02/09/2018 10:00
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.026		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	86		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09026.d
Lims ID: 280-105999-A-7-A
Client ID: FAY-D-4781OLDSV-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 10:00:31 ALS Bottle#: 23 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-7-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:36

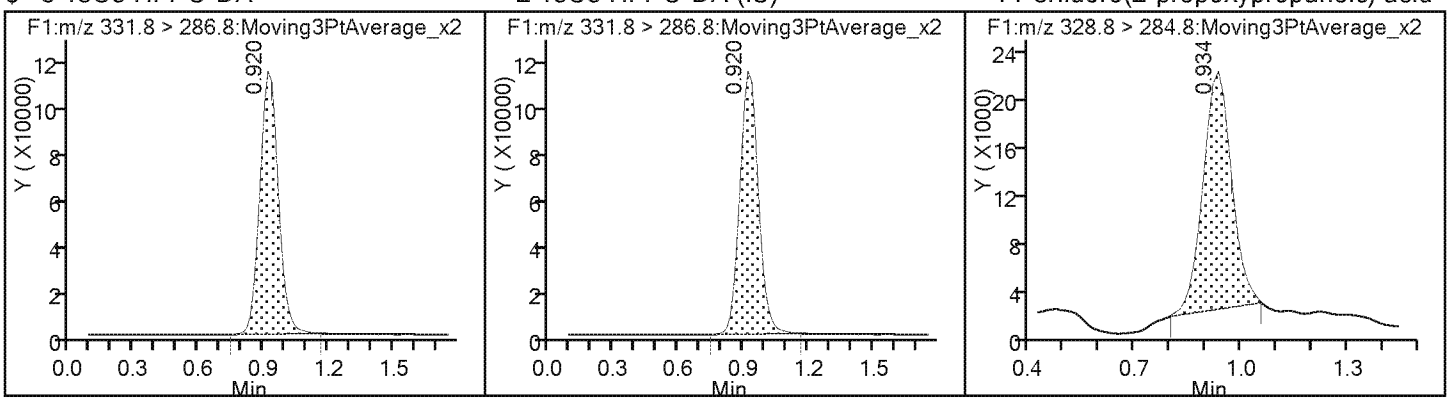
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	642764	8.61	1145	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		642764	10.0	1145	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	107466	1.54	16.6	

Report Date: 09-Feb-2018 12:02:13 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09026.d				
Injection Date:	09-Feb-2018 10:00:31	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-7-A	Lab Sample ID:	280-105999-7		
Client ID:	FAY-D-4781OLDSV-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	23	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09026.d
Lims ID: 280-105999-A-7-A
Client ID: FAY-D-4781OLDSV-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 10:00:31 ALS Bottle#: 23 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-7-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.61	86.09

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-7560TABOR-W1-1-013118
Lab Sample ID: 280-105999-8
Matrix: Water
Lab File ID: hfpo718B09027.d
Analysis Method: 8321A
Date Collected: 01/31/2018 14:28
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 296.5(mL)
Date Analyzed: 02/09/2018 10:03
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09027.d
Lims ID: 280-105999-C-8-A
Client ID: FAY-D-7560TABOR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 10:03:47 ALS Bottle#: 24 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-8-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:38

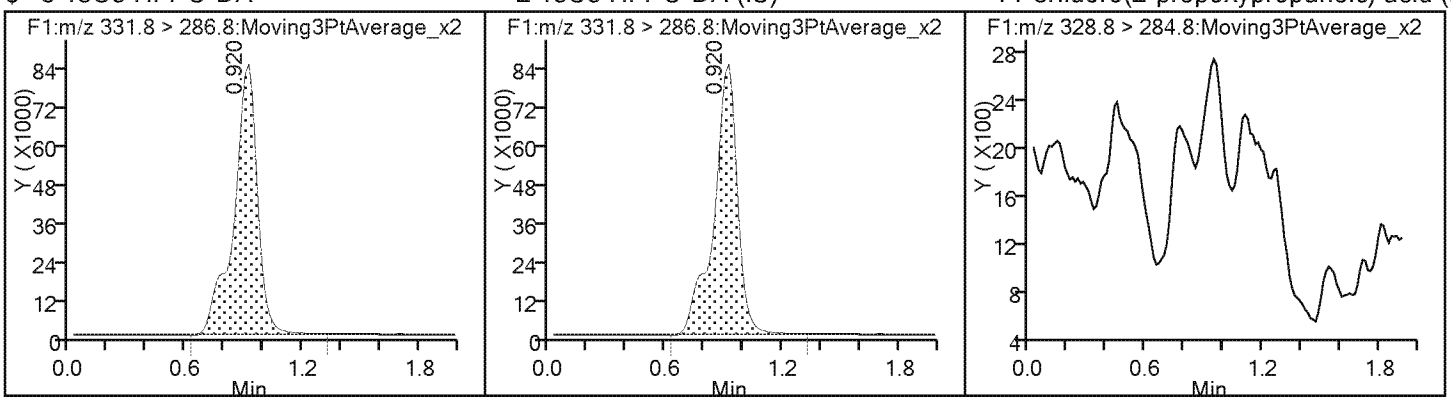
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	685157	9.18	1265	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		685157	10.0	1265	

Report Date: 09-Feb-2018 12:02:14 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09027.d				
Injection Date:	09-Feb-2018 10:03:47	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-8-A	Lab Sample ID:	280-105999-8		
Client ID:	FAY-D-7560TABOR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	24	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09027.d
Lims ID: 280-105999-C-8-A
Client ID: FAY-D-7560TABOR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 10:03:47 ALS Bottle#: 24 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-8-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.18	91.77

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-7560TABOR-W1-2-013118
Lab Sample ID: 280-105999-9
Matrix: Water
Lab File ID: hfpo718B09028.d
Analysis Method: 8321A
Date Collected: 01/31/2018 14:31
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 285.5(mL)
Date Analyzed: 02/09/2018 10:07
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09028.d
Lims ID: 280-105999-A-9-A
Client ID: FAY-D-7560TABOR-W1-2-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 10:07:01 ALS Bottle#: 25 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-9-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:40

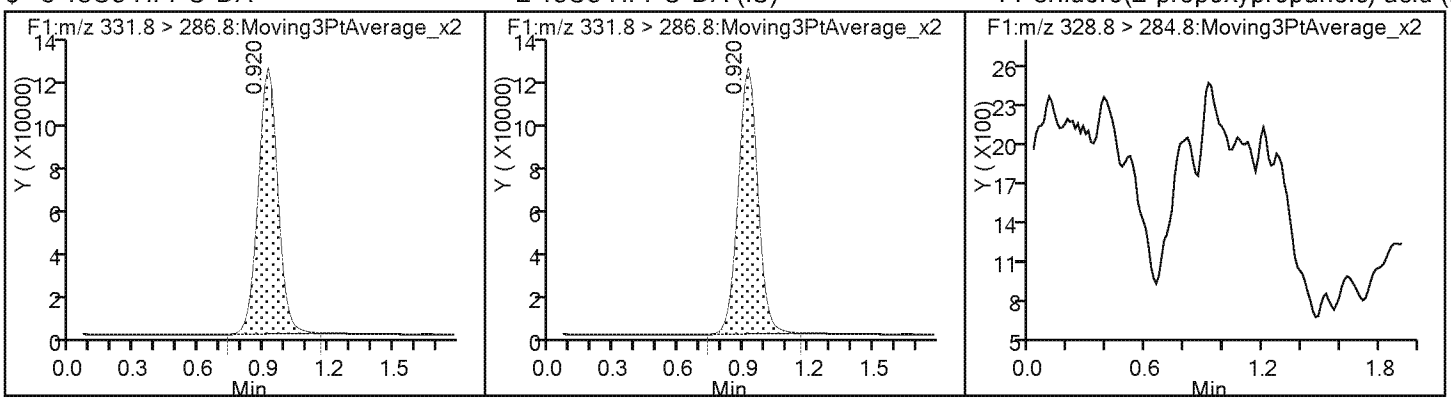
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	745209	9.98	930	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		745209	10.0	930	

Report Date: 09-Feb-2018 12:02:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09028.d				
Injection Date:	09-Feb-2018 10:07:01	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-9-A	Lab Sample ID:	280-105999-9		
Client ID:	FAY-D-7560TABOR-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	25	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09028.d
Lims ID: 280-105999-A-9-A
Client ID: FAY-D-7560TABOR-W1-2-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 10:07:01 ALS Bottle#: 25 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-9-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.98	99.81

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5140SNWBR-W1-1-013118
Lab Sample ID: 280-105999-10
Matrix: Water
Lab File ID: hfpo718B09047.d
Analysis Method: 8321A
Date Collected: 01/31/2018 14:59
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 275(mL)
Date Analyzed: 02/09/2018 11:09
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	98		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09047.d
Lims ID: 280-105999-A-10-A
Client ID: FAY-D-5140SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:09:01 ALS Bottle#: 42 Worklist Smp#: 37
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-10-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:05

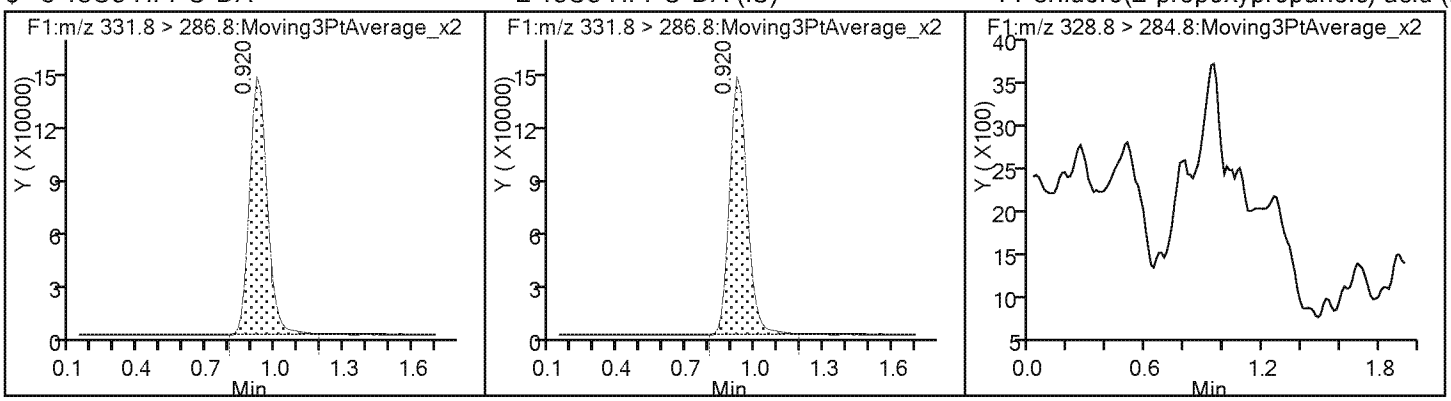
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	733470	9.82	1517	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		733470	10.0	1517	

Report Date: 09-Feb-2018 12:55:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09047.d				
Injection Date:	09-Feb-2018 11:09:01	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-10-A	Lab Sample ID:	280-105999-10		
Client ID:	FAY-D-5140SNWBR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	42	Worklist Smp#:	37
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09047.d
Lims ID: 280-105999-A-10-A
Client ID: FAY-D-5140SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:09:01 ALS Bottle#: 42 Worklist Smp#: 37
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-10-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.82	98.24

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5010SNWBR-W1-1-013118
Lab Sample ID: 280-105999-11
Matrix: Water
Lab File ID: hfpo718B09048.d
Analysis Method: 8321A
Date Collected: 01/31/2018 15:21
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 256.2(mL)
Date Analyzed: 02/09/2018 11:12
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.10		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	86		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09048.d
Lims ID: 280-105999-C-11-A
Client ID: FAY-D-5010SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:12:19 ALS Bottle#: 43 Worklist Smp#: 38
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-11-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:08

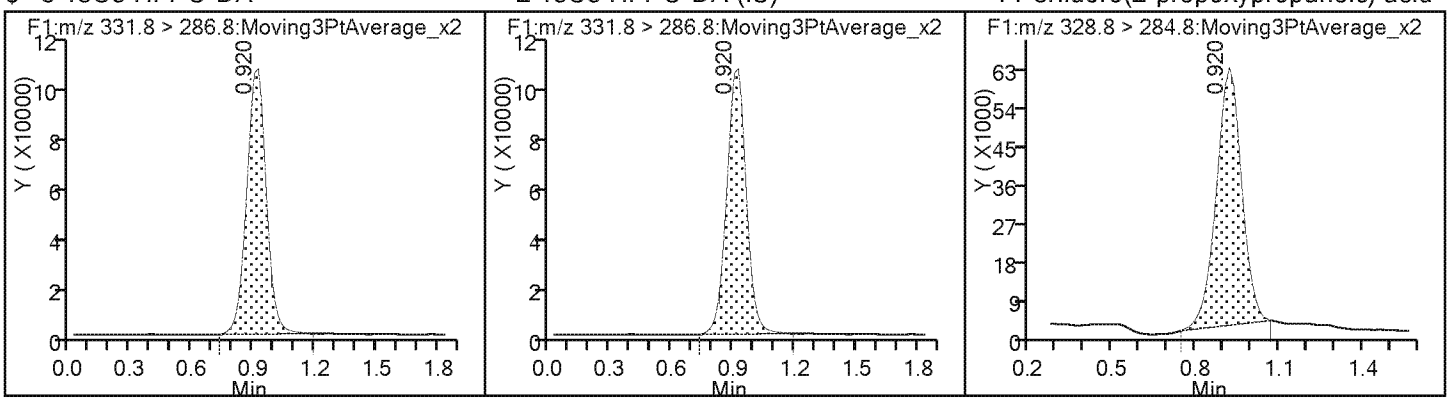
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	640341	8.58	1050	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		640341	10.0	1050	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	367105	5.36	40.6	

Report Date: 09-Feb-2018 12:56:00 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09048.d				
Injection Date:	09-Feb-2018 11:12:19	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-11-A	Lab Sample ID:	280-105999-11		
Client ID:	FAY-D-5010SNWBR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	43	Worklist Smp#:	38
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09048.d
Lims ID: 280-105999-C-11-A
Client ID: FAY-D-5010SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:12:19 ALS Bottle#: 43 Worklist Smp#: 38
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-11-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.58	85.77

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4900SNWBR-W1-1-013118
Lab Sample ID: 280-105999-12
Matrix: Water
Lab File ID: hfpo718B09049.d
Analysis Method: 8321A
Date Collected: 01/31/2018 15:50
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 283(mL)
Date Analyzed: 02/09/2018 11:15
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.14		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	87		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09049.d
Lims ID: 280-105999-A-12-A
Client ID: FAY-D-4900SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:15:35 ALS Bottle#: 44 Worklist Smp#: 39
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-12-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:10

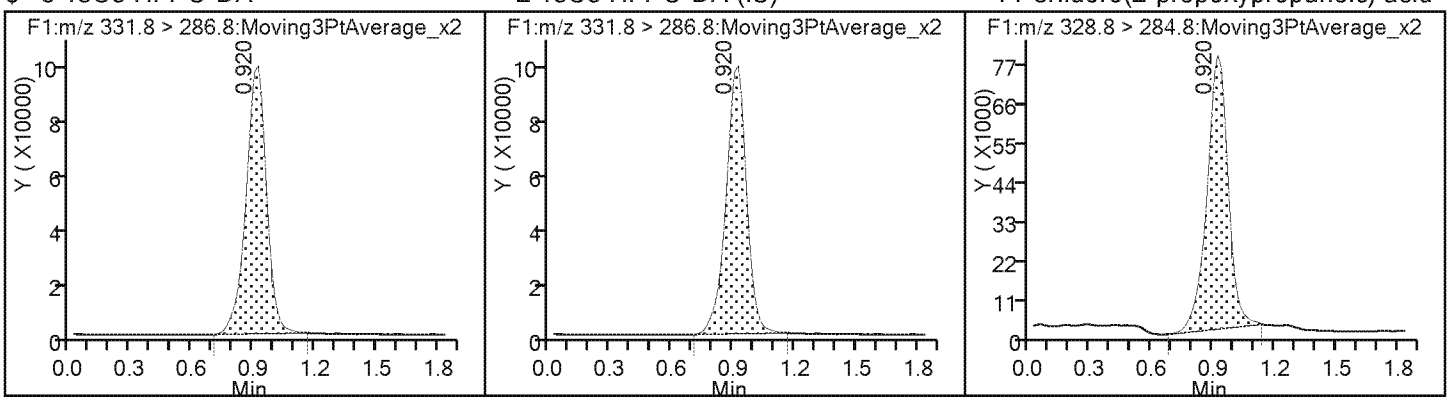
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	646831	8.66	987	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		646831	10.0	987	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	534023	7.73	49.2	

Report Date: 09-Feb-2018 12:56:00 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09049.d				
Injection Date:	09-Feb-2018 11:15:35	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-12-A	Lab Sample ID:	280-105999-12		
Client ID:	FAY-D-4900SNWBR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	44	Worklist Smp#:	39
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09049.d
Lims ID: 280-105999-A-12-A
Client ID: FAY-D-4900SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:15:35 ALS Bottle#: 44 Worklist Smp#: 39
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-12-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.66	86.64

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4863SNWBR-W1-1-013118
Lab Sample ID: 280-105999-13
Matrix: Water
Lab File ID: hfpo718B09050.d
Analysis Method: 8321A
Date Collected: 01/31/2018 16:02
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 289.8(mL)
Date Analyzed: 02/09/2018 11:18
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.087		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	85		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09050.d
Lims ID: 280-105999-A-13-A
Client ID: FAY-D-4863SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:18:52 ALS Bottle#: 45 Worklist Smp#: 40
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-13-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:12

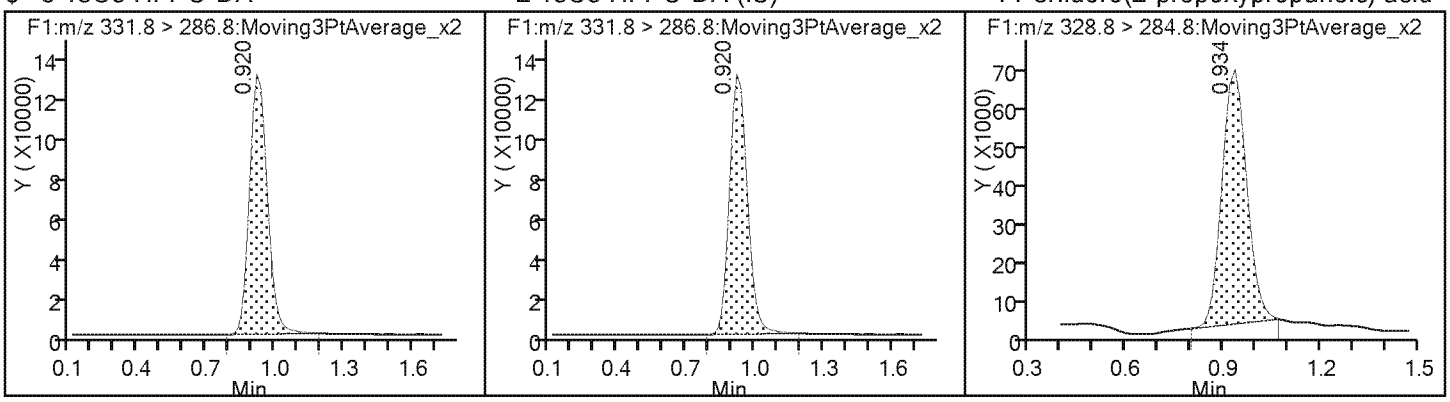
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	636673	8.53	1355	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		636673	10.0	1355	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	342297	5.02	41.0	

Report Date: 09-Feb-2018 12:56:01 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09050.d				
Injection Date:	09-Feb-2018 11:18:52	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-13-A	Lab Sample ID:	280-105999-13		
Client ID:	FAY-D-4863SNWBR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	45	Worklist Smp#:	40
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09050.d
Lims ID: 280-105999-A-13-A
Client ID: FAY-D-4863SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:18:52 ALS Bottle#: 45 Worklist Smp#: 40
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-13-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.53	85.28

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4839SNWBR-W1-1-013118
Lab Sample ID: 280-105999-14
Matrix: Water
Lab File ID: hfpo718B09051.d
Analysis Method: 8321A
Date Collected: 01/31/2018 16:17
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 278.7(mL)
Date Analyzed: 02/09/2018 11:22
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.18		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	86		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09051.d
Lims ID: 280-105999-A-14-A
Client ID: FAY-D-4839SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:22:09 ALS Bottle#: 46 Worklist Smp#: 41
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-14-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:14

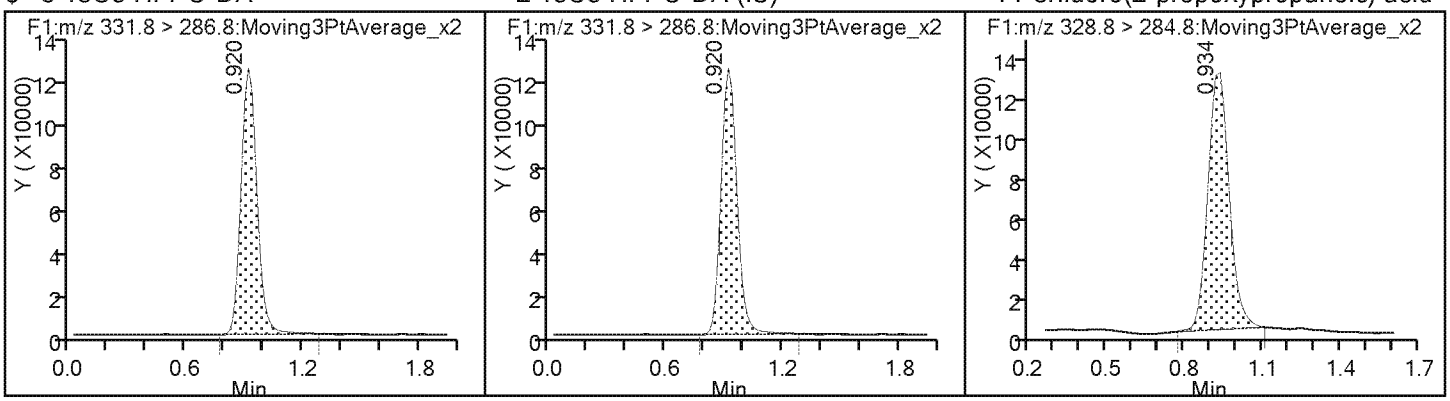
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	645033	8.64	1467	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		645033	10.0	1467	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	678171	9.85	89.3	

Report Date: 09-Feb-2018 12:56:01 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09051.d				
Injection Date:	09-Feb-2018 11:22:09	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-14-A	Lab Sample ID:	280-105999-14		
Client ID:	FAY-D-4839SNWBR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	46	Worklist Smp#:	41
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09051.d
Lims ID: 280-105999-A-14-A
Client ID: FAY-D-4839SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:22:09 ALS Bottle#: 46 Worklist Smp#: 41
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-14-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.64	86.40

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4809SNWBR-W1-1-013118
Lab Sample ID: 280-105999-15
Matrix: Water
Lab File ID: hfpo718B09052.d
Analysis Method: 8321A
Date Collected: 01/31/2018 16:19
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 280.7(mL)
Date Analyzed: 02/09/2018 11:25
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.17		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	77		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09052.d
Lims ID: 280-105999-B-15-A
Client ID: FAY-D-4809SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:25:26 ALS Bottle#: 47 Worklist Smp#: 42
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-15-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:16

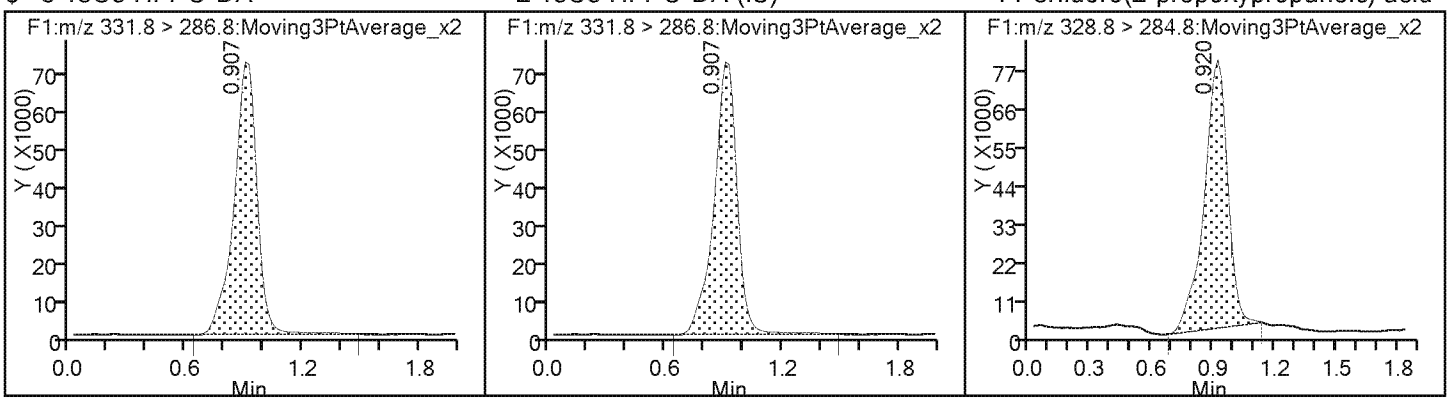
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	574433	7.69	1187	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		574433	10.0	1187	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	596586	9.73	50.1	

Report Date: 09-Feb-2018 12:56:02 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09052.d				
Injection Date:	09-Feb-2018 11:25:26	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-15-A	Lab Sample ID:	280-105999-15		
Client ID:	FAY-D-4809SNWBR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	47	Worklist Smp#:	42
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09052.d
Lims ID: 280-105999-B-15-A
Client ID: FAY-D-4809SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:25:26 ALS Bottle#: 47 Worklist Smp#: 42
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-15-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.69	76.94

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-4830SNWBR-W1-1-013118
Lab Sample ID: 280-105999-16
Matrix: Water
Lab File ID: hfpo718B09054.d
Analysis Method: 8321A
Date Collected: 01/31/2018 16:37
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 279.2(mL)
Date Analyzed: 02/09/2018 11:31
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.36		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	76		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09054.d
Lims ID: 280-105999-B-16-A
Client ID: FAY-D-4830SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:31:56 ALS Bottle#: 48 Worklist Smp#: 44
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-16-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:20

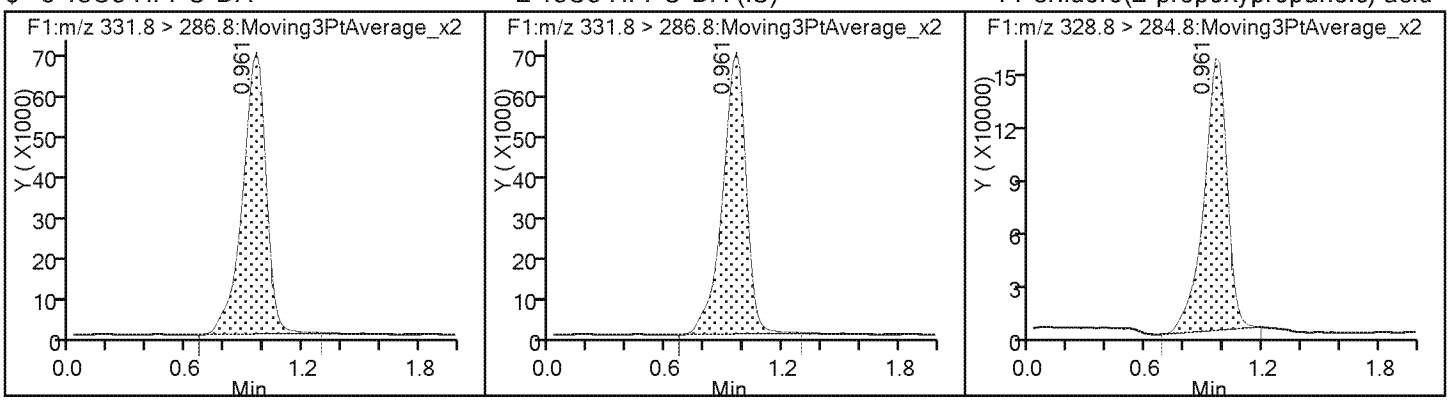
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	565737	7.58	856	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		565737	10.0	856	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	1202537	19.9	75.0	

Report Date: 09-Feb-2018 12:56:03 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09054.d				
Injection Date:	09-Feb-2018 11:31:56	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-16-A	Lab Sample ID:	280-105999-16		
Client ID:	FAY-D-4830SNWBR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	48	Worklist Smp#:	44
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09054.d
Lims ID: 280-105999-B-16-A
Client ID: FAY-D-4830SNWBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:31:56 ALS Bottle#: 48 Worklist Smp#: 44
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-16-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.58	75.78

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3612PNEBR-W1-1-013118
Lab Sample ID: 280-105999-17
Matrix: Water
Lab File ID: hfpo718B09055.d
Analysis Method: 8321A
Date Collected: 01/31/2018 15:31
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 281.6(mL)
Date Analyzed: 02/09/2018 11:35
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09055.d
Lims ID: 280-105999-B-17-A
Client ID: FAY-D-3612PNEBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:35:12 ALS Bottle#: 1 Worklist Smp#: 45
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-17-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:22

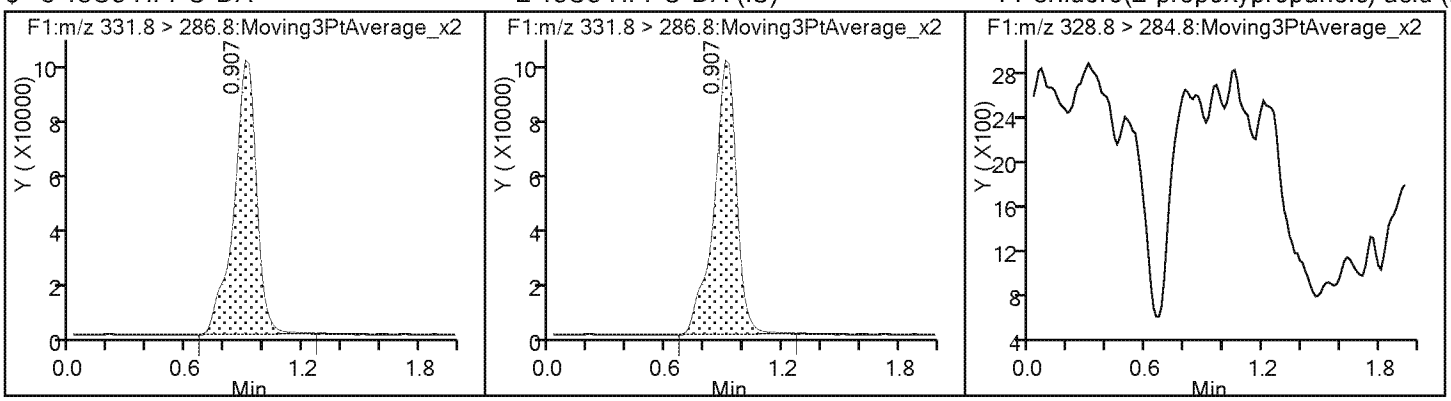
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	754869	10.1	1174	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		754869	10.0	1174	

Report Date: 09-Feb-2018 12:56:04 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09055.d				
Injection Date:	09-Feb-2018 11:35:12	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-17-A	Lab Sample ID:	280-105999-17		
Client ID:	FAY-D-3612PNEBR-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	1	Worklist Smp#:	45
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09055.d
Lims ID: 280-105999-B-17-A
Client ID: FAY-D-3612PNEBR-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:35:12 ALS Bottle#: 1 Worklist Smp#: 45
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-17-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.1	101.11

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3612PNEBR-W1-2-013118
Lab Sample ID: 280-105999-18
Matrix: Water
Lab File ID: hfpo718B09056.d
Analysis Method: 8321A
Date Collected: 01/31/2018 15:31
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 278.6(mL)
Date Analyzed: 02/09/2018 11:38
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09056.d
Lims ID: 280-105999-C-18-A
Client ID: FAY-D-3612PNEBR-W1-2-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:38:27 ALS Bottle#: 2 Worklist Smp#: 46
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-18-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:24

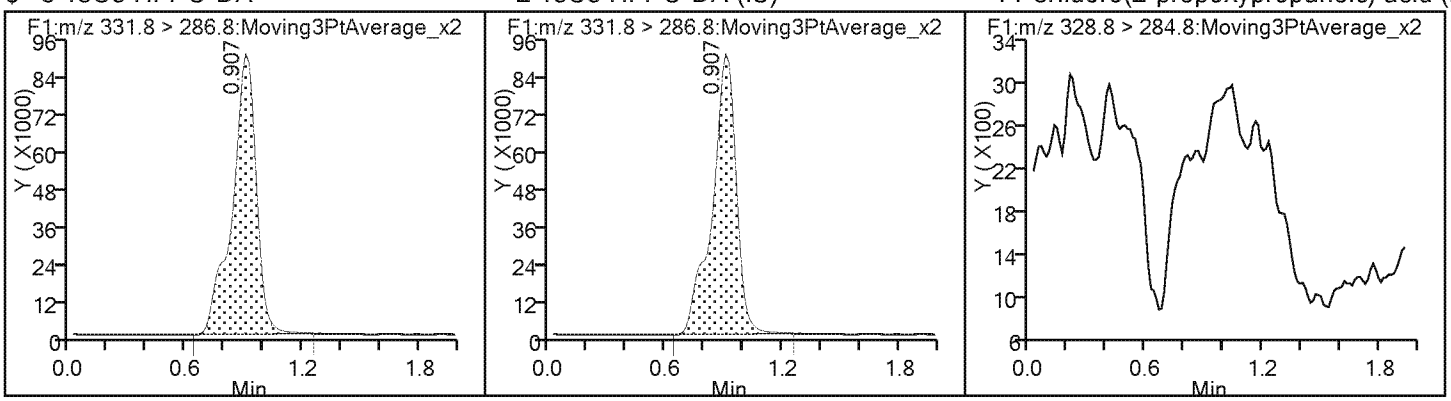
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	752131	10.1	1036	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		752131	10.0	1036	

Report Date: 09-Feb-2018 12:56:04 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09056.d				
Injection Date:	09-Feb-2018 11:38:27	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-18-A	Lab Sample ID:	280-105999-18		
Client ID:	FAY-D-3612PNEBR-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	46
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09056.d
Lims ID: 280-105999-C-18-A
Client ID: FAY-D-3612PNEBR-W1-2-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:38:27 ALS Bottle#: 2 Worklist Smp#: 46
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-18-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.1	100.74

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-6883BUTLE-W1-1-013118
Lab Sample ID: 280-105999-19
Matrix: Water
Lab File ID: hfpo718B09057.d
Analysis Method: 8321A
Date Collected: 01/31/2018 16:32
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 280.5(mL)
Date Analyzed: 02/09/2018 11:41
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.014		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09057.d
Lims ID: 280-105999-B-19-A
Client ID: FAY-D-6883BUTLE-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:41:41 ALS Bottle#: 3 Worklist Smp#: 47
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-19-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:27

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	772285	10.3	969	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		772285	10.0	969	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	68564	0.8006	4.9	M

QC Flag Legend

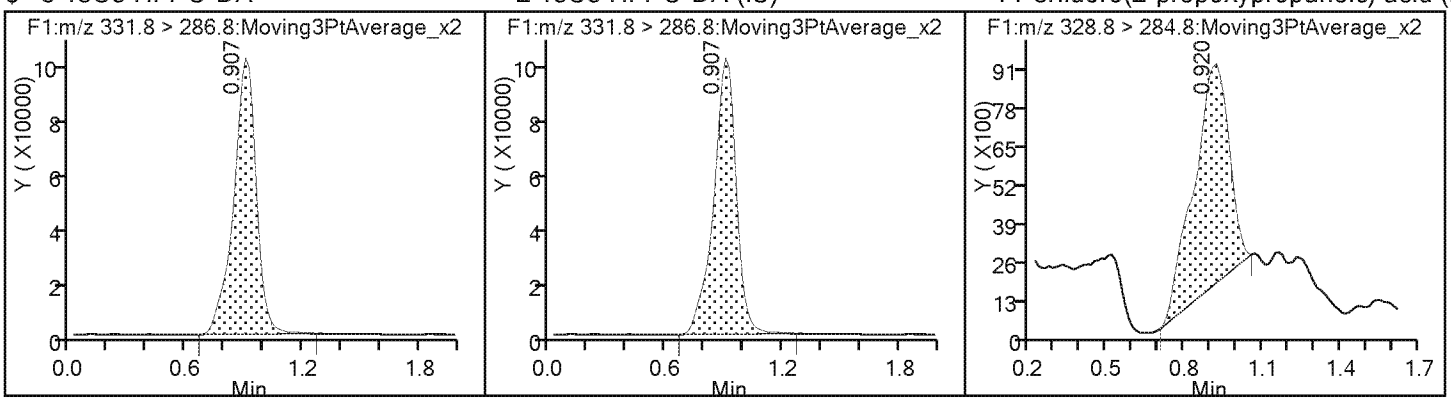
Review Flags
M - Manually Integrated

Report Date: 09-Feb-2018 12:56:05 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09057.d				
Injection Date:	09-Feb-2018 11:41:41	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-19-A	Lab Sample ID:	280-105999-19		
Client ID:	FAY-D-6883BUTLE-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	3	Worklist Smp#:	47
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09057.d
Lims ID: 280-105999-B-19-A
Client ID: FAY-D-6883BUTLE-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 11:41:41 ALS Bottle#: 3 Worklist Smp#: 47
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-19-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.3	103.44

Manual Integration/User Assign Peak Report

TestAmerica Denver

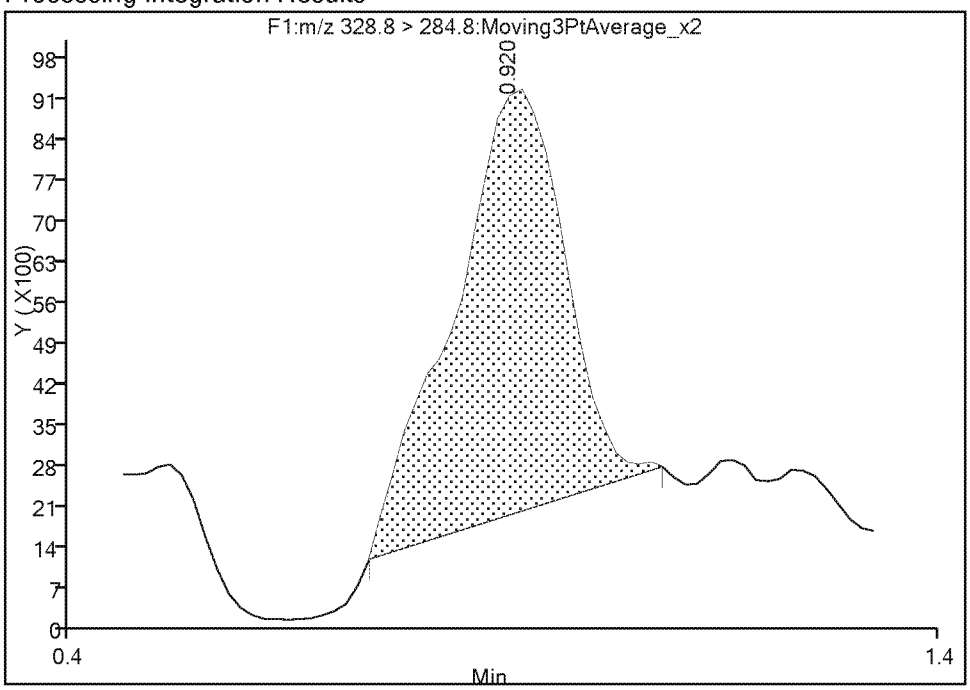
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09057.d				
Injection Date:	09-Feb-2018 11:41:41	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-19-A	Lab Sample ID:	280-105999-19		
Client ID:	FAY-D-6883BUTLE-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	3	Worklist Smp#:	47
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

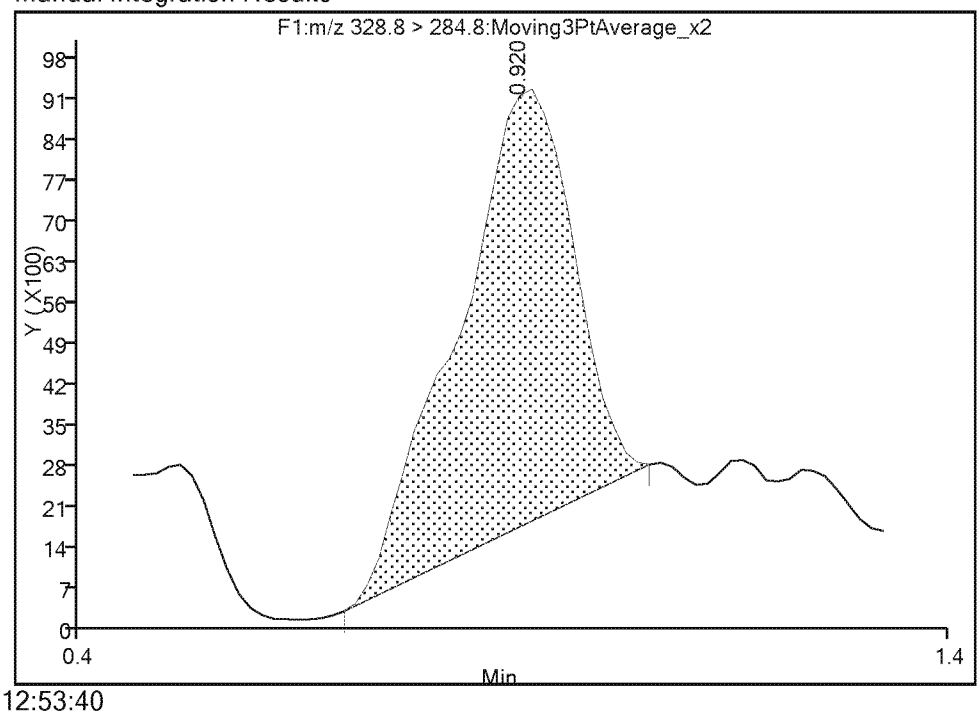
Processing Integration Results

RT: 0.92
Area: 64202
Amount: 0.747505
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 68564
Amount: 0.800599
Amount Units: ug/l



Reviewer: meyera, 09-Feb-2018 12:53:40

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-6900TABOR-W1-1-013018
Lab Sample ID: 280-105999-20
Matrix: Water
Lab File ID: hfpo718B09058.d
Analysis Method: 8321A
Date Collected: 01/30/2018 12:47
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 283.1(mL)
Date Analyzed: 02/09/2018 11:44
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.030		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	99		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09058.d
Lims ID: 280-105999-D-20-A
Client ID: FAY-D-6900TABOR-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 11:44:56 ALS Bottle#: 4 Worklist Smp#: 48
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-20-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:46

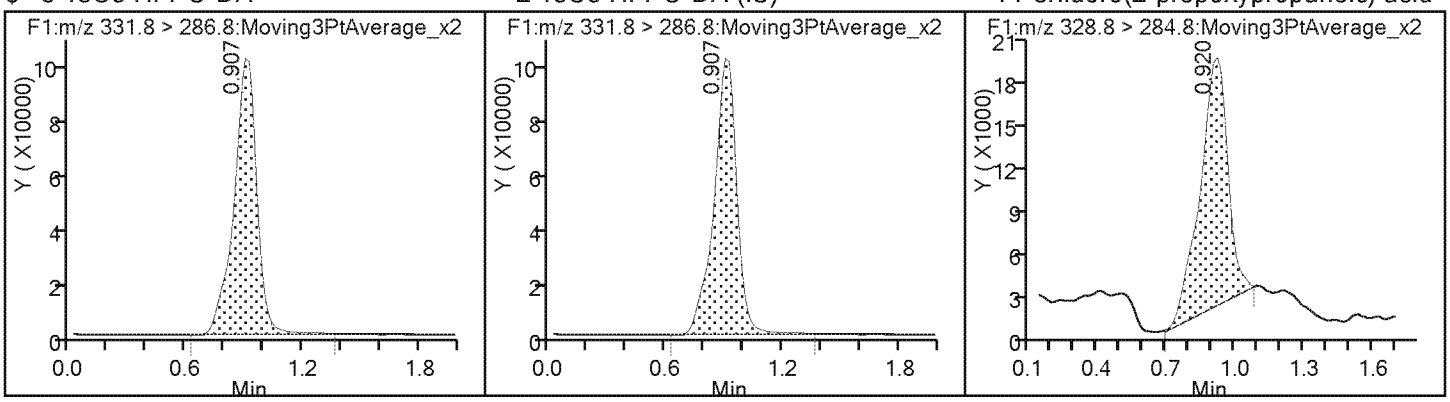
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	740155	9.91	1241	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		740155	10.0	1241	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	137651	1.71	10.6	

Report Date: 09-Feb-2018 12:56:05 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09058.d				
Injection Date:	09-Feb-2018 11:44:56	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-20-A	Lab Sample ID:	280-105999-20		
Client ID:	FAY-D-6900TABOR-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	4	Worklist Smp#:	48
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09058.d
Lims ID: 280-105999-D-20-A
Client ID: FAY-D-6900TABOR-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 11:44:56 ALS Bottle#: 4 Worklist Smp#: 48
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-20-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.91	99.14

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5515MATTH-W1-1-013018
Lab Sample ID: 280-105999-21
Matrix: Water
Lab File ID: hfpo718B09059.d
Analysis Method: 8321A
Date Collected: 01/30/2018 15:16
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 291.7(mL)
Date Analyzed: 02/09/2018 11:48
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.018		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	109		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09059.d
Lims ID: 280-105999-A-21-A
Client ID: FAY-D-5515MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 11:48:10 ALS Bottle#: 5 Worklist Smp#: 49
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-21-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:56

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	816454	10.9	999	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		816454	10.0	999	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	95063	1.06	8.3	M

QC Flag Legend

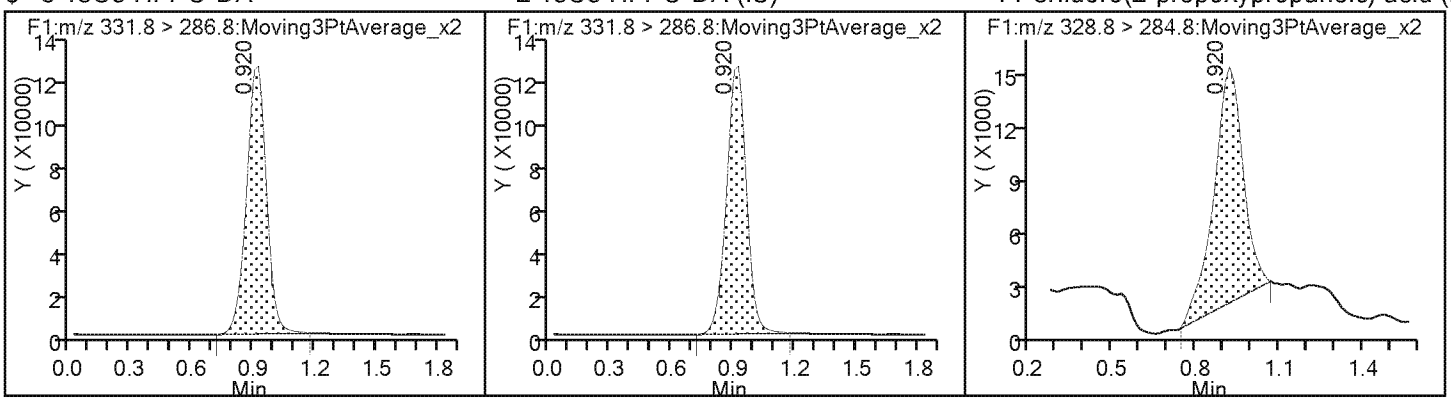
Review Flags
M - Manually Integrated

Report Date: 09-Feb-2018 12:56:06 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09059.d				
Injection Date:	09-Feb-2018 11:48:10	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-21-A	Lab Sample ID:	280-105999-21		
Client ID:	FAY-D-5515MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	5	Worklist Smp#:	49
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09059.d
Lims ID: 280-105999-A-21-A
Client ID: FAY-D-5515MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 11:48:10 ALS Bottle#: 5 Worklist Smp#: 49
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-21-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.9	109.36

Manual Integration/User Assign Peak Report

TestAmerica Denver

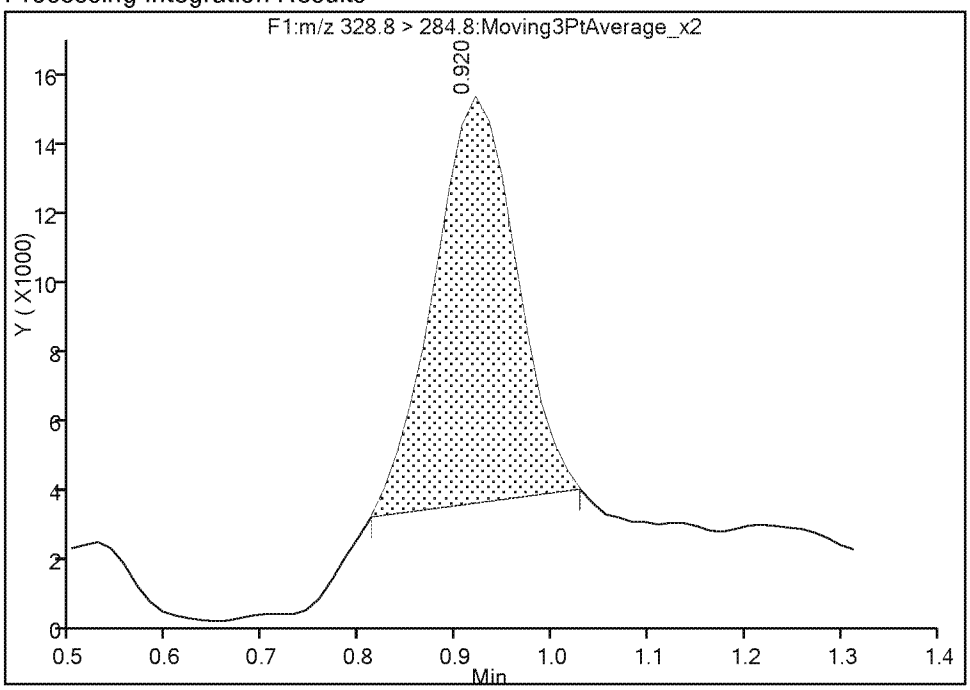
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09059.d				
Injection Date:	09-Feb-2018 11:48:10	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-21-A	Lab Sample ID:	280-105999-21		
Client ID:	FAY-D-5515MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	5	Worklist Smp#:	49
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

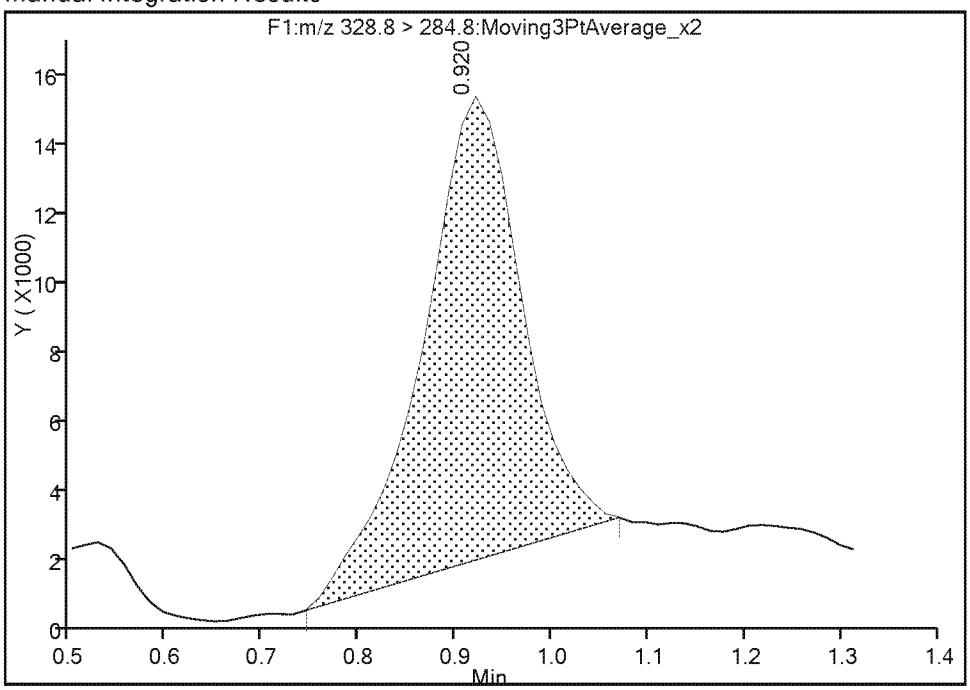
Processing Integration Results

RT: 0.92
Area: 68809
Amount: 0.758272
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 95063
Amount: 1.060548
Amount Units: ug/l



Reviewer: meyera, 09-Feb-2018 12:53:55

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5455MATTH-W1-1-013018
Lab Sample ID: 280-105999-22
Matrix: Water
Lab File ID: hfpo718B09062.d
Analysis Method: 8321A
Date Collected: 01/30/2018 17:03
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 278(mL)
Date Analyzed: 02/09/2018 11:57
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.14		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	86		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09062.d
Lims ID: 280-105999-A-22-A
Client ID: FAY-D-5455MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 11:57:53 ALS Bottle#: 8 Worklist Smp#: 52
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-22-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:14

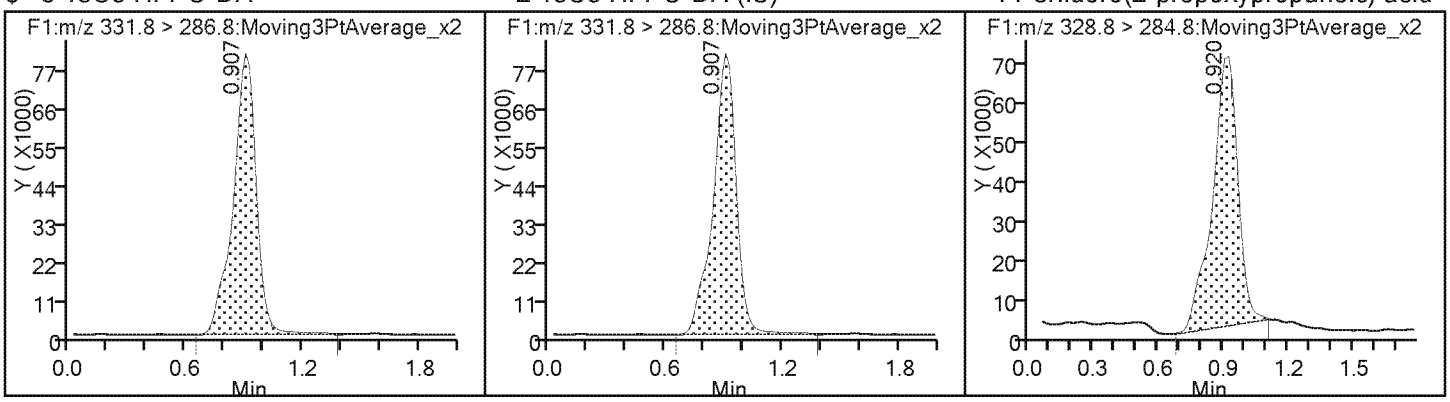
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	644748	8.64	1157	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		644748	10.0	1157	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	546890	7.94	37.6	

Report Date: 09-Feb-2018 12:56:07 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09062.d				
Injection Date:	09-Feb-2018 11:57:53	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-22-A	Lab Sample ID:	280-105999-22		
Client ID:	FAY-D-5455MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	8	Worklist Smp#:	52
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09062.d				
Lims ID:	280-105999-A-22-A				
Client ID:	FAY-D-5455MATTH-W1-1-013018				
Sample Type:	Client				
Inject. Date:	09-Feb-2018 11:57:53	ALS Bottle#:	8	Worklist Smp#:	52
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-105999-A-22-A				
Misc. Info.:	HFPO18B09				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	09-Feb-2018 12:56:02	Calib Date:	08-Feb-2018 13:31:32		
Integrator:	Picker				
Quant Method:	Internal/External Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d				
Column 1 :			Det: F1:MRM		
Process Host:	XAWRK015				

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.64	86.36

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5459MATTH-W1-1-013018
Lab Sample ID: 280-105999-23
Matrix: Water
Lab File ID: hfpo718B09063.d
Analysis Method: 8321A
Date Collected: 01/30/2018 16:34
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 282.5(mL)
Date Analyzed: 02/09/2018 12:01
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.037		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	107		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09063.d
Lims ID: 280-105999-B-23-A
Client ID: FAY-D-5459MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 12:01:08 ALS Bottle#: 9 Worklist Smp#: 53
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-23-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:25

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	797960	10.7	889	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		797960	10.0	889	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	180106	2.09	12.6	M

QC Flag Legend

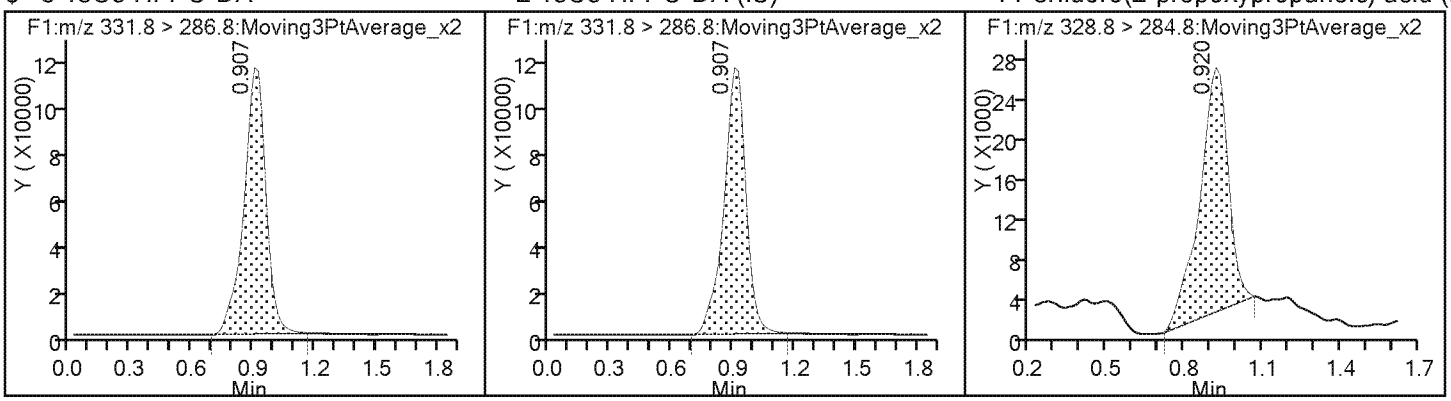
Review Flags
M - Manually Integrated

Report Date: 09-Feb-2018 12:56:08 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09063.d				
Injection Date:	09-Feb-2018 12:01:08	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-23-A	Lab Sample ID:	280-105999-23		
Client ID:	FAY-D-5459MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	9	Worklist Smp#:	53
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09063.d
Lims ID: 280-105999-B-23-A
Client ID: FAY-D-5459MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 09-Feb-2018 12:01:08 ALS Bottle#: 9 Worklist Smp#: 53
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-23-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.7	106.88

Manual Integration/User Assign Peak Report

TestAmerica Denver

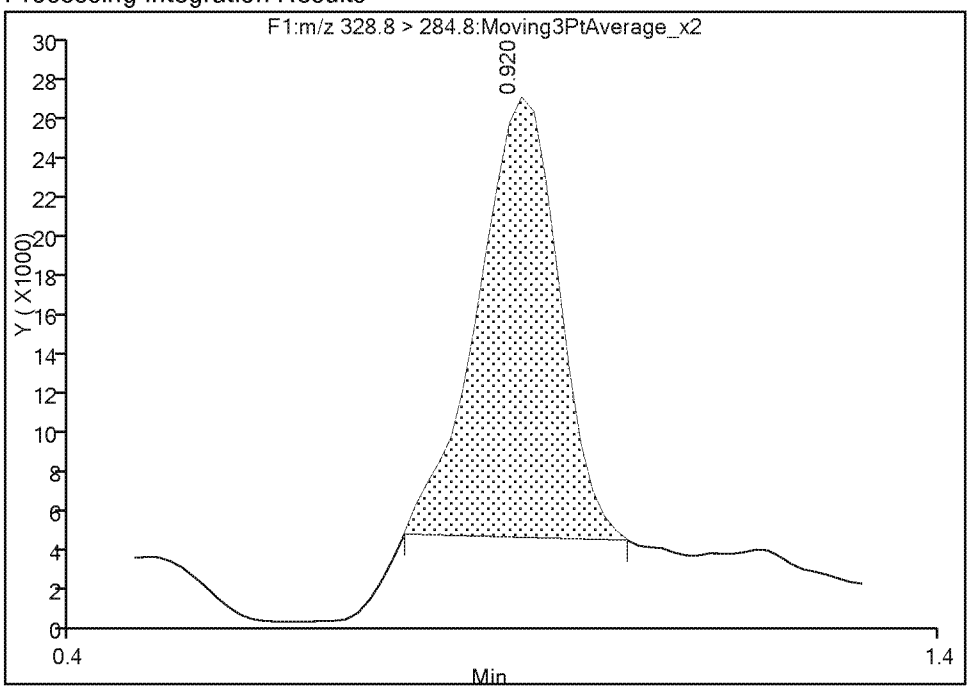
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09063.d				
Injection Date:	09-Feb-2018 12:01:08	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-23-A	Lab Sample ID:	280-105999-23		
Client ID:	FAY-D-5459MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	9	Worklist Smp#:	53
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

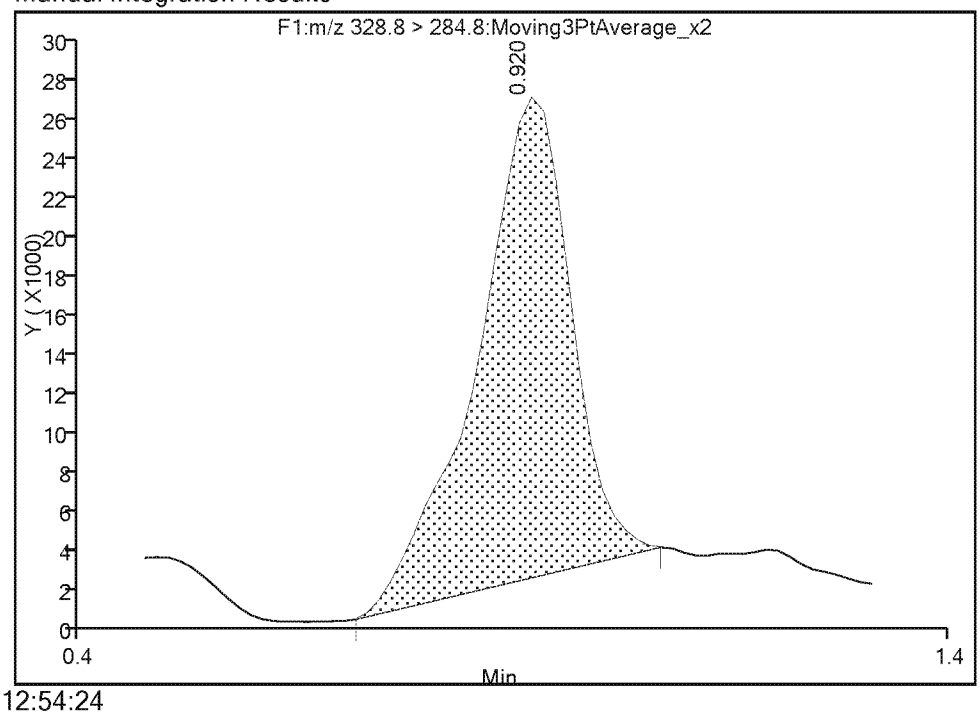
Processing Integration Results

RT: 0.92
Area: 141911
Amount: 1.637802
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 180106
Amount: 2.087753
Amount Units: ug/l



Reviewer: meyera, 09-Feb-2018 12:54:24

Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5505MATTH-W1-1-013018
Lab Sample ID: 280-105999-24
Matrix: Water
Lab File ID: hfpo718B12041.d
Analysis Method: 8321A
Date Collected: 01/30/2018 16:45
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 273.6(mL)
Date Analyzed: 02/12/2018 12:27
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.065		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	58		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12041.d
Lims ID: 280-105999-A-24-A
Client ID: FAY-D-5505MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 12:27:24 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-24-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:51

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	434081	5.81	1106	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		434081	10.0	1106	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.934	1.056	-0.122	1.000	165742	3.56	45.0	M

QC Flag Legend

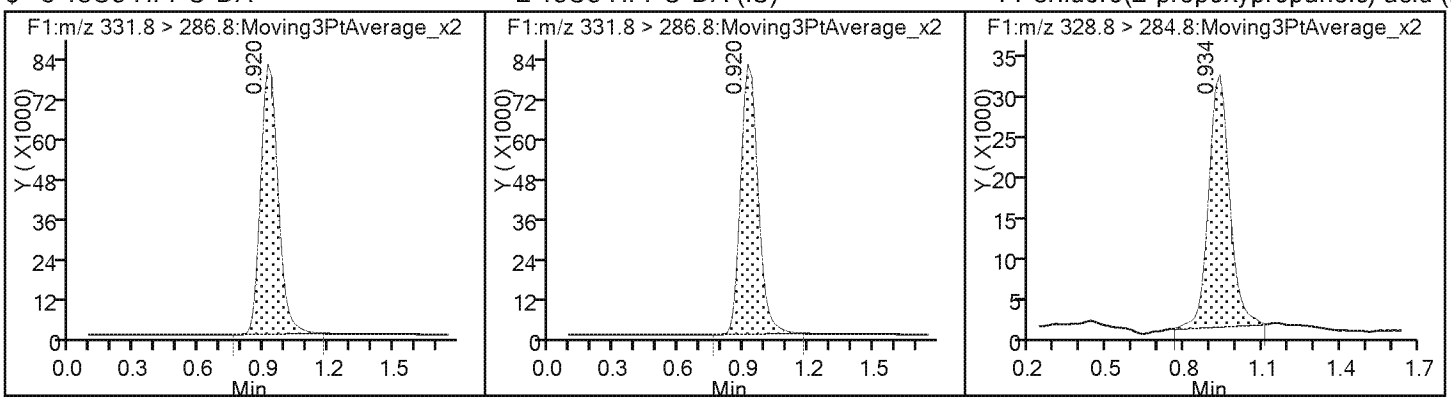
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:31:00 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12041.d				
Injection Date:	12-Feb-2018 12:27:24	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-24-A	Lab Sample ID:	280-105999-24		
Client ID:	FAY-D-5505MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	16	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12041.d
Lims ID: 280-105999-A-24-A
Client ID: FAY-D-5505MATTH-W1-1-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 12:27:24 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-24-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	5.81	58.14

Manual Integration/User Assign Peak Report

TestAmerica Denver

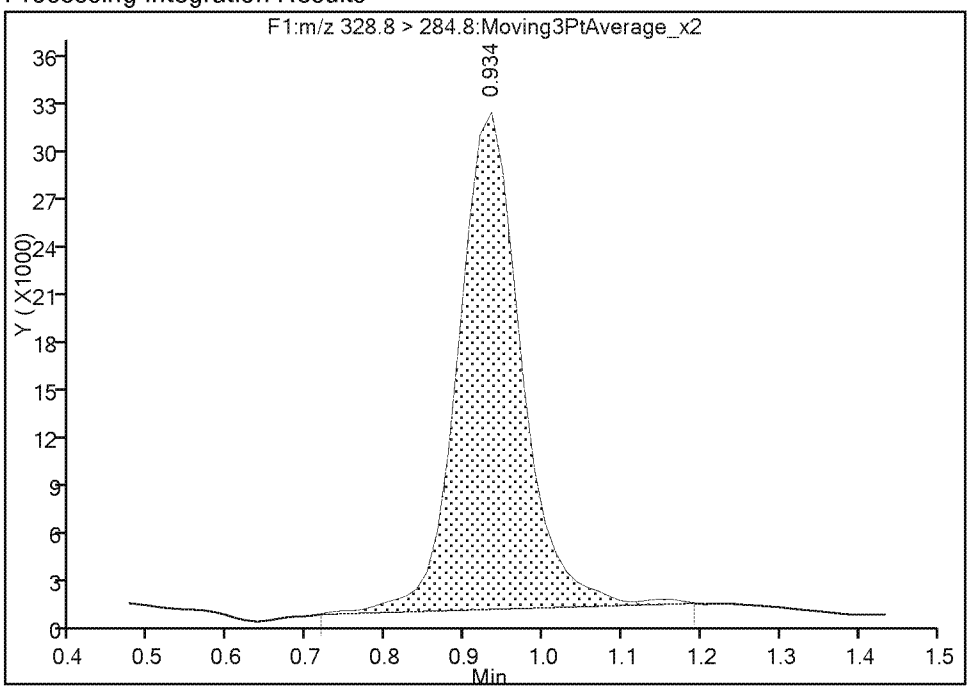
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12041.d				
Injection Date:	12-Feb-2018 12:27:24	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-24-A	Lab Sample ID:	280-105999-24		
Client ID:	FAY-D-5505MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	16	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

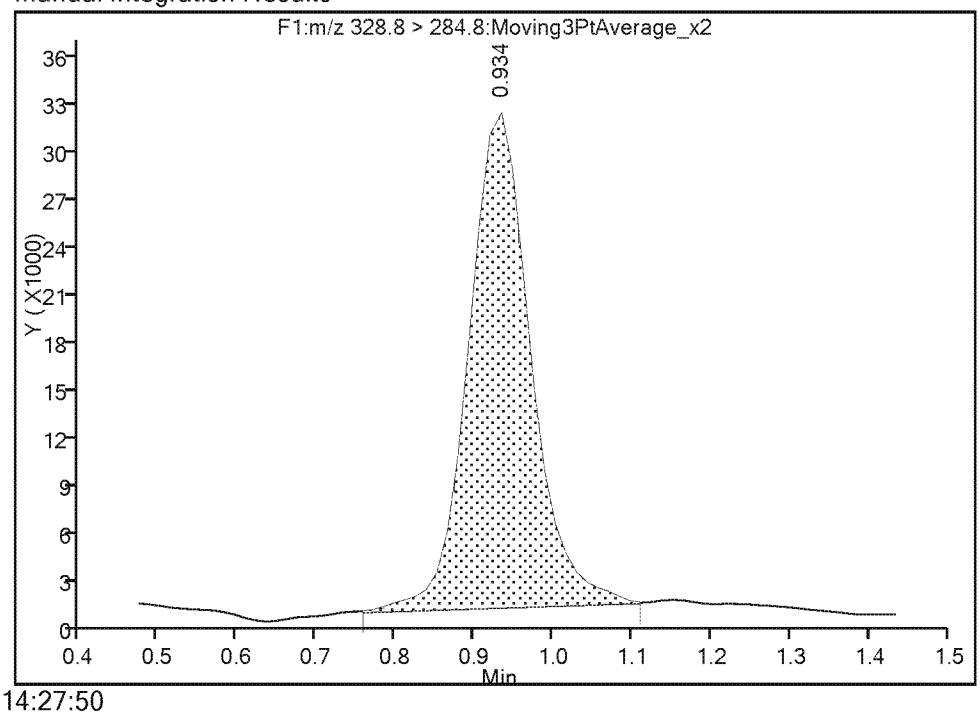
Processing Integration Results

RT: 0.93
Area: 168562
Amount: 3.616341
Amount Units: ug/l



Manual Integration Results

RT: 0.93
Area: 165742
Amount: 3.555273
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:27:50

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5515MATTH-W1-1-013018D
Lab Sample ID: 280-105999-25
Matrix: Water
Lab File ID: hfpo718B12042.d
Analysis Method: 8321A
Date Collected: 01/30/2018 15:16
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 267.2(mL)
Date Analyzed: 02/12/2018 12:30
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.018		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	61		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12042.d
Lims ID: 280-105999-D-25-A
Client ID: FAY-D-5515MATTH-W1-1-013018D
Sample Type: Client
Inject. Date: 12-Feb-2018 12:30:39 ALS Bottle#: 17 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-25-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:54

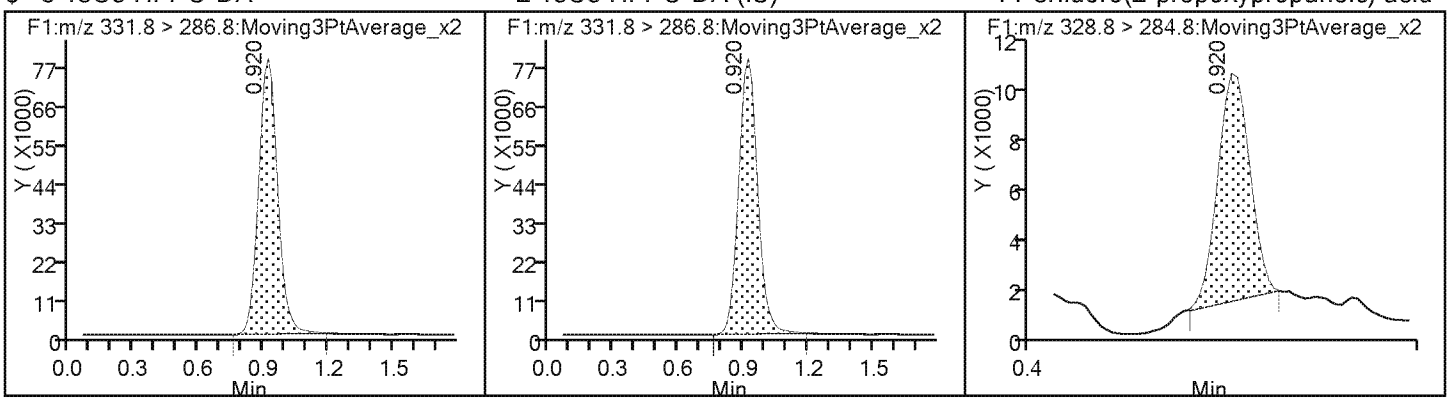
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	458543	6.14	1201	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		458543	10.0	1201	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	49311	0.9769	11.5	

Report Date: 12-Feb-2018 14:31:02 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12042.d				
Injection Date:	12-Feb-2018 12:30:39	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-25-A	Lab Sample ID:	280-105999-25		
Client ID:	FAY-D-5515MATTH-W1-1-013018D				
Operator ID:	JBH	ALS Bottle#:	17	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12042.d
Lims ID: 280-105999-D-25-A
Client ID: FAY-D-5515MATTH-W1-1-013018D
Sample Type: Client
Inject. Date: 12-Feb-2018 12:30:39 ALS Bottle#: 17 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-25-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.14	61.42

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-2808CHIMB-W1-1-012918
Lab Sample ID: 280-105999-26
Matrix: Water
Lab File ID: hfpo718B08050.d
Analysis Method: 8321A
Date Collected: 01/29/2018 14:11
Extraction Method: 3535
Date Extracted: 02/07/2018 10:33
Sample wt/vol: 250.7(mL)
Date Analyzed: 02/08/2018 13:57
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404346
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.018		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	114		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08050.d
Lims ID: 280-105999-B-26-A
Client ID: FAY-D-2808CHIMB-W1-1-012918
Sample Type: Client
Inject. Date: 08-Feb-2018 13:57:27 ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-26-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:53

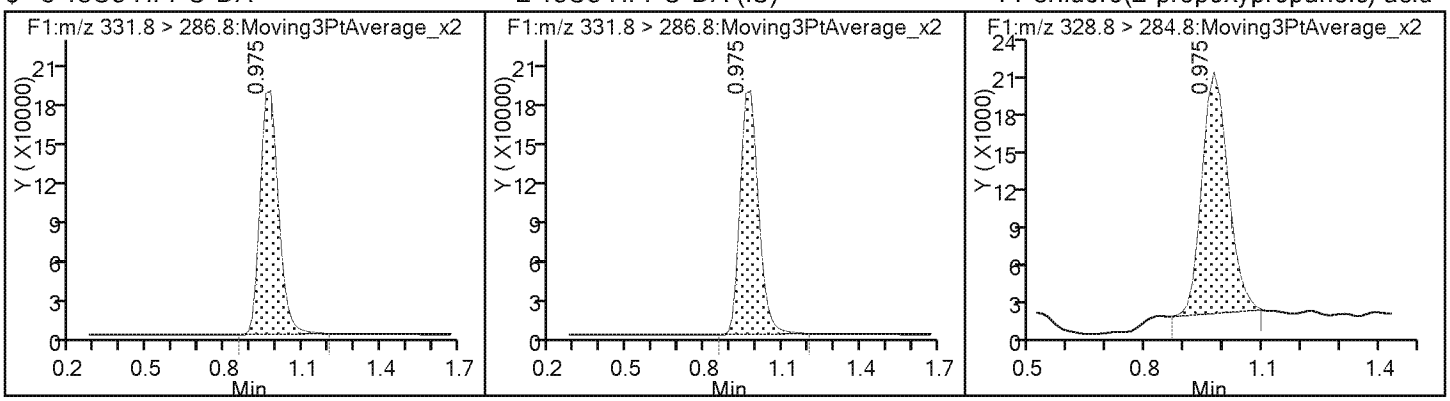
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	854731	11.4	1213	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		854731	10.0	1213	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.975	1.056	-0.081	1.000	87085	0.9238	16.2	

Report Date: 08-Feb-2018 15:24:22 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08050.d				
Injection Date:	08-Feb-2018 13:57:27	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-26-A	Lab Sample ID:	280-105999-26		
Client ID:	FAY-D-2808CHIMB-W1-1-012918				
Operator ID:	JBH	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08050.d
Lims ID: 280-105999-B-26-A
Client ID: FAY-D-2808CHIMB-W1-1-012918
Sample Type: Client
Inject. Date: 08-Feb-2018 13:57:27 ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-26-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.4	114.48

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-105999-1

SDG No.:

Client Sample ID: FAY-D-FB-012918 | Lab Sample ID: 280-105999-27

Matrix: Water | Lab File ID: hfpo718B08051.d

Analysis Method: 8321A | Date Collected: 01/29/2018 07:00

Extraction Method: 3535 | Date Extracted: 02/07/2018 10:33

Sample wt/vol: 244.7(mL) | Date Analyzed: 02/08/2018 14:00

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404346 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	125		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08051.d
Lims ID: 280-105999-A-27-A
Client ID: FAY-D-FB-012918
Sample Type: Client
Inject. Date: 08-Feb-2018 14:00:41 ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-27-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:56

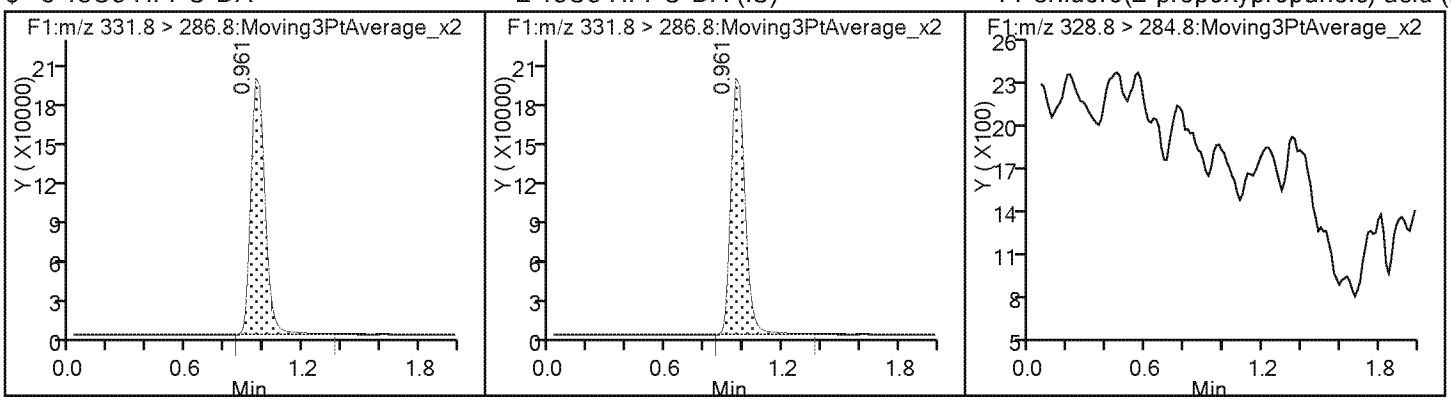
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	929754	12.5	1958	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		929754	10.0	1958	

Report Date: 08-Feb-2018 15:24:22 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08051.d				
Injection Date:	08-Feb-2018 14:00:41	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-27-A	Lab Sample ID:	280-105999-27		
Client ID:	FAY-D-FB-012918				
Operator ID:	JBH	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08051.d
Lims ID: 280-105999-A-27-A
Client ID: FAY-D-FB-012918
Sample Type: Client
Inject. Date: 08-Feb-2018 14:00:41 ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-27-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	12.5	124.53

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3067NC20H-W1-1-013118
Lab Sample ID: 280-105999-28
Matrix: Water
Lab File ID: hfpo718B09066.d
Analysis Method: 8321A
Date Collected: 01/31/2018 15:07
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 284.9(mL)
Date Analyzed: 02/09/2018 12:10
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09066.d
Lims ID: 280-105999-C-28-A
Client ID: FAY-D-3067NC20H-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:10:50 ALS Bottle#: 11 Worklist Smp#: 56
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-28-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:43

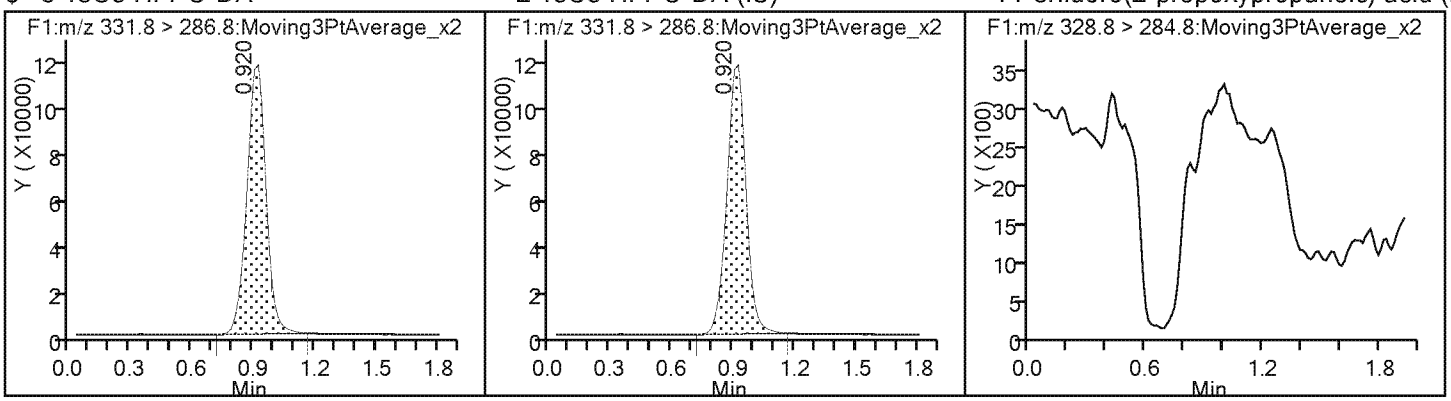
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	710407	9.52	987	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		710407	10.0	987	

Report Date: 09-Feb-2018 12:56:09 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09066.d				
Injection Date:	09-Feb-2018 12:10:50	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-28-A	Lab Sample ID:	280-105999-28		
Client ID:	FAY-D-3067NC20H-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	11	Worklist Smp#:	56
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09066.d
Lims ID: 280-105999-C-28-A
Client ID: FAY-D-3067NC20H-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:10:50 ALS Bottle#: 11 Worklist Smp#: 56
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-28-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.52	95.15

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-105999-1

SDG No.:

Client Sample ID: FAY-D-FB-013118 | Lab Sample ID: 280-105999-29

Matrix: Water | Lab File ID: hfpo718B09067.d

Analysis Method: 8321A | Date Collected: 01/31/2018 08:30

Extraction Method: 3535 | Date Extracted: 02/08/2018 18:22

Sample wt/vol: 288.2(mL) | Date Analyzed: 02/09/2018 12:14

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 20(uL) | GC Column: Synergi Hydro ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 404458 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09067.d
Lims ID: 280-105999-B-29-A
Client ID: FAY-D-FB-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:14:04 ALS Bottle#: 12 Worklist Smp#: 57
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-29-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:45

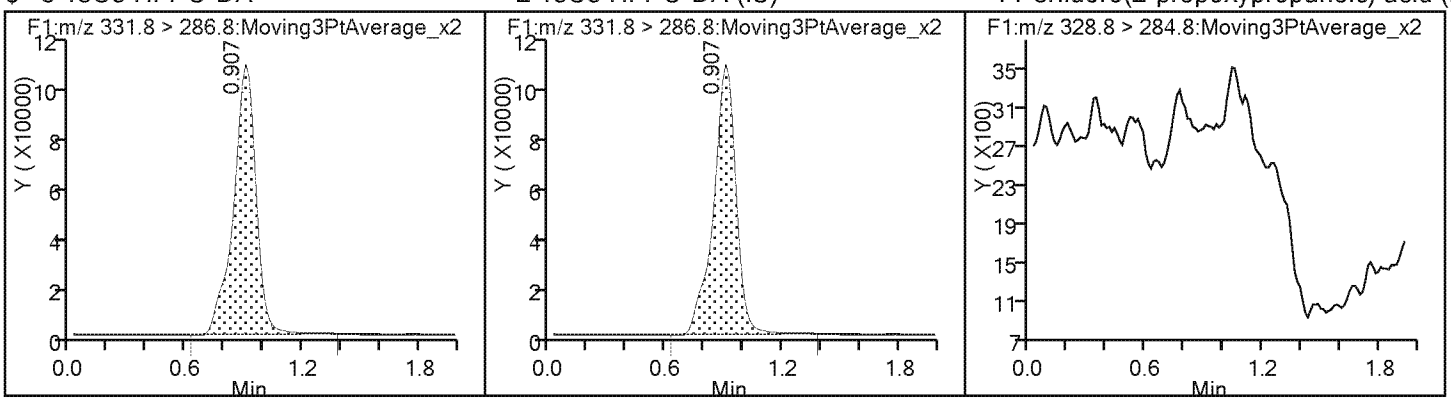
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	807779	10.8	1729	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		807779	10.0	1729	

Report Date: 09-Feb-2018 12:56:10 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09067.d				
Injection Date:	09-Feb-2018 12:14:04	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-29-A	Lab Sample ID:	280-105999-29		
Client ID:	FAY-D-FB-013118				
Operator ID:	JBH	ALS Bottle#:	12	Worklist Smp#:	57
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09067.d
Lims ID: 280-105999-B-29-A
Client ID: FAY-D-FB-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:14:04 ALS Bottle#: 12 Worklist Smp#: 57
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-29-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.8	108.19

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-2713NC20H-W1-1-013118
Lab Sample ID: 280-105999-30
Matrix: Water
Lab File ID: hfpo718B09068.d
Analysis Method: 8321A
Date Collected: 01/31/2018 16:15
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 296.1(mL)
Date Analyzed: 02/09/2018 12:17
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	108		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09068.d
Lims ID: 280-105999-D-30-A
Client ID: FAY-D-2713NC20H-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:17:18 ALS Bottle#: 13 Worklist Smp#: 58
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-30-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:55:02

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	805703	10.8	1013	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		805703	10.0	1013	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.934	1.056	-0.122	1.000	36315	0.3897	2.2	M

QC Flag Legend

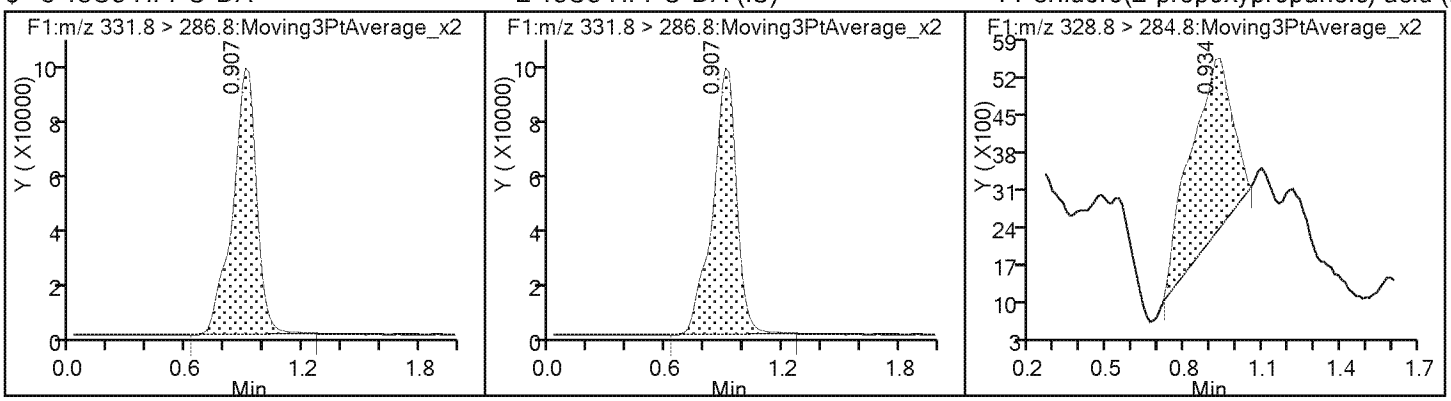
Review Flags
M - Manually Integrated

Report Date: 09-Feb-2018 12:56:10 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09068.d				
Injection Date:	09-Feb-2018 12:17:18	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-30-A	Lab Sample ID:	280-105999-30		
Client ID:	FAY-D-2713NC20H-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	13	Worklist Smp#:	58
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09068.d
Lims ID: 280-105999-D-30-A
Client ID: FAY-D-2713NC20H-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:17:18 ALS Bottle#: 13 Worklist Smp#: 58
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-30-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:55:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.8	107.92

Manual Integration/User Assign Peak Report

TestAmerica Denver

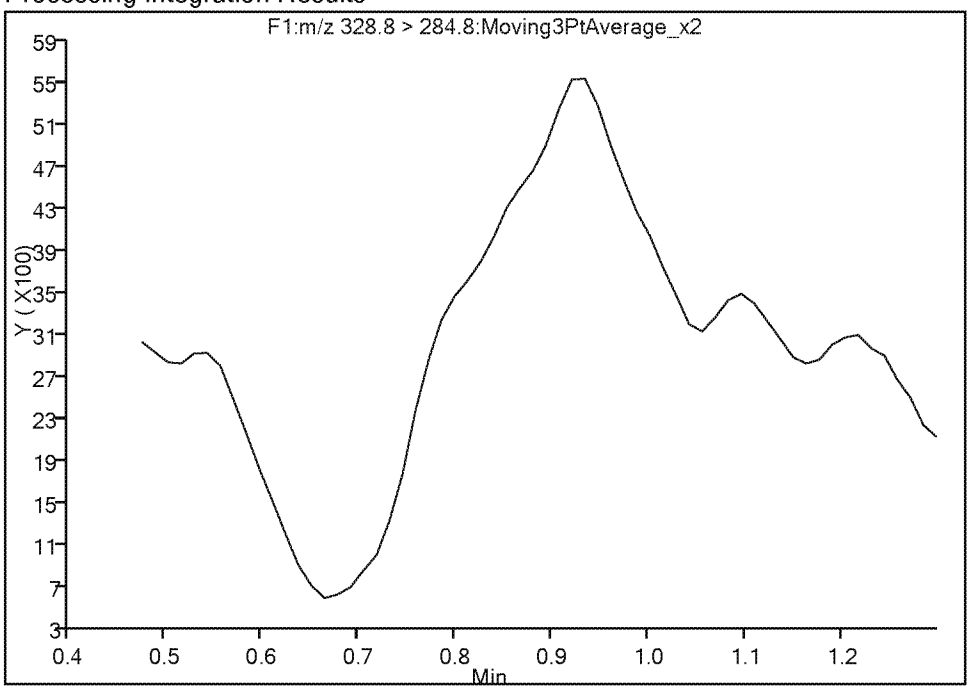
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09068.d				
Injection Date:	09-Feb-2018 12:17:18	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-30-A	Lab Sample ID:	280-105999-30		
Client ID:	FAY-D-2713NC20H-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	13	Worklist Smp#:	58
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

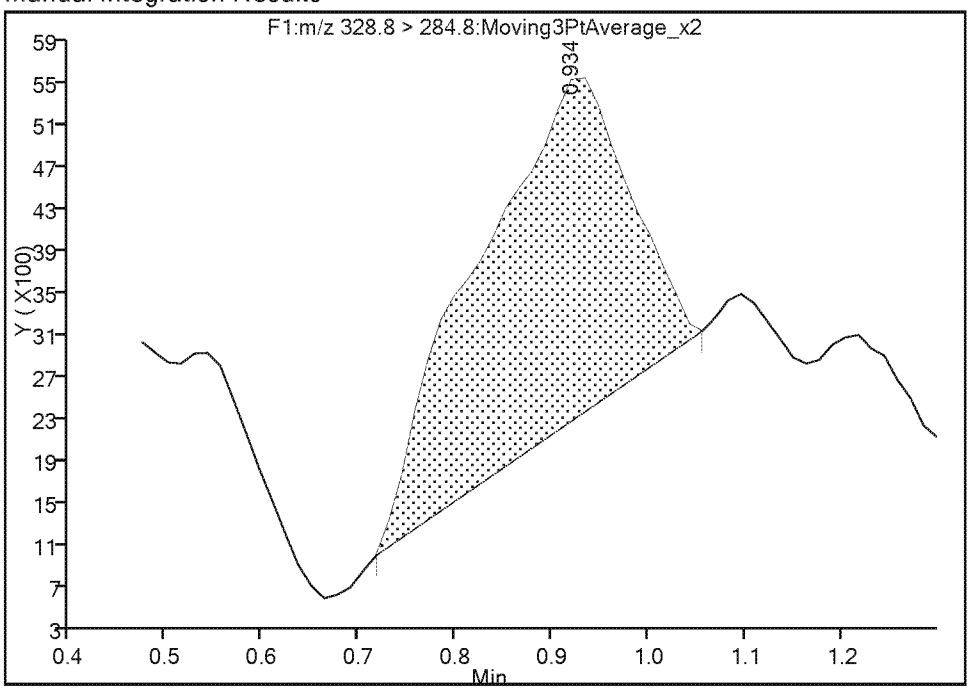
Processing Integration Results

Not Detected
Expected RT: 1.06



Manual Integration Results

RT: 0.93
Area: 36315
Amount: 0.389730
Amount Units: ug/l



Reviewer: meyera, 09-Feb-2018 12:54:57
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3065NC20H-W1-1-013118
Lab Sample ID: 280-105999-31
Matrix: Water
Lab File ID: hfpo718B09069.d
Analysis Method: 8321A
Date Collected: 01/31/2018 15:24
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 270.8(mL)
Date Analyzed: 02/09/2018 12:20
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.028		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09069.d
Lims ID: 280-105999-C-31-A
Client ID: FAY-D-3065NC20H-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:20:32 ALS Bottle#: 14 Worklist Smp#: 59
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-31-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:55:05

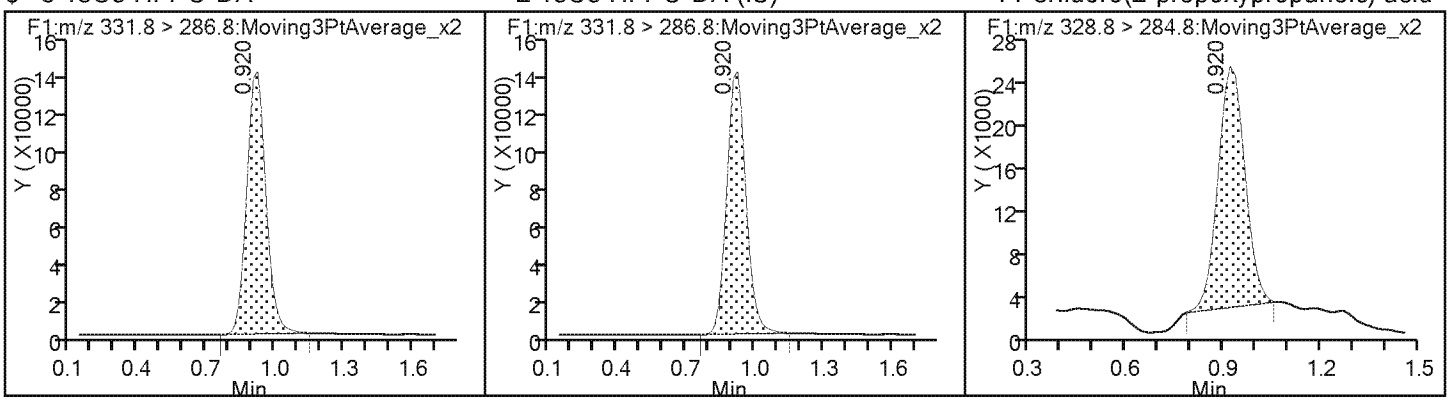
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	755945	10.1	1045	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		755945	10.0	1045	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	123251	1.50	19.0	

Report Date: 09-Feb-2018 12:56:10 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09069.d				
Injection Date:	09-Feb-2018 12:20:32	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-31-A	Lab Sample ID:	280-105999-31		
Client ID:	FAY-D-3065NC20H-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	14	Worklist Smp#:	59
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09069.d
Lims ID: 280-105999-C-31-A
Client ID: FAY-D-3065NC20H-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:20:32 ALS Bottle#: 14 Worklist Smp#: 59
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-31-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:55:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.1	101.25

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-2713NC20H-W1-2-013118
Lab Sample ID: 280-105999-32
Matrix: Water
Lab File ID: hfpo718B12043.d
Analysis Method: 8321A
Date Collected: 01/31/2018 16:15
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 287.8(mL)
Date Analyzed: 02/12/2018 12:33
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	59		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12043.d
Lims ID: 280-105999-D-32-A
Client ID: FAY-D-2713NC20H-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:33:53 ALS Bottle#: 18 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-32-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:08

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	438350	5.87	932	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		438350	10.0	932	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	22879	0.4567	3.8	M

QC Flag Legend

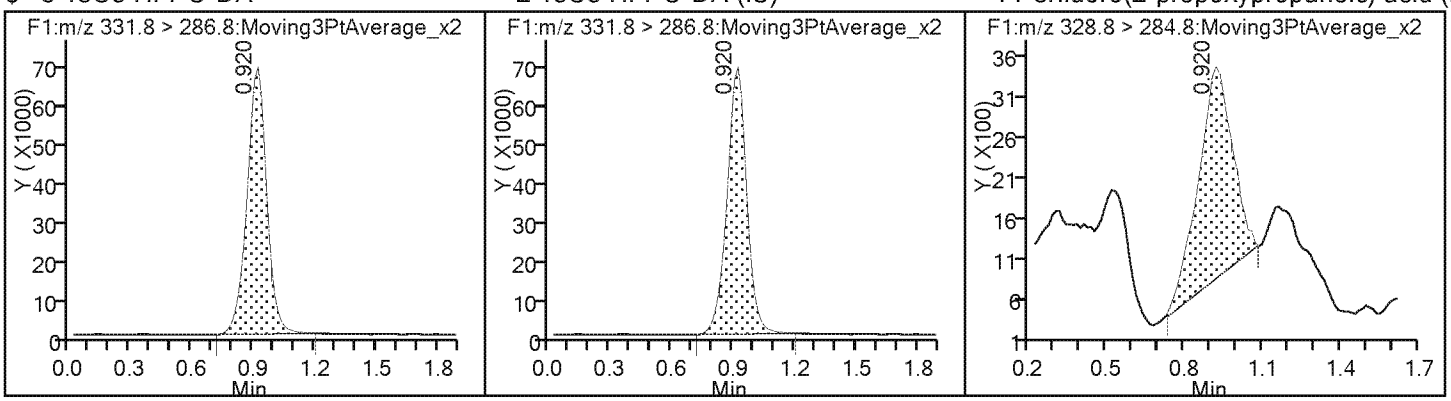
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:31:02 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12043.d				
Injection Date:	12-Feb-2018 12:33:53	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-32-A	Lab Sample ID:	280-105999-32		
Client ID:	FAY-D-2713NC20H-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	18	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12043.d
Lims ID: 280-105999-D-32-A
Client ID: FAY-D-2713NC20H-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:33:53 ALS Bottle#: 18 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-32-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	5.87	58.71

Manual Integration/User Assign Peak Report

TestAmerica Denver

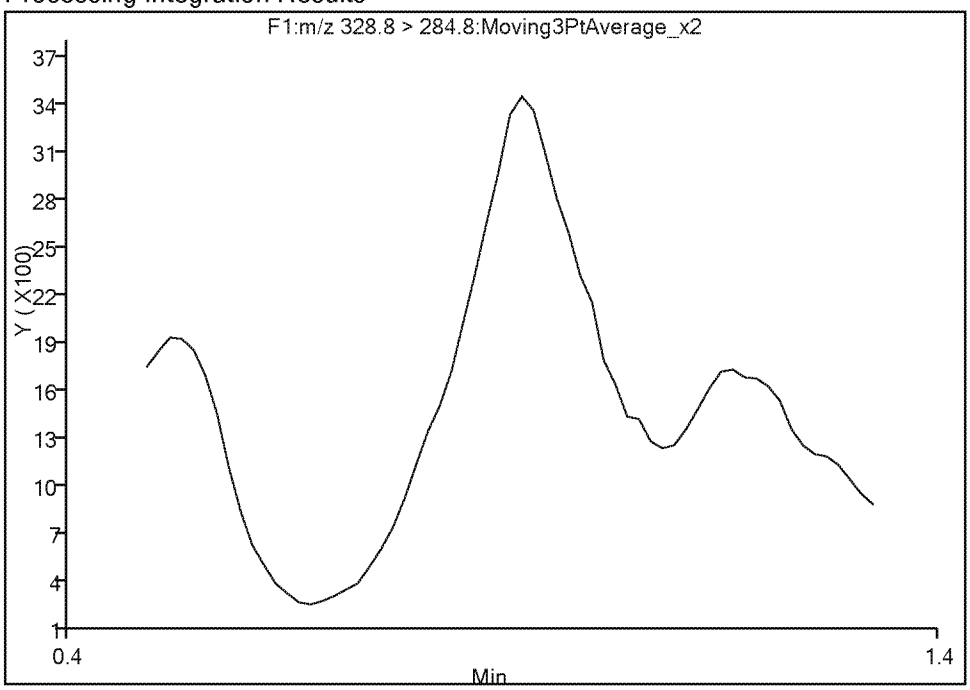
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12043.d				
Injection Date:	12-Feb-2018 12:33:53	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-32-A	Lab Sample ID:	280-105999-32		
Client ID:	FAY-D-2713NC20H-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	18	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

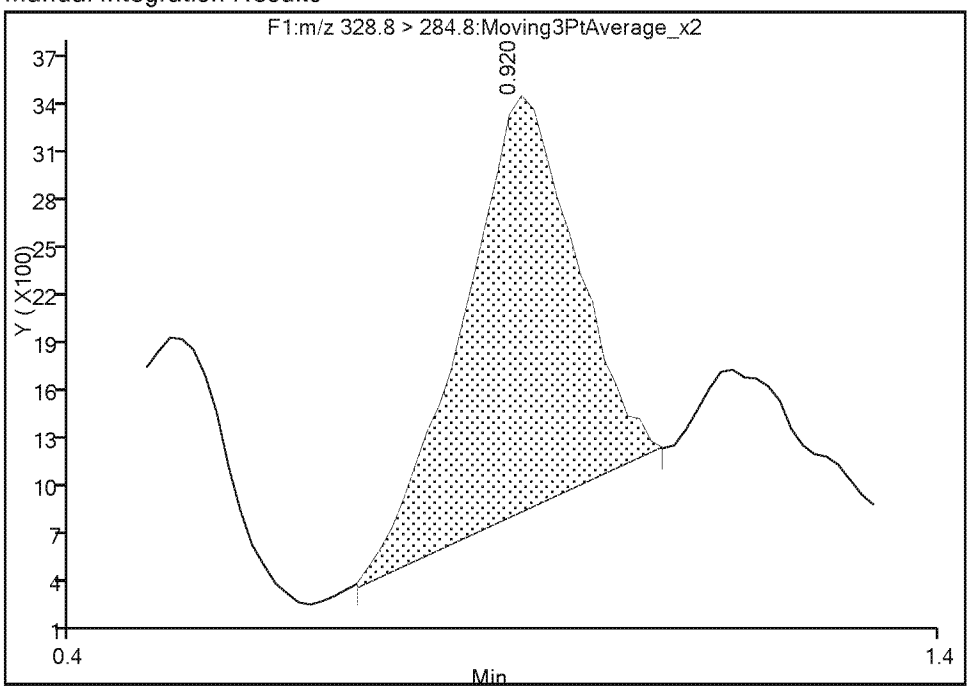
Processing Integration Results

Not Detected
Expected RT: 1.06



Manual Integration Results

RT: 0.92
Area: 22879
Amount: 0.456670
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:28:06
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3431DANDE-W1-1-013118
Lab Sample ID: 280-105999-33
Matrix: Water
Lab File ID: hfpo718B12044.d
Analysis Method: 8321A
Date Collected: 01/31/2018 14:34
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 276.7(mL)
Date Analyzed: 02/12/2018 12:37
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.30		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	60		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12044.d
Lims ID: 280-105999-A-33-A
Client ID: FAY-D-3431DANDE-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:37:08 ALS Bottle#: 19 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-33-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:11

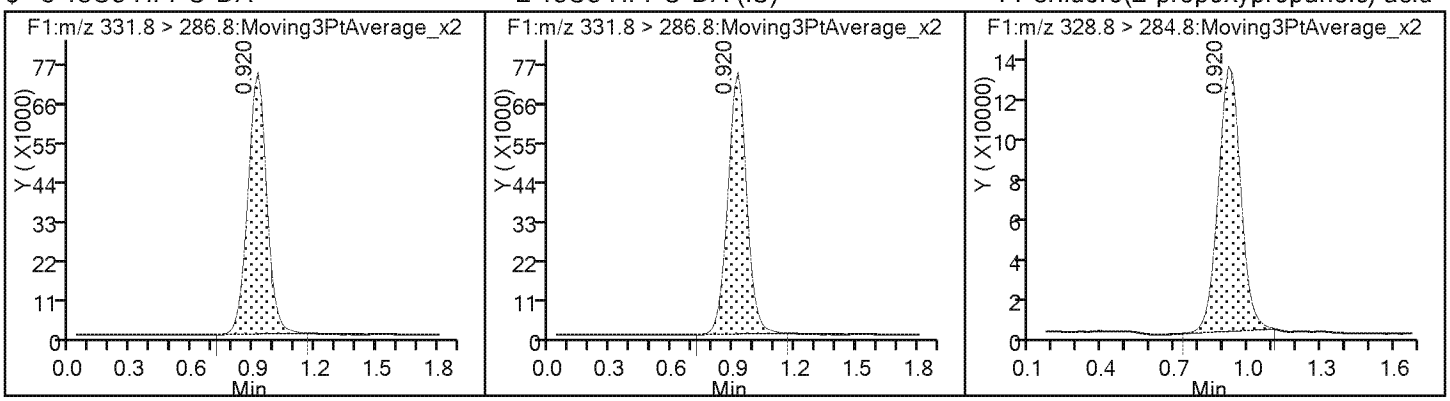
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	450183	6.03	1239	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		450183	10.0	1239	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	808693	16.9	147	

Report Date: 12-Feb-2018 14:31:03 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12044.d				
Injection Date:	12-Feb-2018 12:37:08	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-33-A	Lab Sample ID:	280-105999-33		
Client ID:	FAY-D-3431DANDE-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	19	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12044.d
Lims ID: 280-105999-A-33-A
Client ID: FAY-D-3431DANDE-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:37:08 ALS Bottle#: 19 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-33-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.03	60.30

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3417DANDE-W1-1-013118
Lab Sample ID: 280-105999-34
Matrix: Water
Lab File ID: hfpo718B09070.d
Analysis Method: 8321A
Date Collected: 01/31/2018 14:43
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 299(mL)
Date Analyzed: 02/09/2018 12:23
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.13		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09070.d
Lims ID: 280-105999-A-34-A
Client ID: FAY-D-3417DANDE-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:23:47 ALS Bottle#: 15 Worklist Smp#: 60
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-34-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:55:07

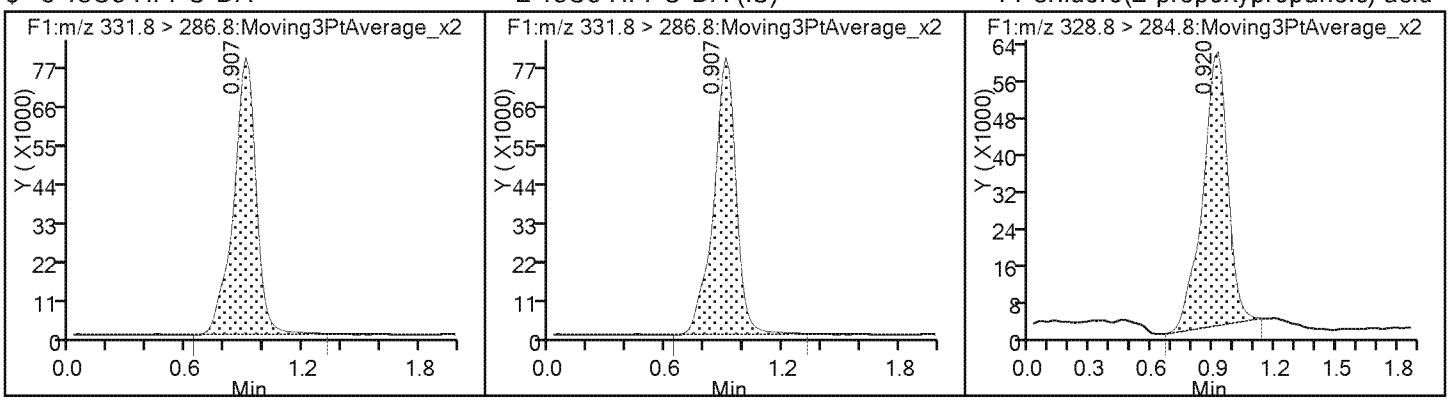
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	612754	8.21	1155	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		612754	10.0	1155	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	491345	7.50	32.6	

Report Date: 09-Feb-2018 12:56:11 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09070.d				
Injection Date:	09-Feb-2018 12:23:47	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-34-A	Lab Sample ID:	280-105999-34		
Client ID:	FAY-D-3417DANDE-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	15	Worklist Smp#:	60
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09070.d
Lims ID: 280-105999-A-34-A
Client ID: FAY-D-3417DANDE-W1-1-013118
Sample Type: Client
Inject. Date: 09-Feb-2018 12:23:47 ALS Bottle#: 15 Worklist Smp#: 60
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-34-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:55:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.21	82.07

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3203LUGSL-W1-1-013118
Lab Sample ID: 280-105999-35
Matrix: Water
Lab File ID: hfpo718B12045.d
Analysis Method: 8321A
Date Collected: 01/31/2018 15:54
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 281.3(mL)
Date Analyzed: 02/12/2018 12:40
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.049		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	59		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12045.d
Lims ID: 280-105999-C-35-A
Client ID: FAY-D-3203LUGSL-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:40:23 ALS Bottle#: 20 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-35-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:13

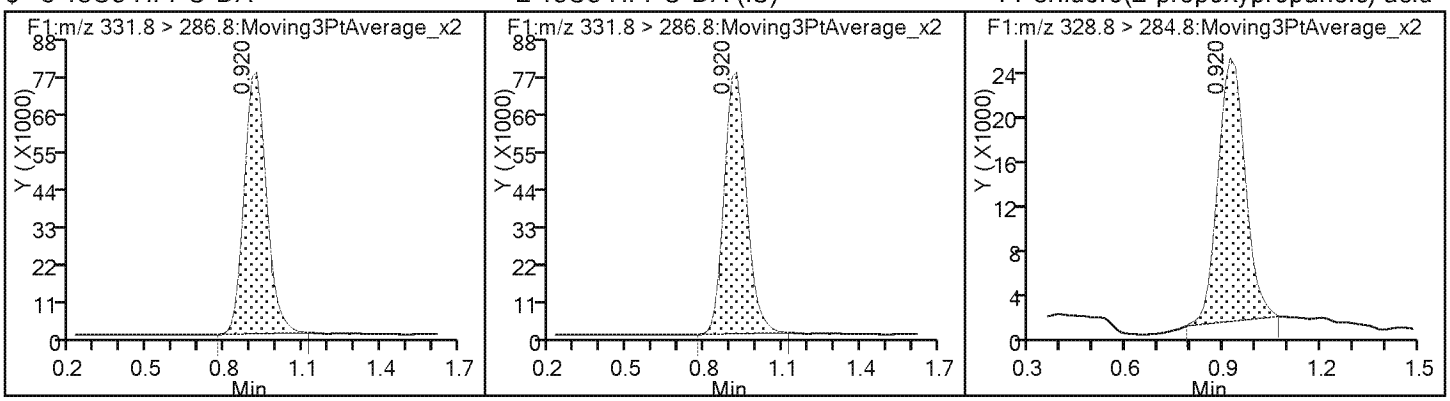
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	442354	5.92	760	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		442354	10.0	760	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	131411	2.76	27.0	

Report Date: 12-Feb-2018 14:31:04 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12045.d				
Injection Date:	12-Feb-2018 12:40:23	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-35-A	Lab Sample ID:	280-105999-35		
Client ID:	FAY-D-3203LUGSL-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	20	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12045.d
Lims ID: 280-105999-C-35-A
Client ID: FAY-D-3203LUGSL-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:40:23 ALS Bottle#: 20 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-35-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	5.92	59.25

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-6859BUTLE-W1-1-013118
Lab Sample ID: 280-105999-36
Matrix: Water
Lab File ID: hfpo718B12046.d
Analysis Method: 8321A
Date Collected: 01/31/2018 16:40
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 283(mL)
Date Analyzed: 02/12/2018 12:43
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.061		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12046.d
Lims ID: 280-105999-C-36-A
Client ID: FAY-D-6859BUTLE-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:43:38 ALS Bottle#: 21 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-36-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:15

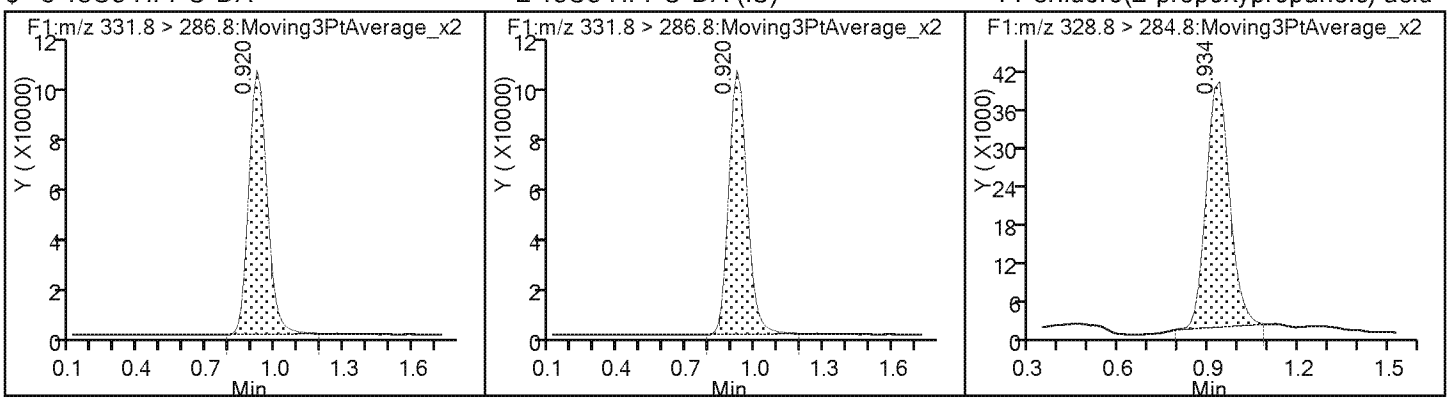
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	541850	7.26	1205	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		541850	10.0	1205	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	201670	3.46	45.3	

Report Date: 12-Feb-2018 14:31:05 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12046.d				
Injection Date:	12-Feb-2018 12:43:38	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-36-A	Lab Sample ID:	280-105999-36		
Client ID:	FAY-D-6859BUTLE-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	21	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12046.d
Lims ID: 280-105999-C-36-A
Client ID: FAY-D-6859BUTLE-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:43:38 ALS Bottle#: 21 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-36-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.26	72.58

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3834HEART-W1-1-013118
Lab Sample ID: 280-105999-37
Matrix: Water
Lab File ID: hfpo718B12048.d
Analysis Method: 8321A
Date Collected: 01/31/2018 09:11
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 284.1(mL)
Date Analyzed: 02/12/2018 12:50
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.012		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	63		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12048.d
Lims ID: 280-105999-C-37-A
Client ID: FAY-D-3834HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:50:06 ALS Bottle#: 22 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-37-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:26

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.988	1.045	-0.057	1.000	473318	6.34	1305	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.988	1.045	-0.057		473318	10.0	1305	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.988	1.056	-0.068	1.000	35800	0.6770	5.8	M

QC Flag Legend

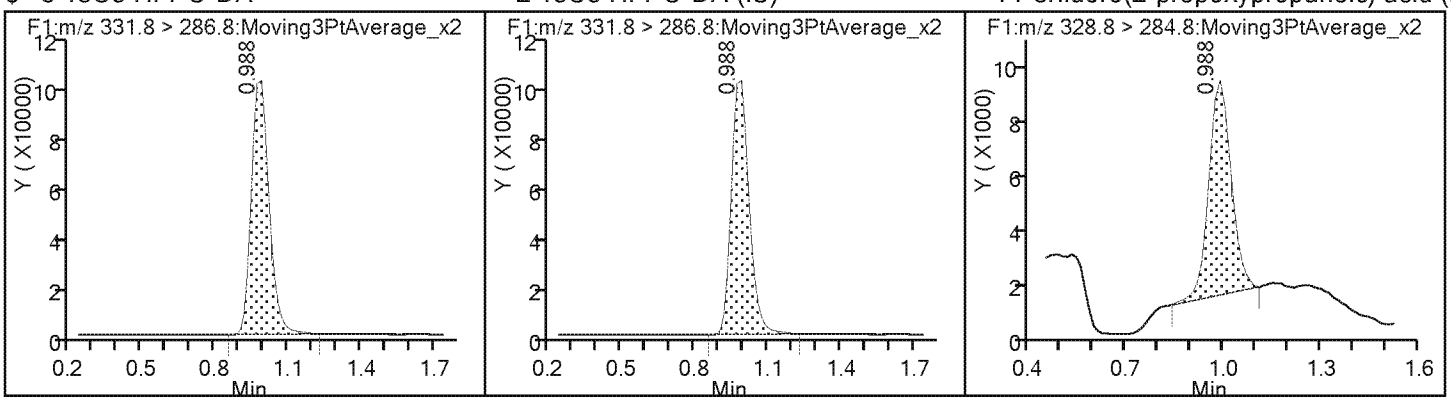
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:31:06 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12048.d				
Injection Date:	12-Feb-2018 12:50:06	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-37-A	Lab Sample ID:	280-105999-37		
Client ID:	FAY-D-3834HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	22	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12048.d
Lims ID: 280-105999-C-37-A
Client ID: FAY-D-3834HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:50:06 ALS Bottle#: 22 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-37-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.34	63.40

Manual Integration/User Assign Peak Report

TestAmerica Denver

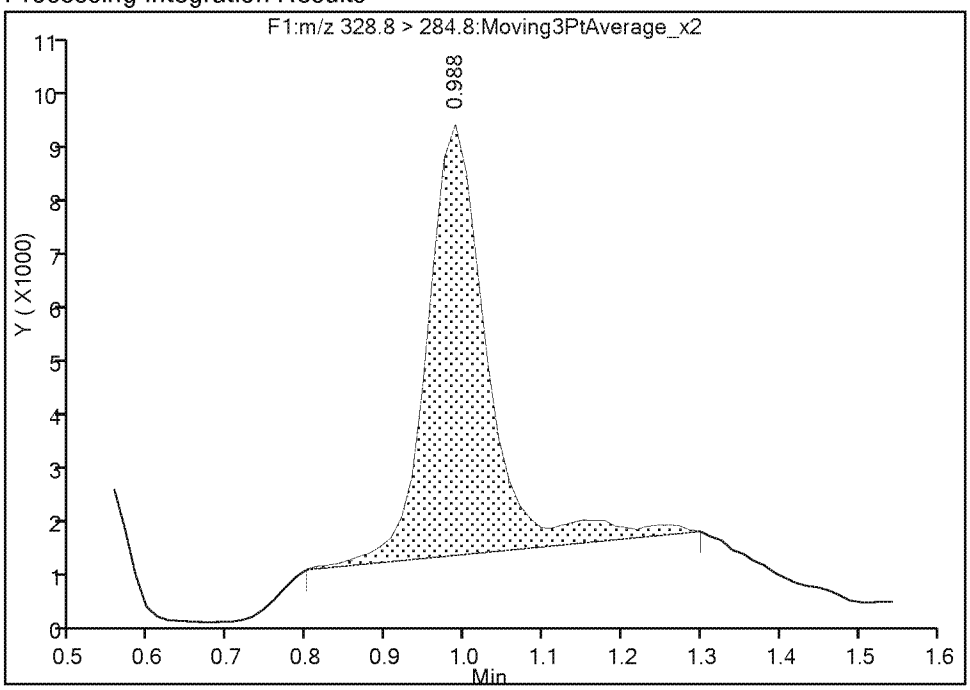
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12048.d				
Injection Date:	12-Feb-2018 12:50:06	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-37-A	Lab Sample ID:	280-105999-37		
Client ID:	FAY-D-3834HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	22	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

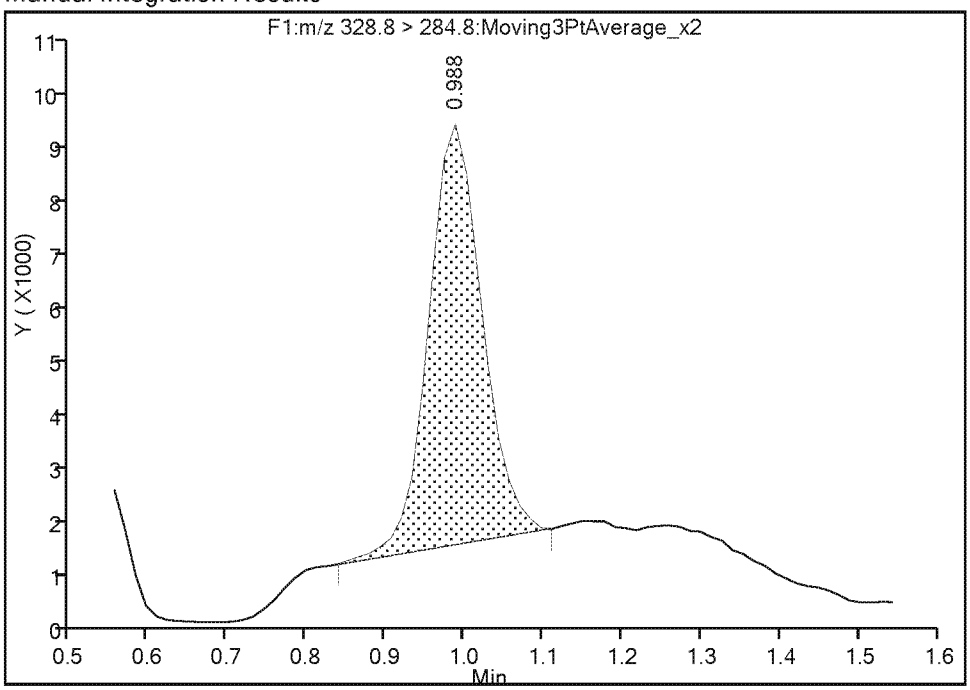
Processing Integration Results

RT: 0.99
Area: 41532
Amount: 0.790878
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 35800
Amount: 0.677038
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:28:25

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3834HEART-W1-2-013118
Lab Sample ID: 280-105999-38
Matrix: Water
Lab File ID: hfpo718B12049.d
Analysis Method: 8321A
Date Collected: 01/31/2018 08:59
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 294.3(mL)
Date Analyzed: 02/12/2018 12:53
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12049.d
Lims ID: 280-105999-A-38-A
Client ID: FAY-D-3834HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:53:21 ALS Bottle#: 23 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-38-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:28

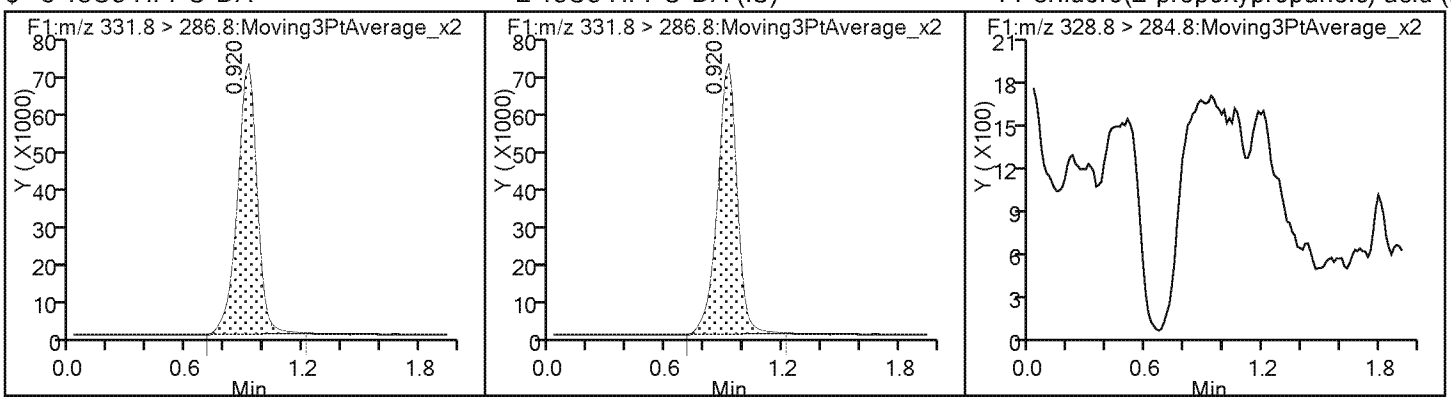
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	486204	6.51	1041	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		486204	10.0	1041	

Report Date: 12-Feb-2018 14:31:07 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12049.d				
Injection Date:	12-Feb-2018 12:53:21	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-38-A	Lab Sample ID:	280-105999-38		
Client ID:	FAY-D-3834HEART-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	23	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12049.d
Lims ID: 280-105999-A-38-A
Client ID: FAY-D-3834HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:53:21 ALS Bottle#: 23 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-38-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.51	65.12

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3845HEART-W1-1-013118
Lab Sample ID: 280-105999-39
Matrix: Water
Lab File ID: hfpo718B12050.d
Analysis Method: 8321A
Date Collected: 01/31/2018 09:31
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 279(mL)
Date Analyzed: 02/12/2018 12:56
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12050.d
Lims ID: 280-105999-A-39-A
Client ID: FAY-D-3845HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:56:37 ALS Bottle#: 24 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-39-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:49

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	483309	6.47	998	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		483309	10.0	998	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.934	1.056	-0.122	1.000	12552	0.2102	1.8	M

QC Flag Legend

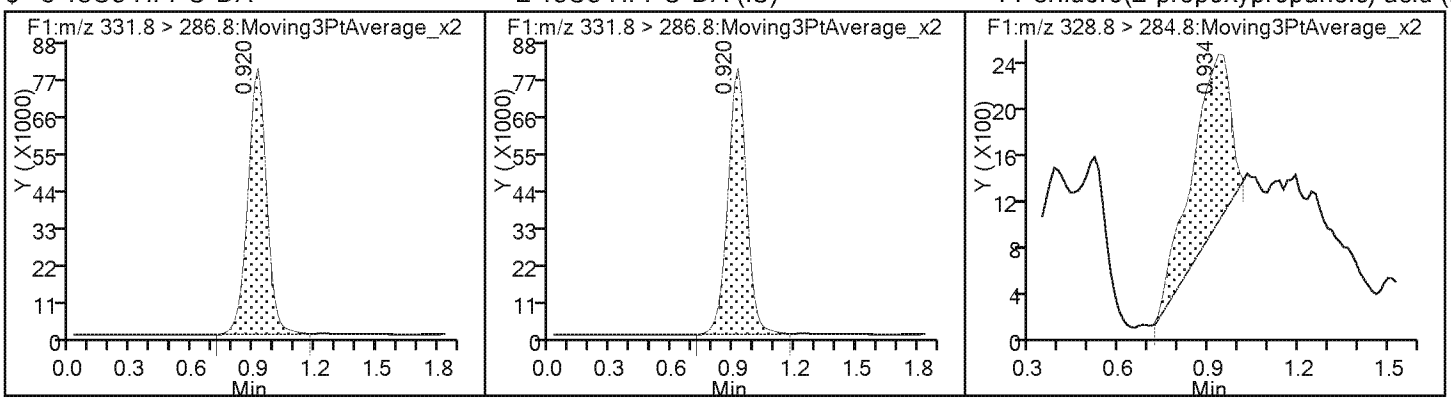
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:31:08 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12050.d				
Injection Date:	12-Feb-2018 12:56:37	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-39-A	Lab Sample ID:	280-105999-39		
Client ID:	FAY-D-3845HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	24	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12050.d
Lims ID: 280-105999-A-39-A
Client ID: FAY-D-3845HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:56:37 ALS Bottle#: 24 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-39-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.47	64.73

Manual Integration/User Assign Peak Report

TestAmerica Denver

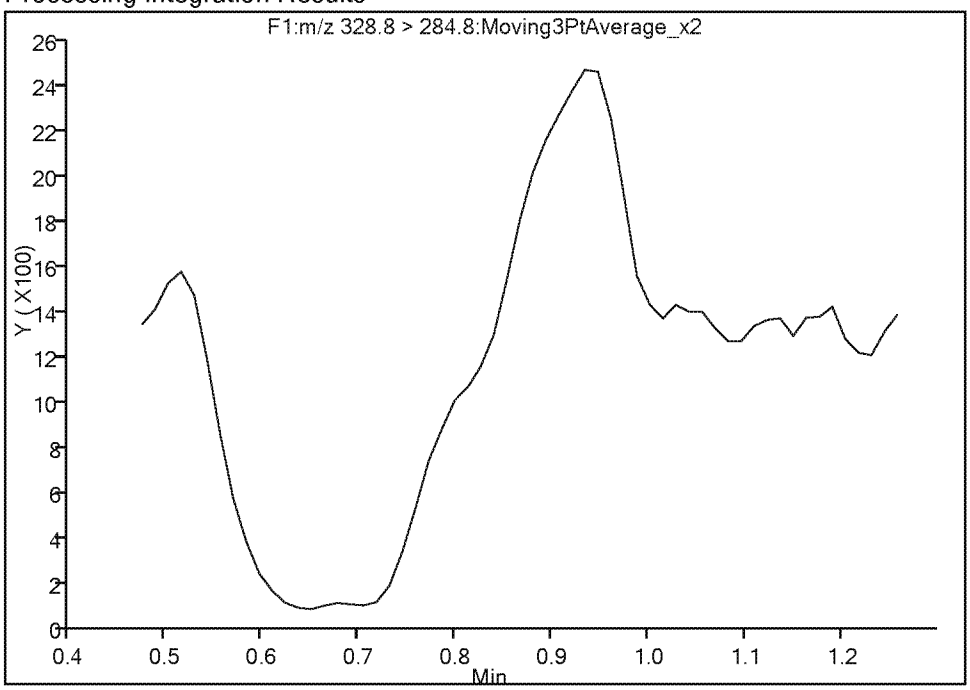
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12050.d				
Injection Date:	12-Feb-2018 12:56:37	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-39-A	Lab Sample ID:	280-105999-39		
Client ID:	FAY-D-3845HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	24	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

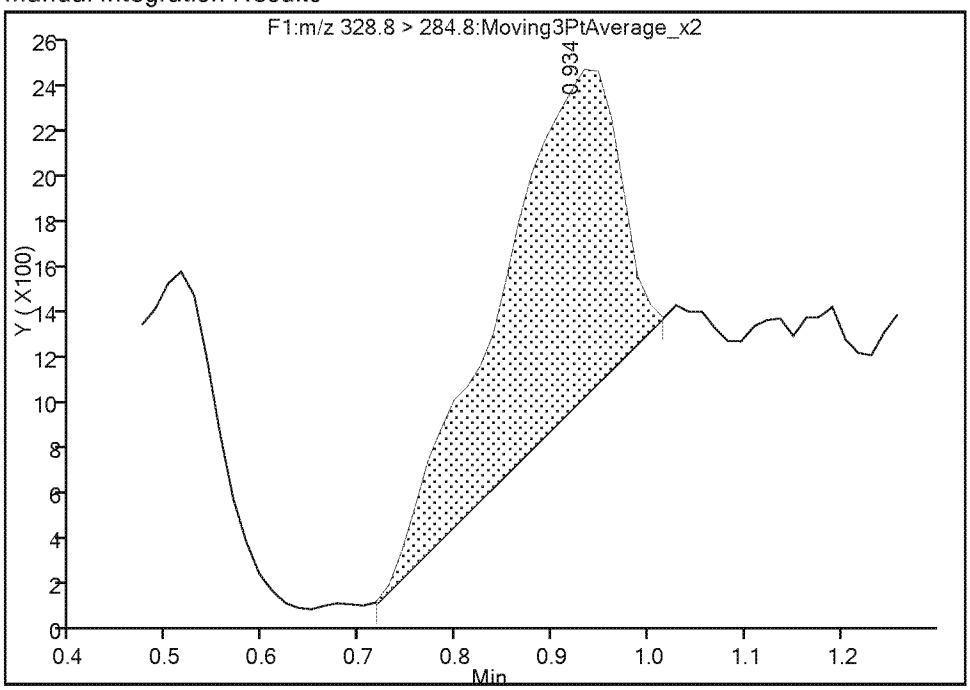
Processing Integration Results

Not Detected
Expected RT: 1.06



Manual Integration Results

RT: 0.93
Area: 12552
Amount: 0.210171
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:28:47
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3845HEART-W1-2-013118
Lab Sample ID: 280-105999-40
Matrix: Water
Lab File ID: hfpo718B12051.d
Analysis Method: 8321A
Date Collected: 01/31/2018 09:35
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 271.2(mL)
Date Analyzed: 02/12/2018 12:59
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12051.d
Lims ID: 280-105999-D-40-A
Client ID: FAY-D-3845HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:59:51 ALS Bottle#: 25 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-40-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:51

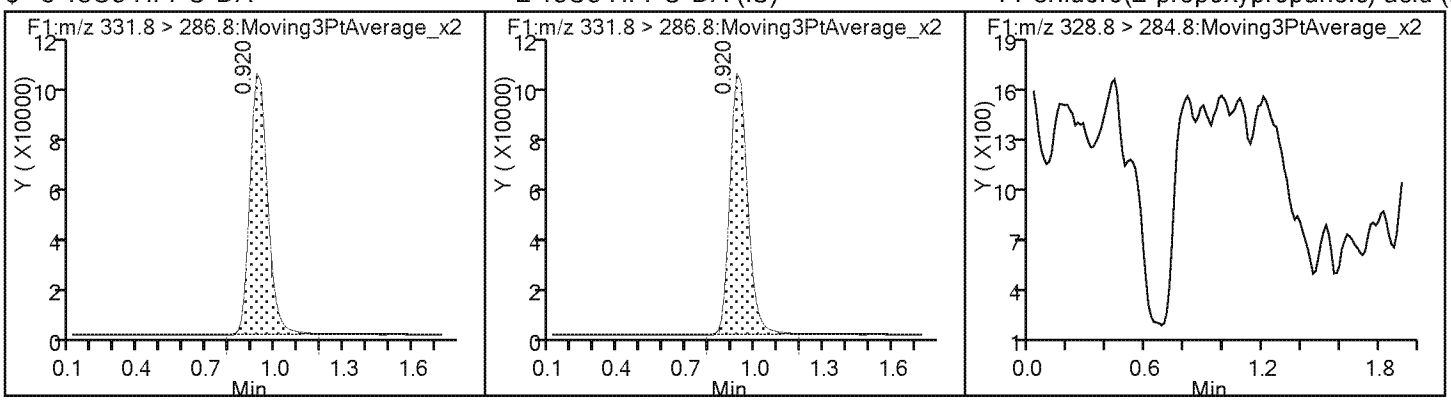
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	499750	6.69	1420	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		499750	10.0	1420	

Report Date: 12-Feb-2018 14:31:09 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12051.d				
Injection Date:	12-Feb-2018 12:59:51	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-40-A	Lab Sample ID:	280-105999-40		
Client ID:	FAY-D-3845HEART-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	25	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12051.d
Lims ID: 280-105999-D-40-A
Client ID: FAY-D-3845HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 12:59:51 ALS Bottle#: 25 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-40-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.69	66.94

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3909HEART-W1-1-013118
Lab Sample ID: 280-105999-41
Matrix: Water
Lab File ID: hfpo718B12052.d
Analysis Method: 8321A
Date Collected: 01/31/2018 09:54
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 278.7(mL)
Date Analyzed: 02/12/2018 13:03
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12052.d
Lims ID: 280-105999-C-41-A
Client ID: FAY-D-3909HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:03:06 ALS Bottle#: 26 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-41-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:54

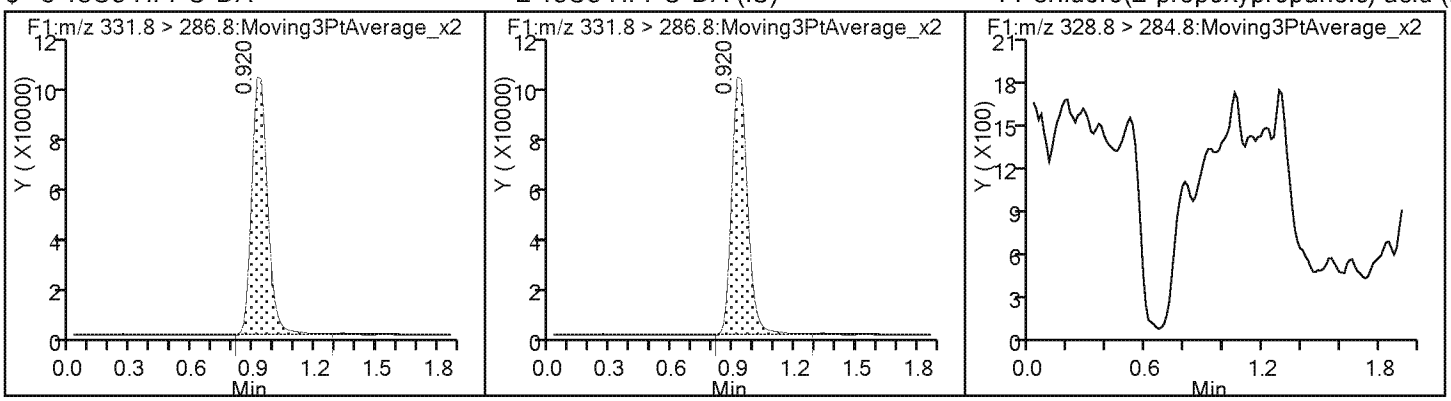
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	488026	6.54	1460	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		488026	10.0	1460	

Report Date: 12-Feb-2018 14:31:10 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12052.d				
Injection Date:	12-Feb-2018 13:03:06	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-41-A	Lab Sample ID:	280-105999-41		
Client ID:	FAY-D-3909HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	26	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12052.d
Lims ID: 280-105999-C-41-A
Client ID: FAY-D-3909HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:03:06 ALS Bottle#: 26 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-41-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.54	65.37

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3909HEART-W1-2-013118
Lab Sample ID: 280-105999-42
Matrix: Water
Lab File ID: hfpo718B12053.d
Analysis Method: 8321A
Date Collected: 01/31/2018 09:56
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 272.4(mL)
Date Analyzed: 02/12/2018 13:06
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	68		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12053.d
Lims ID: 280-105999-C-42-A
Client ID: FAY-D-3909HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:06:22 ALS Bottle#: 27 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-42-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:56

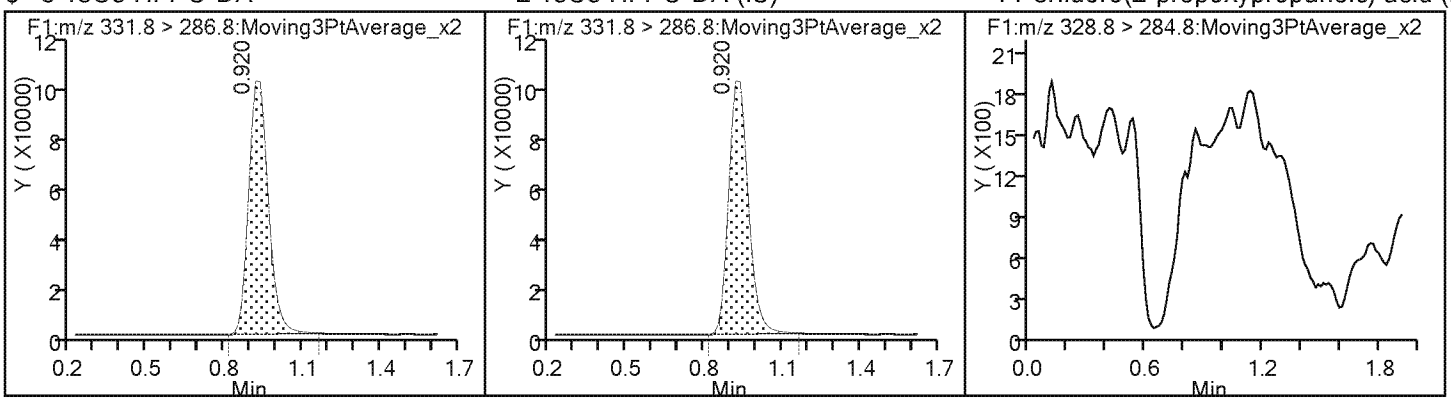
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	507479	6.80	1362	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		507479	10.0	1362	

Report Date: 12-Feb-2018 14:31:11 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12053.d				
Injection Date:	12-Feb-2018 13:06:22	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-42-A	Lab Sample ID:	280-105999-42		
Client ID:	FAY-D-3909HEART-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	27	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12053.d
Lims ID: 280-105999-C-42-A
Client ID: FAY-D-3909HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:06:22 ALS Bottle#: 27 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-42-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.80	67.97

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3911HEART-W1-1-013118
Lab Sample ID: 280-105999-43
Matrix: Water
Lab File ID: hfpo718B12054.d
Analysis Method: 8321A
Date Collected: 01/31/2018 10:12
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 269.3(mL)
Date Analyzed: 02/12/2018 13:09
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12054.d
Lims ID: 280-105999-D-43-A
Client ID: FAY-D-3911HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:09:38 ALS Bottle#: 28 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-43-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:13

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	502926	6.74	1015	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		502926	10.0	1015	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	28301	0.4950	6.1	M

QC Flag Legend

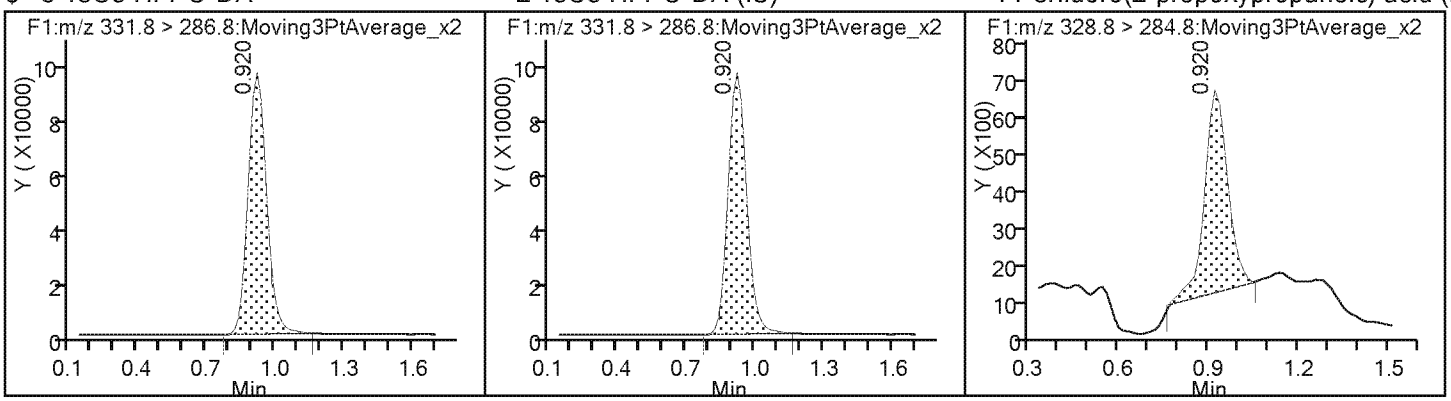
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:31:11 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12054.d				
Injection Date:	12-Feb-2018 13:09:38	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-43-A	Lab Sample ID:	280-105999-43		
Client ID:	FAY-D-3911HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	28	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12054.d
Lims ID: 280-105999-D-43-A
Client ID: FAY-D-3911HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:09:38 ALS Bottle#: 28 Worklist Smp#: 21
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-43-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.74	67.36

Manual Integration/User Assign Peak Report

TestAmerica Denver

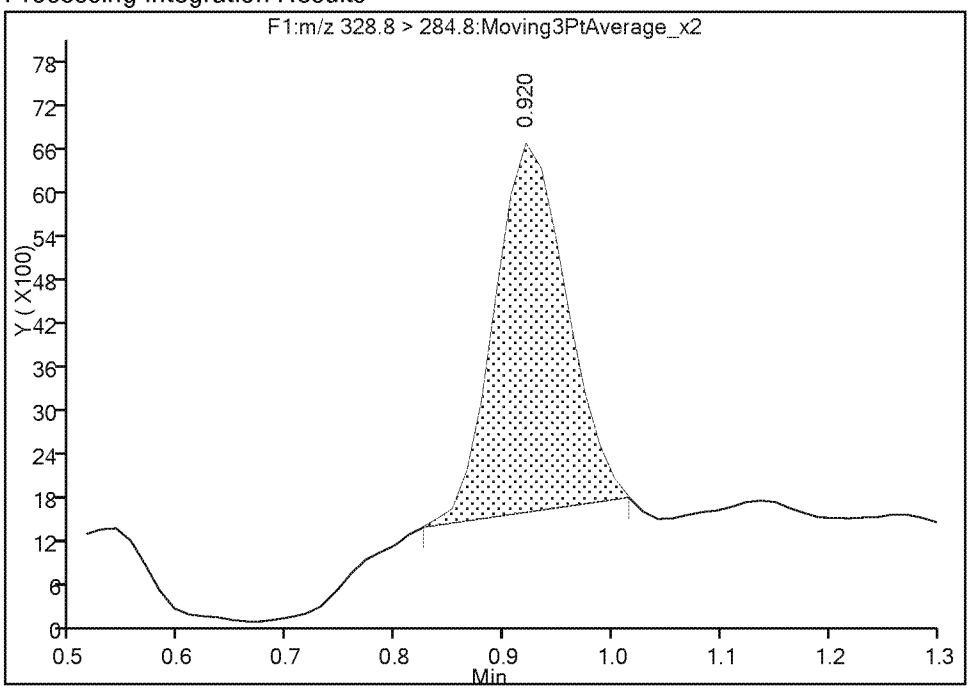
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12054.d				
Injection Date:	12-Feb-2018 13:09:38	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-43-A	Lab Sample ID:	280-105999-43		
Client ID:	FAY-D-3911HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	28	Worklist Smp#:	21
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

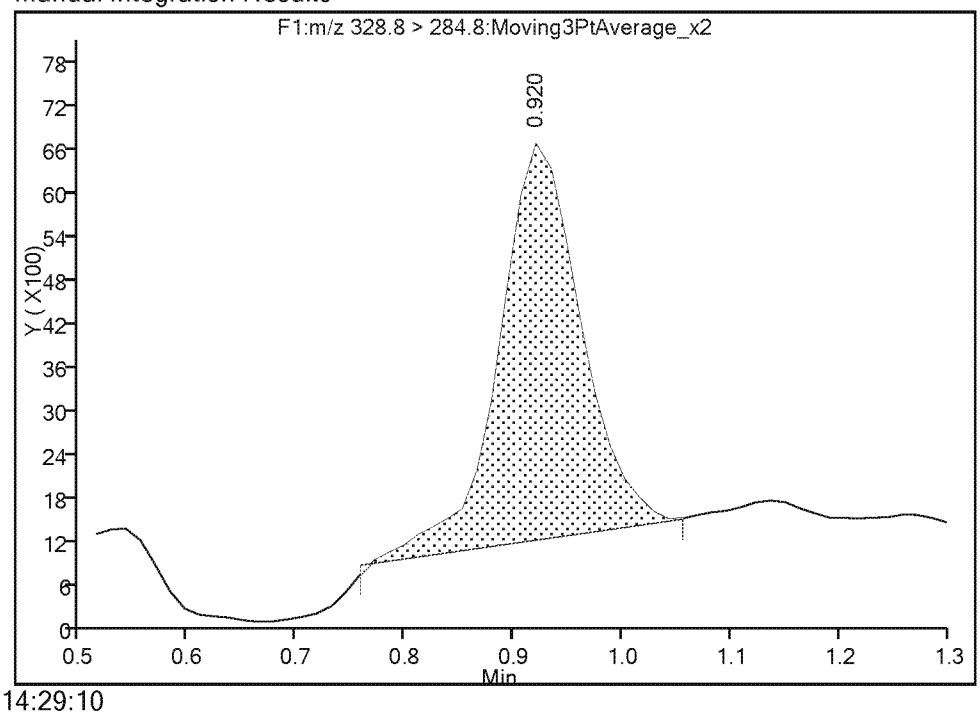
Processing Integration Results

RT: 0.92
Area: 23064
Amount: 0.397130
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 28301
Amount: 0.495016
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:29:10

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3930HEART-W1-1-013118
Lab Sample ID: 280-105999-44
Matrix: Water
Lab File ID: hfpo718B12055.d
Analysis Method: 8321A
Date Collected: 01/31/2018 10:32
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 275.7(mL)
Date Analyzed: 02/12/2018 13:12
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.19		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12055.d
Lims ID: 280-105999-A-44-A
Client ID: FAY-D-3930HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:12:54 ALS Bottle#: 29 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-44-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:15

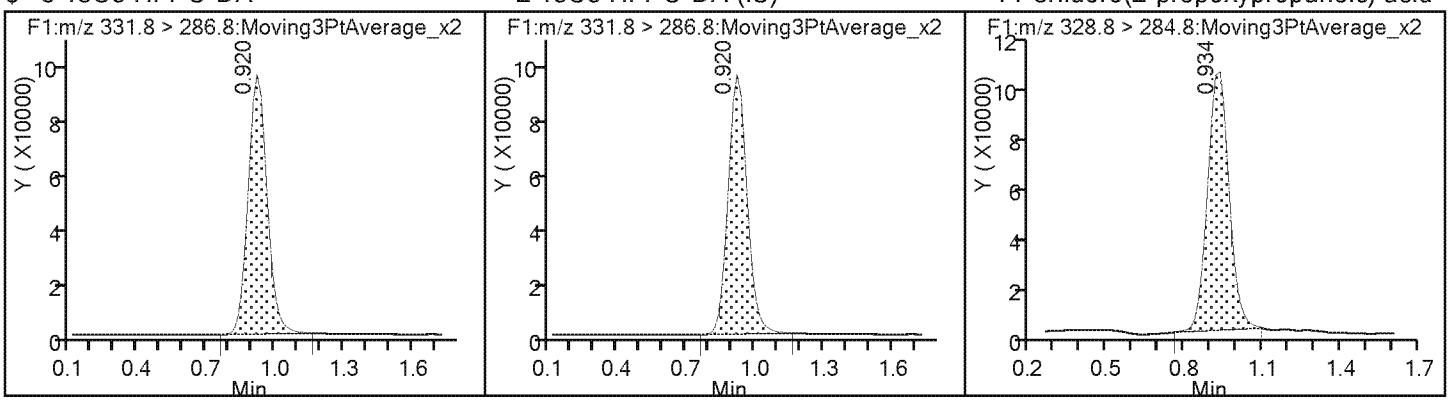
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	502902	6.74	1077	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		502902	10.0	1077	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	560116	10.4	108	

Report Date: 12-Feb-2018 14:31:12 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12055.d				
Injection Date:	12-Feb-2018 13:12:54	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-44-A	Lab Sample ID:	280-105999-44		
Client ID:	FAY-D-3930HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	29	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12055.d
Lims ID: 280-105999-A-44-A
Client ID: FAY-D-3930HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:12:54 ALS Bottle#: 29 Worklist Smp#: 22
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-44-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.74	67.36

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3930HEART-W1-2-013118
Lab Sample ID: 280-105999-45
Matrix: Water
Lab File ID: hfpo718B12056.d
Analysis Method: 8321A
Date Collected: 01/31/2018 10:37
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 273.9(mL)
Date Analyzed: 02/12/2018 13:16
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.19		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12056.d
Lims ID: 280-105999-C-45-A
Client ID: FAY-D-3930HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:16:09 ALS Bottle#: 30 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-45-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:18

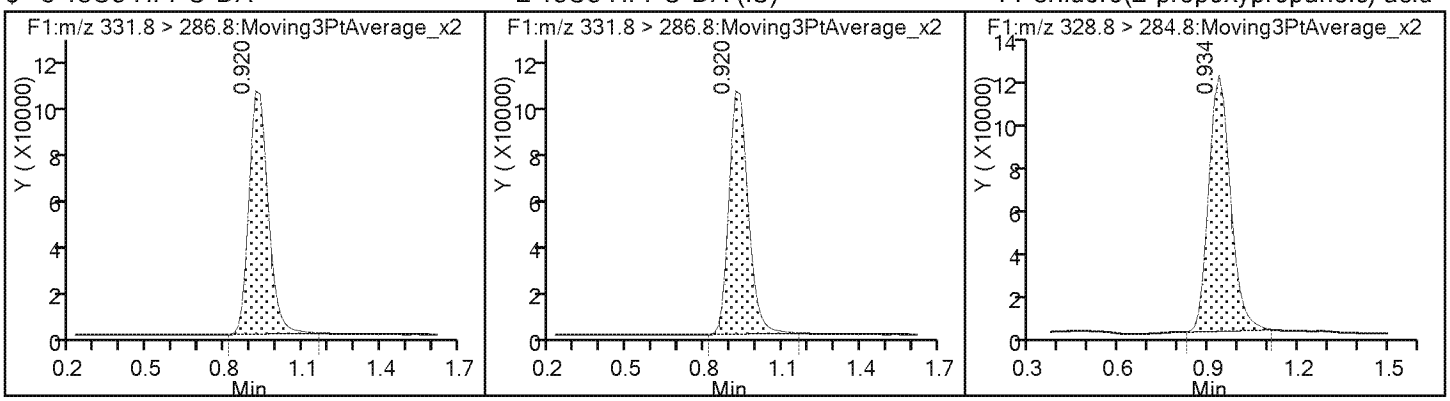
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	517633	6.93	1329	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		517633	10.0	1329	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	582329	10.5	136	

Report Date: 12-Feb-2018 14:31:14 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12056.d				
Injection Date:	12-Feb-2018 13:16:09	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-45-A	Lab Sample ID:	280-105999-45		
Client ID:	FAY-D-3930HEART-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	30	Worklist Smp#:	23
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12056.d
Lims ID: 280-105999-C-45-A
Client ID: FAY-D-3930HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:16:09 ALS Bottle#: 30 Worklist Smp#: 23
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-45-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.93	69.33

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3933HEART-W1-1-013118
Lab Sample ID: 280-105999-46
Matrix: Water
Lab File ID: hfpo718B12057.d
Analysis Method: 8321A
Date Collected: 01/31/2018 10:59
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 269.4(mL)
Date Analyzed: 02/12/2018 13:19
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	66		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12057.d
Lims ID: 280-105999-A-46-A
Client ID: FAY-D-3933HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:19:25 ALS Bottle#: 31 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-46-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:21

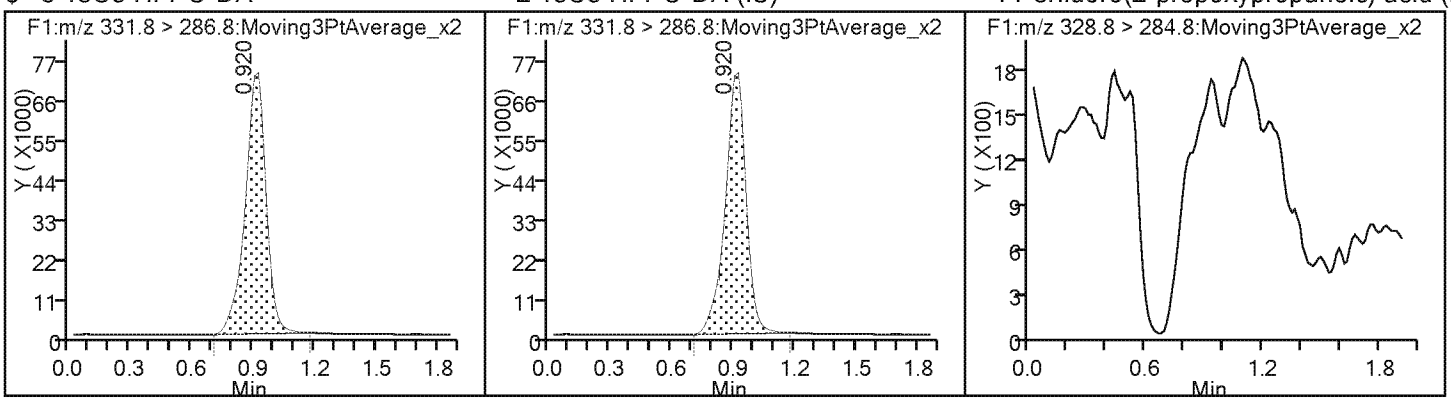
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	491691	6.59	850	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		491691	10.0	850	

Report Date: 12-Feb-2018 14:31:14 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12057.d				
Injection Date:	12-Feb-2018 13:19:25	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-46-A	Lab Sample ID:	280-105999-46		
Client ID:	FAY-D-3933HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	31	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12057.d
Lims ID: 280-105999-A-46-A
Client ID: FAY-D-3933HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:19:25 ALS Bottle#: 31 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-46-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.59	65.86

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3933HEART-W1-2-013118
Lab Sample ID: 280-105999-47
Matrix: Water
Lab File ID: hfpo718B12059.d
Analysis Method: 8321A
Date Collected: 01/31/2018 11:02
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 275.9(mL)
Date Analyzed: 02/12/2018 13:25
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	68		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12059.d
Lims ID: 280-105999-B-47-A
Client ID: FAY-D-3933HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:25:57 ALS Bottle#: 32 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-47-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:26

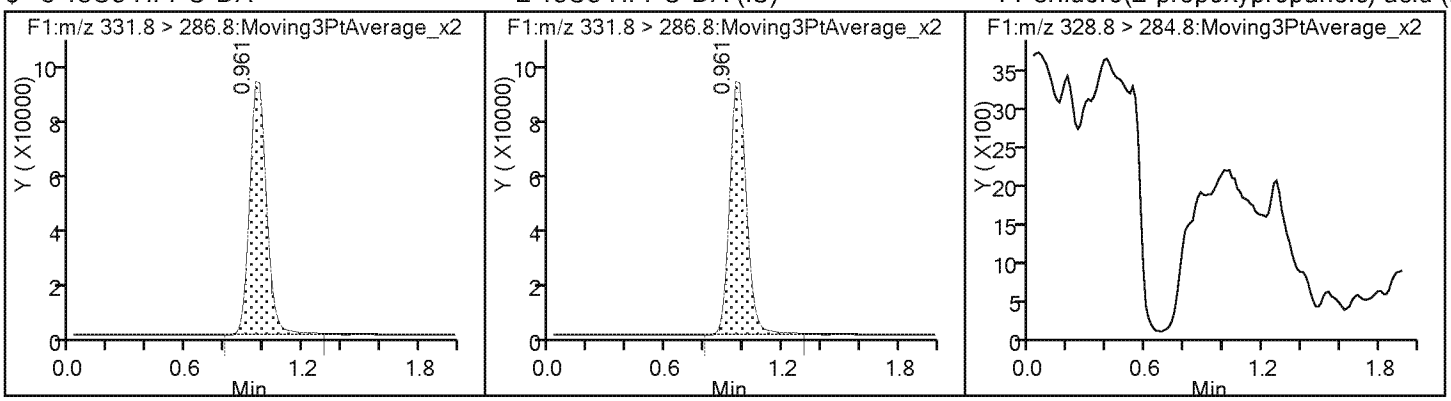
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	509347	6.82	1697	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		509347	10.0	1697	

Report Date: 12-Feb-2018 14:31:17 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12059.d				
Injection Date:	12-Feb-2018 13:25:57	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-B-47-A	Lab Sample ID:	280-105999-47		
Client ID:	FAY-D-3933HEART-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	32	Worklist Smp#:	26
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12059.d
Lims ID: 280-105999-B-47-A
Client ID: FAY-D-3933HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 13:25:57 ALS Bottle#: 32 Worklist Smp#: 26
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-B-47-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.82	68.22

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3754HEART-W1-1-013018
Lab Sample ID: 280-105999-48
Matrix: Water
Lab File ID: hfpo718B12060.d
Analysis Method: 8321A
Date Collected: 01/30/2018 14:56
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 260.4(mL)
Date Analyzed: 02/12/2018 13:29
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.015		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	64		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12060.d
Lims ID: 280-105999-A-48-A
Client ID: FAY-D-3754HEART-W1-1-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 13:29:12 ALS Bottle#: 33 Worklist Smp#: 27
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-48-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:29

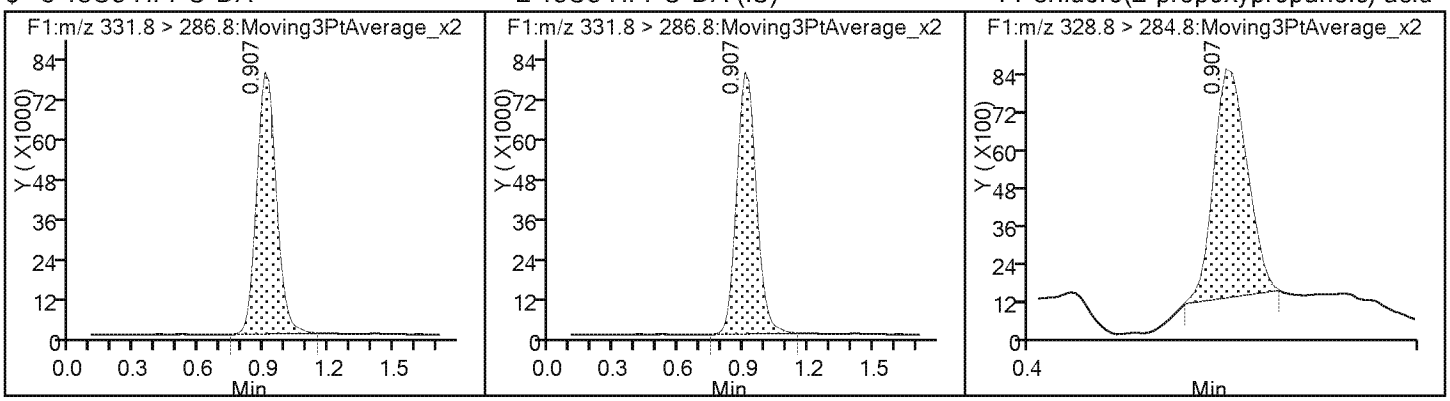
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	480093	6.43	781	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		480093	10.0	781	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	42675	0.8016	9.2	

Report Date: 12-Feb-2018 14:31:18 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12060.d				
Injection Date:	12-Feb-2018 13:29:12	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-48-A	Lab Sample ID:	280-105999-48		
Client ID:	FAY-D-3754HEART-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	33	Worklist Smp#:	27
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12060.d
Lims ID: 280-105999-A-48-A
Client ID: FAY-D-3754HEART-W1-1-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 13:29:12 ALS Bottle#: 33 Worklist Smp#: 27
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-48-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.43	64.30

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3808HEART-W1-1-013018
Lab Sample ID: 280-105999-49
Matrix: Water
Lab File ID: hfpo718B12061.d
Analysis Method: 8321A
Date Collected: 01/30/2018 15:59
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 279.1(mL)
Date Analyzed: 02/12/2018 13:32
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12061.d
Lims ID: 280-105999-A-49-A
Client ID: FAY-D-3808HEART-W1-1-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 13:32:28 ALS Bottle#: 34 Worklist Smp#: 28
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-49-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:39

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	498669	6.68	891	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		498669	10.0	891	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	32575	0.5801	4.9	M

QC Flag Legend

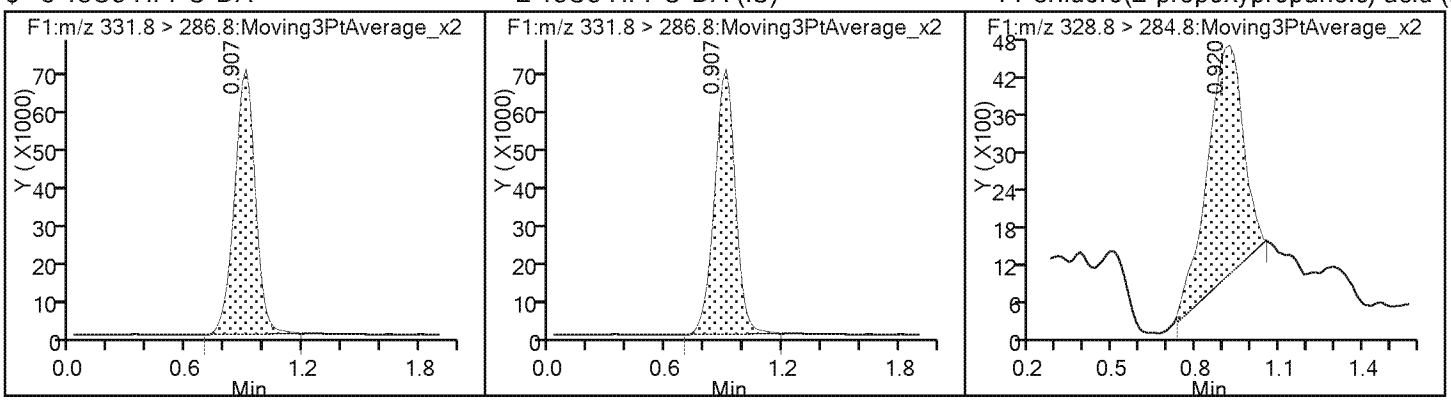
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:31:19 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12061.d				
Injection Date:	12-Feb-2018 13:32:28	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-49-A	Lab Sample ID:	280-105999-49		
Client ID:	FAY-D-3808HEART-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	34	Worklist Smp#:	28
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12061.d
Lims ID: 280-105999-A-49-A
Client ID: FAY-D-3808HEART-W1-1-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 13:32:28 ALS Bottle#: 34 Worklist Smp#: 28
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-49-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.68	66.79

Manual Integration/User Assign Peak Report

TestAmerica Denver

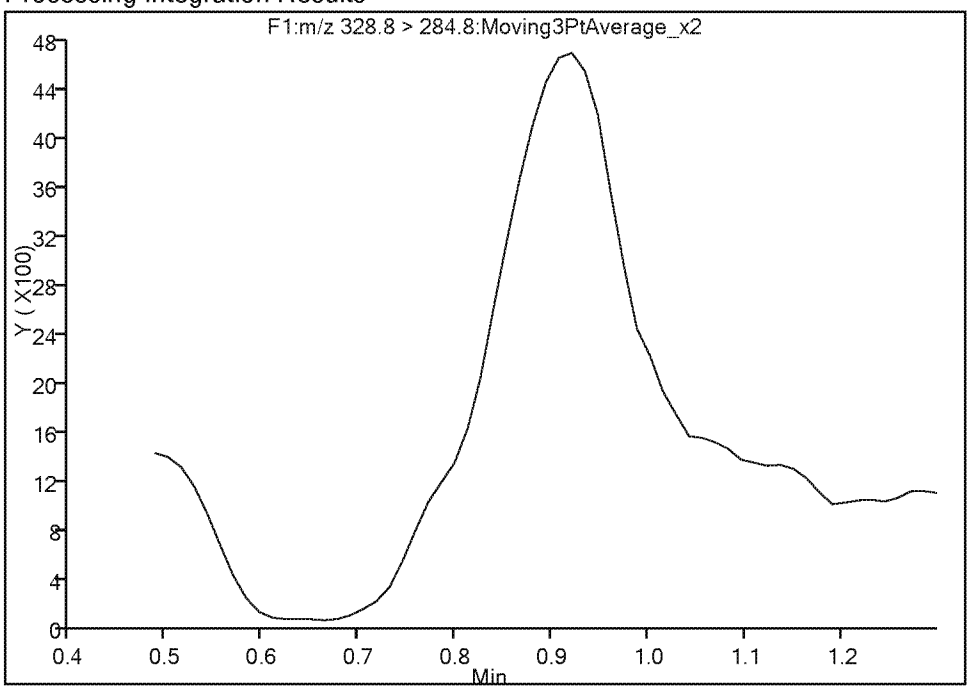
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12061.d				
Injection Date:	12-Feb-2018 13:32:28	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-49-A	Lab Sample ID:	280-105999-49		
Client ID:	FAY-D-3808HEART-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	34	Worklist Smp#:	28
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

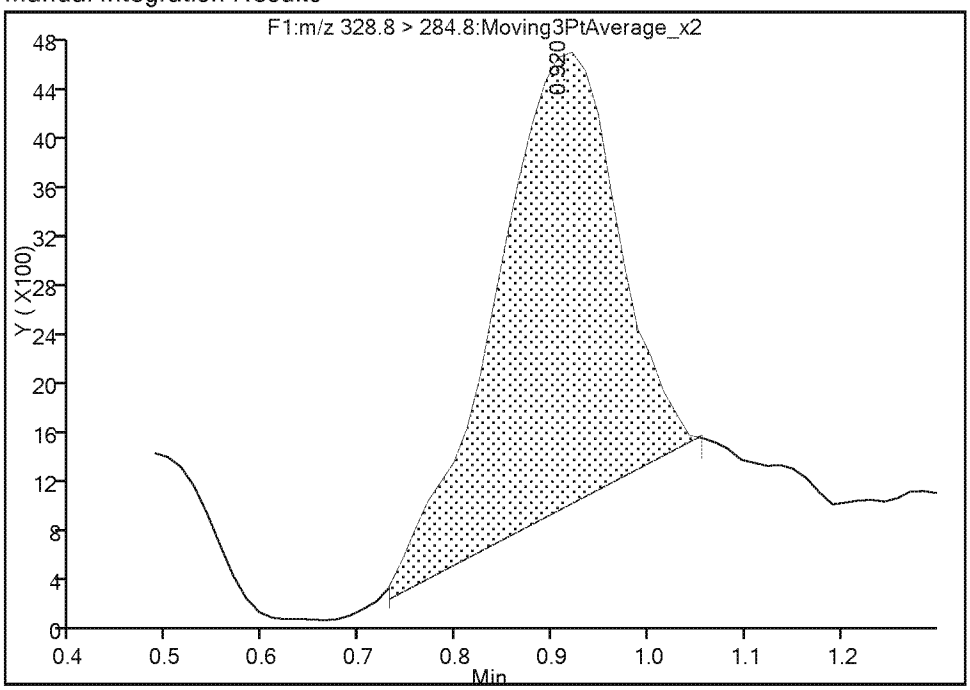
Not Detected
Expected RT: 1.06

Processing Integration Results



Manual Integration Results

RT: 0.92
Area: 32575
Amount: 0.580099
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:29:37
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3808HEART-W1-2-013018
Lab Sample ID: 280-105999-50
Matrix: Water
Lab File ID: hfpo718B12062.d
Analysis Method: 8321A
Date Collected: 01/30/2018 16:01
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 278.9(mL)
Date Analyzed: 02/12/2018 13:35
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	72		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12062.d
Lims ID: 280-105999-A-50-A
Client ID: FAY-D-3808HEART-W1-2-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 13:35:44 ALS Bottle#: 35 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-50-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:49

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	535626	7.17	1679	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		535626	10.0	1679	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.934	1.056	-0.122	1.000	6901	0.0872	1.9	M

QC Flag Legend

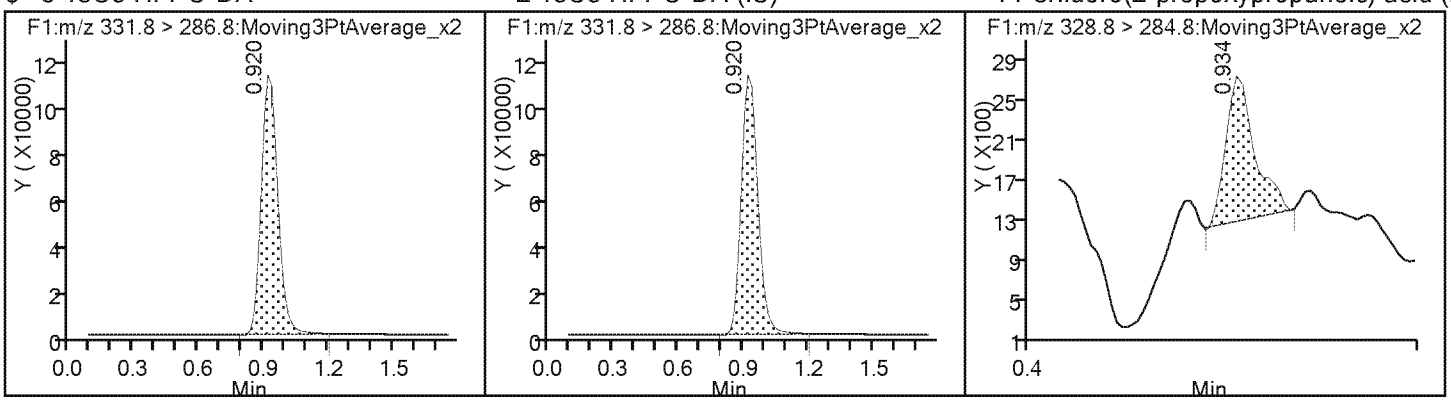
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:31:20 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12062.d				
Injection Date:	12-Feb-2018 13:35:44	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-50-A	Lab Sample ID:	280-105999-50		
Client ID:	FAY-D-3808HEART-W1-2-013018				
Operator ID:	JBH	ALS Bottle#:	35	Worklist Smp#:	29
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12062.d
Lims ID: 280-105999-A-50-A
Client ID: FAY-D-3808HEART-W1-2-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 13:35:44 ALS Bottle#: 35 Worklist Smp#: 29
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-50-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.17	71.74

Manual Integration/User Assign Peak Report

TestAmerica Denver

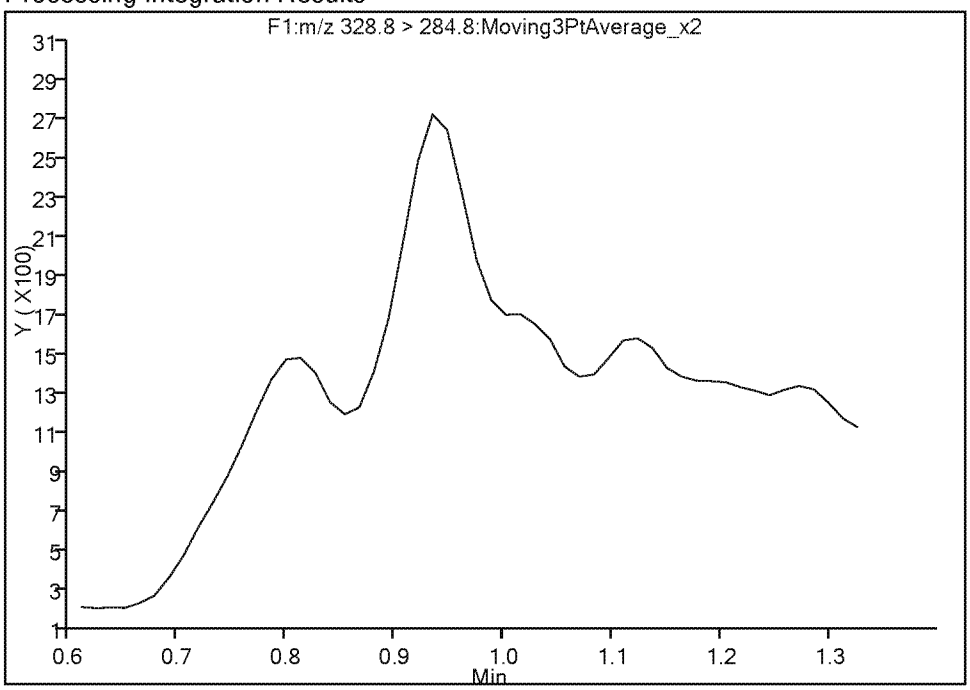
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12062.d				
Injection Date:	12-Feb-2018 13:35:44	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-50-A	Lab Sample ID:	280-105999-50		
Client ID:	FAY-D-3808HEART-W1-2-013018				
Operator ID:	JBH	ALS Bottle#:	35	Worklist Smp#:	29
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

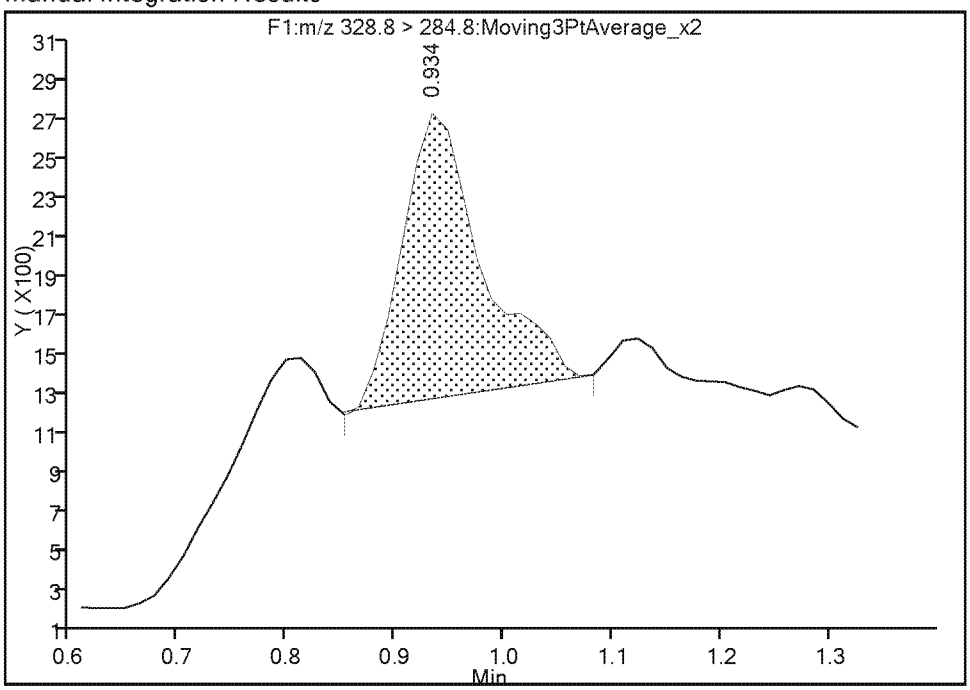
Processing Integration Results

Not Detected
Expected RT: 1.06



Manual Integration Results

RT: 0.93
Area: 6901
Amount: 0.087150
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:29:47
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3775HEART-W1-1-013018
Lab Sample ID: 280-105999-51
Matrix: Water
Lab File ID: hfpo718B12072.d
Analysis Method: 8321A
Date Collected: 01/30/2018 16:16
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 275.9(mL)
Date Analyzed: 02/12/2018 14:08
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.080		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12072.d
Lims ID: 280-105999-A-51-A
Client ID: FAY-D-3775HEART-W1-1-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 14:08:24 ALS Bottle#: 44 Worklist Smp#: 39
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-51-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:23

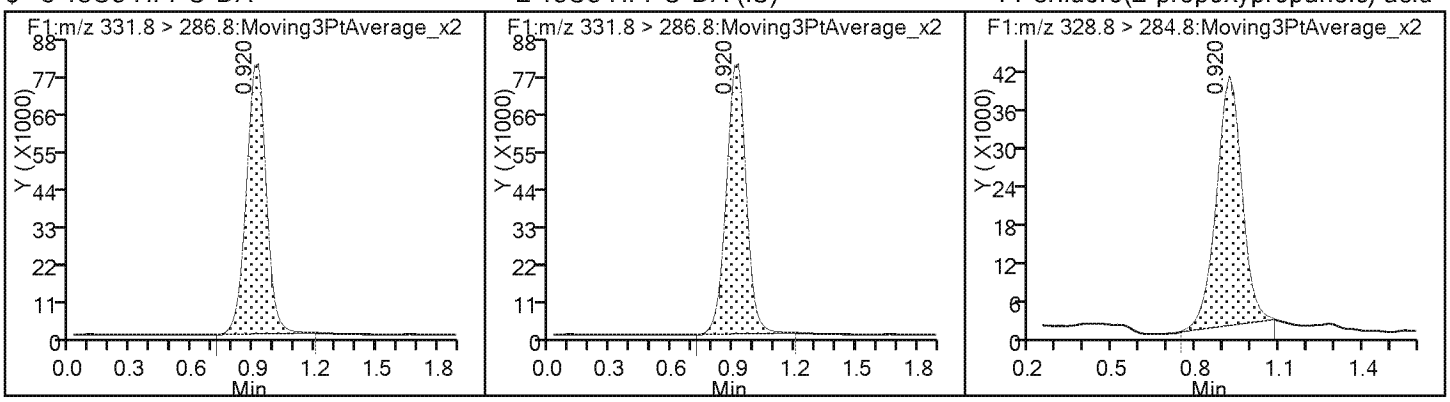
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	513160	6.87	1240	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		513160	10.0	1240	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	241858	4.40	43.7	

Report Date: 12-Feb-2018 14:31:28 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12072.d				
Injection Date:	12-Feb-2018 14:08:24	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-51-A	Lab Sample ID:	280-105999-51		
Client ID:	FAY-D-3775HEART-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	44	Worklist Smp#:	39
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12072.d
Lims ID: 280-105999-A-51-A
Client ID: FAY-D-3775HEART-W1-1-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 14:08:24 ALS Bottle#: 44 Worklist Smp#: 39
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-51-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.87	68.73

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3825HEART-W1-1-013118
Lab Sample ID: 280-105999-52
Matrix: Water
Lab File ID: hfpo718B12073.d
Analysis Method: 8321A
Date Collected: 01/31/2018 08:45
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 270(mL)
Date Analyzed: 02/12/2018 14:11
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.13		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	69		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12073.d
Lims ID: 280-105999-D-52-A
Client ID: FAY-D-3825HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:11:40 ALS Bottle#: 45 Worklist Smp#: 40
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-52-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:27

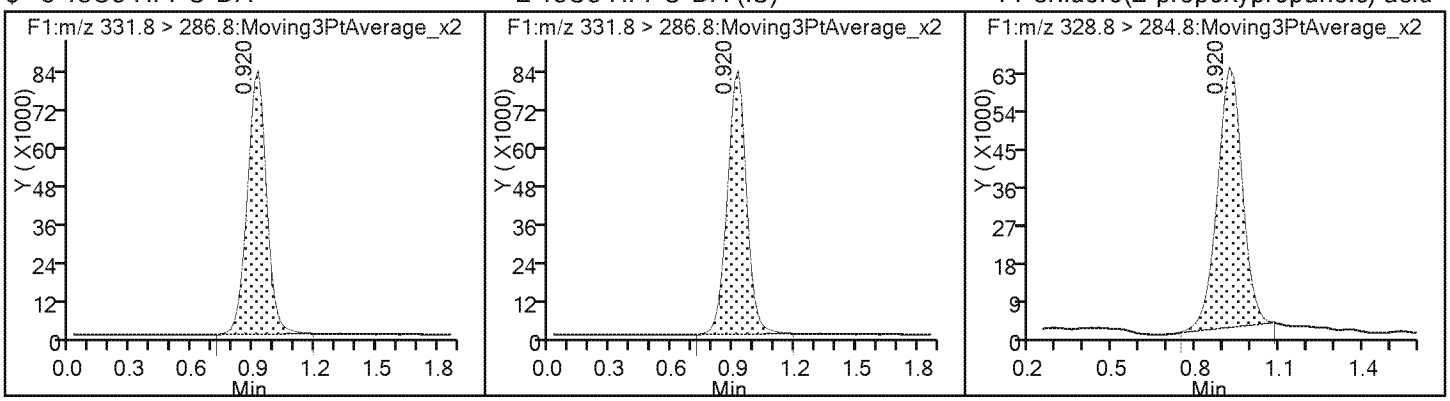
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	518615	6.95	963	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		518615	10.0	963	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	374366	6.75	60.9	

Report Date: 12-Feb-2018 14:31:29 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12073.d				
Injection Date:	12-Feb-2018 14:11:40	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-52-A	Lab Sample ID:	280-105999-52		
Client ID:	FAY-D-3825HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	45	Worklist Smp#:	40
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12073.d
Lims ID: 280-105999-D-52-A
Client ID: FAY-D-3825HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:11:40 ALS Bottle#: 45 Worklist Smp#: 40
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-52-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.95	69.46

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3825HEART-W1-2-013018
Lab Sample ID: 280-105999-53
Matrix: Water
Lab File ID: hfpo718B12075.d
Analysis Method: 8321A
Date Collected: 01/30/2018 16:29
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 271.3(mL)
Date Analyzed: 02/12/2018 14:18
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.13		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	71		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12075.d
Lims ID: 280-105999-A-53-A
Client ID: FAY-D-3825HEART-W1-2-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 14:18:12 ALS Bottle#: 46 Worklist Smp#: 42
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-53-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:35

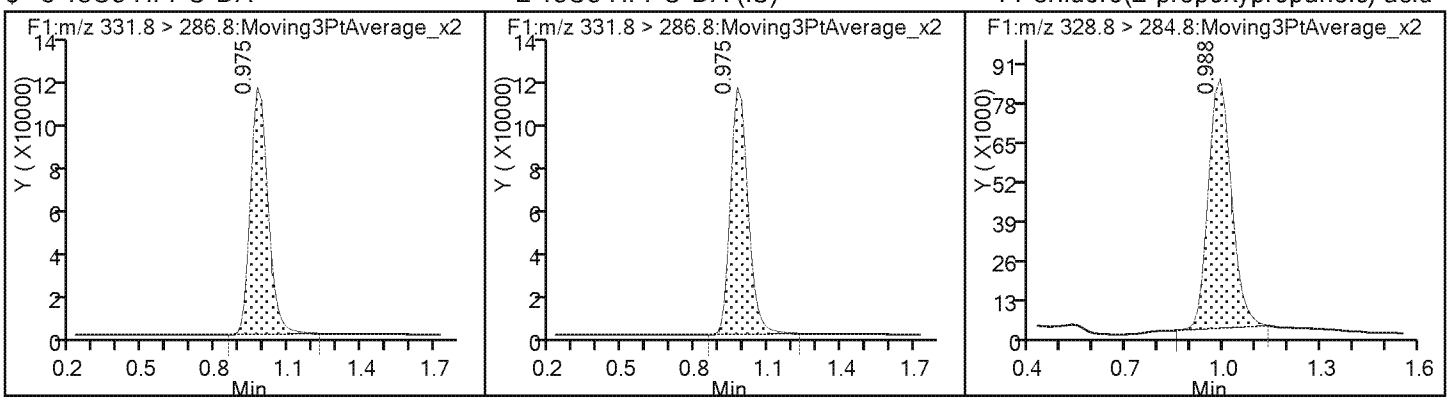
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	529139	7.09	1371	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		529139	10.0	1371	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.988	1.056	-0.068	1.000	397612	7.03	57.4	

Report Date: 12-Feb-2018 14:31:31 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12075.d				
Injection Date:	12-Feb-2018 14:18:12	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-53-A	Lab Sample ID:	280-105999-53		
Client ID:	FAY-D-3825HEART-W1-2-013018				
Operator ID:	JBH	ALS Bottle#:	46	Worklist Smp#:	42
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12075.d
Lims ID: 280-105999-A-53-A
Client ID: FAY-D-3825HEART-W1-2-013018
Sample Type: Client
Inject. Date: 12-Feb-2018 14:18:12 ALS Bottle#: 46 Worklist Smp#: 42
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-53-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.09	70.87

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3934HEART-W1-1-013118
Lab Sample ID: 280-105999-54
Matrix: Water
Lab File ID: hfpo718B12076.d
Analysis Method: 8321A
Date Collected: 01/31/2018 10:49
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 283.7(mL)
Date Analyzed: 02/12/2018 14:21
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.012		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	72		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12076.d
Lims ID: 280-105999-D-54-A
Client ID: FAY-D-3934HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:21:30 ALS Bottle#: 47 Worklist Smp#: 43
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-54-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:50:54

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	538802	7.22	1052	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		538802	10.0	1052	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	41736	0.6942	6.2	M

QC Flag Legend

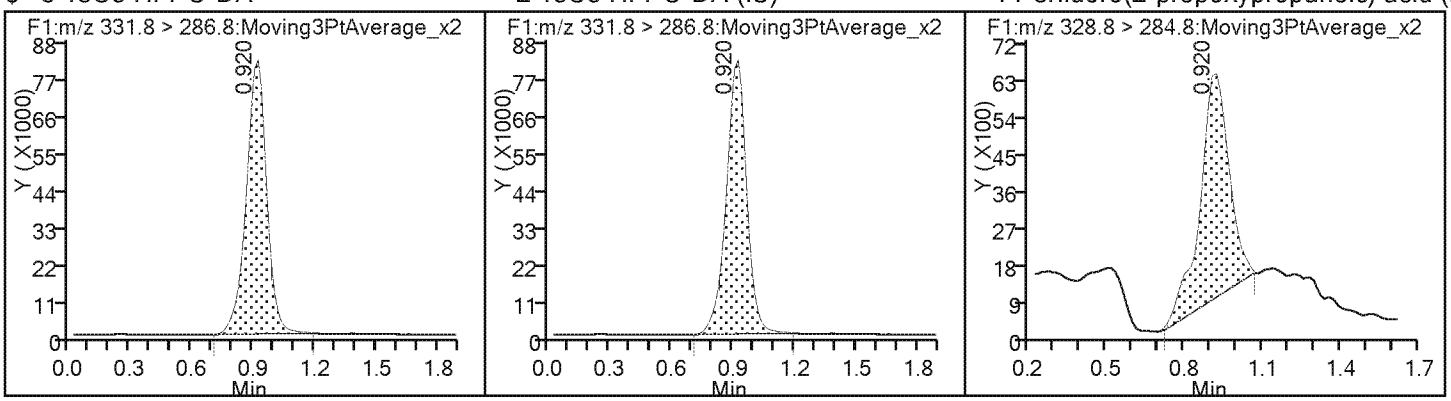
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:51:36 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12076.d				
Injection Date:	12-Feb-2018 14:21:30	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-54-A	Lab Sample ID:	280-105999-54		
Client ID:	FAY-D-3934HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	47	Worklist Smp#:	43
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12076.d
Lims ID: 280-105999-D-54-A
Client ID: FAY-D-3934HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:21:30 ALS Bottle#: 47 Worklist Smp#: 43
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-54-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:50:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.22	72.17

Manual Integration/User Assign Peak Report

TestAmerica Denver

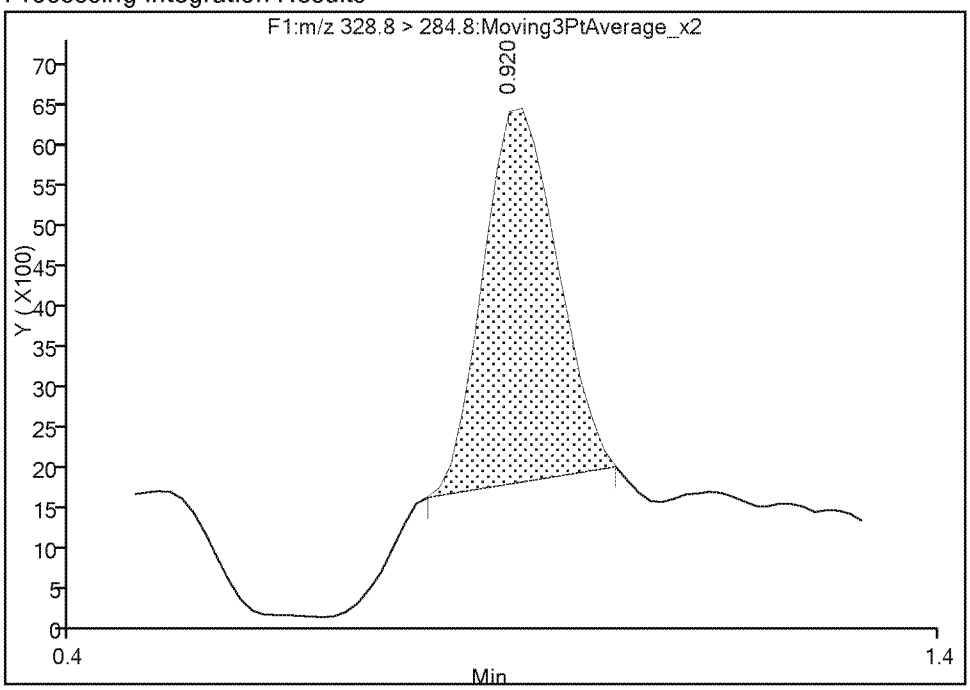
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12076.d				
Injection Date:	12-Feb-2018 14:21:30	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-54-A	Lab Sample ID:	280-105999-54		
Client ID:	FAY-D-3934HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	47	Worklist Smp#:	43
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

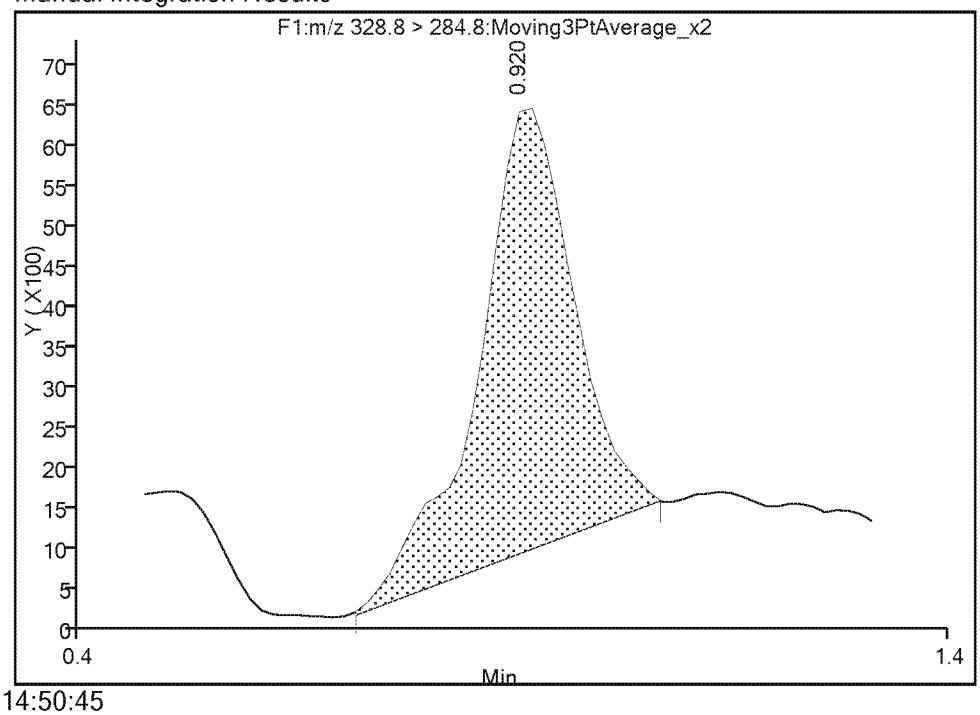
Processing Integration Results

RT: 0.92
Area: 27249
Amount: 0.441440
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 41736
Amount: 0.694189
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:50:45

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3926HEART-W1-1-013118
Lab Sample ID: 280-105999-55
Matrix: Water
Lab File ID: hfpo718B12077.d
Analysis Method: 8321A
Date Collected: 01/31/2018 11:28
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 275.6(mL)
Date Analyzed: 02/12/2018 14:24
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	71		50-200

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12077.d
Lims ID: 280-105999-A-55-A
Client ID: FAY-D-3926HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:24:47 ALS Bottle#: 48 Worklist Smp#: 44
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-55-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:50:57

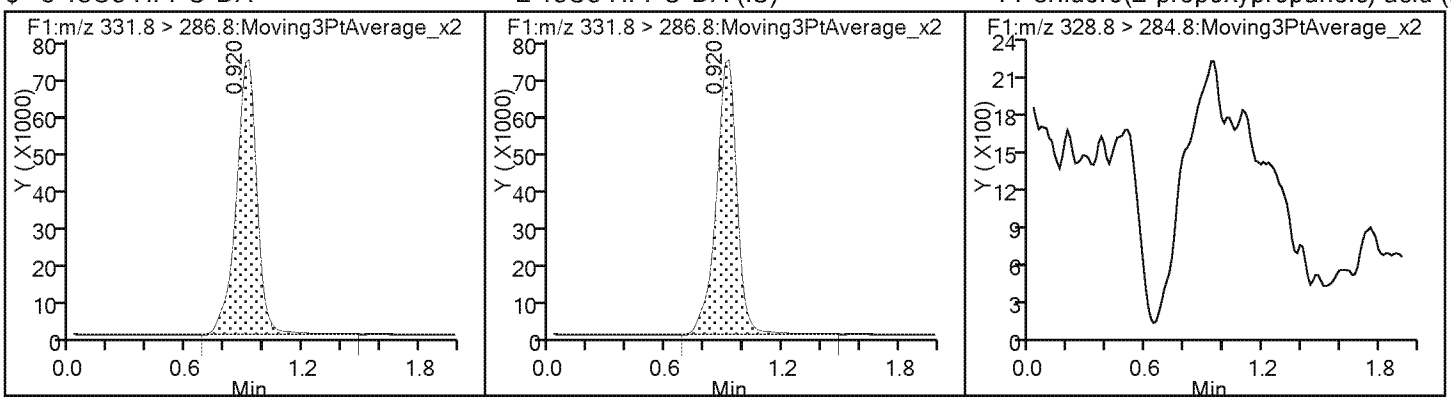
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	530796	7.11	1699	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		530796	10.0	1699	

Report Date: 12-Feb-2018 14:51:37 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12077.d				
Injection Date:	12-Feb-2018 14:24:47	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-55-A	Lab Sample ID:	280-105999-55		
Client ID:	FAY-D-3926HEART-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	48	Worklist Smp#:	44
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12077.d
Lims ID: 280-105999-A-55-A
Client ID: FAY-D-3926HEART-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:24:47 ALS Bottle#: 48 Worklist Smp#: 44
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-55-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:50:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.11	71.10

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3926HEART-W1-2-013118
Lab Sample ID: 280-105999-56
Matrix: Water
Lab File ID: hfpo718B12078.d
Analysis Method: 8321A
Date Collected: 01/31/2018 11:25
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 286(mL)
Date Analyzed: 02/12/2018 14:28
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12078.d
Lims ID: 280-105999-C-56-A
Client ID: FAY-D-3926HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:28:04 ALS Bottle#: 1 Worklist Smp#: 45
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-56-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:00

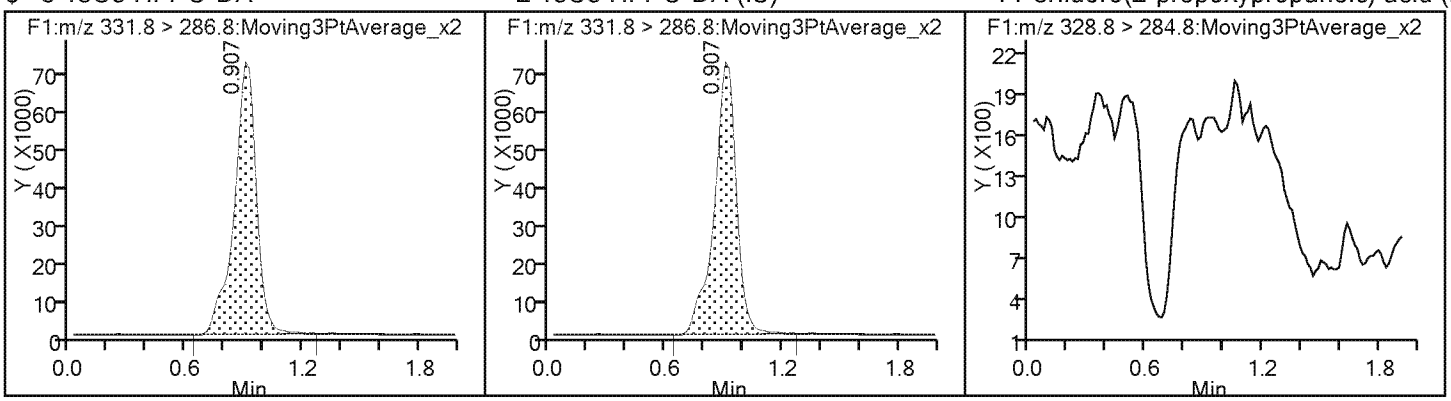
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	546550	7.32	967	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		546550	10.0	967	

Report Date: 12-Feb-2018 14:51:37 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12078.d				
Injection Date:	12-Feb-2018 14:28:04	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-56-A	Lab Sample ID:	280-105999-56		
Client ID:	FAY-D-3926HEART-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	1	Worklist Smp#:	45
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12078.d
Lims ID: 280-105999-C-56-A
Client ID: FAY-D-3926HEART-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:28:04 ALS Bottle#: 1 Worklist Smp#: 45
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-56-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.32	73.21

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3513TRERG-W1-1-013118
Lab Sample ID: 280-105999-57
Matrix: Water
Lab File ID: hfpo718B12079.d
Analysis Method: 8321A
Date Collected: 01/31/2018 14:45
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 288.7(mL)
Date Analyzed: 02/12/2018 14:31
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.021		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	67		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12079.d
Lims ID: 280-105999-A-57-A
Client ID: FAY-D-3513TRERG-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:31:18 ALS Bottle#: 2 Worklist Smp#: 46
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-57-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:12

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	500668	6.71	1027	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		500668	10.0	1027	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	65479	1.20	13.2	M

QC Flag Legend

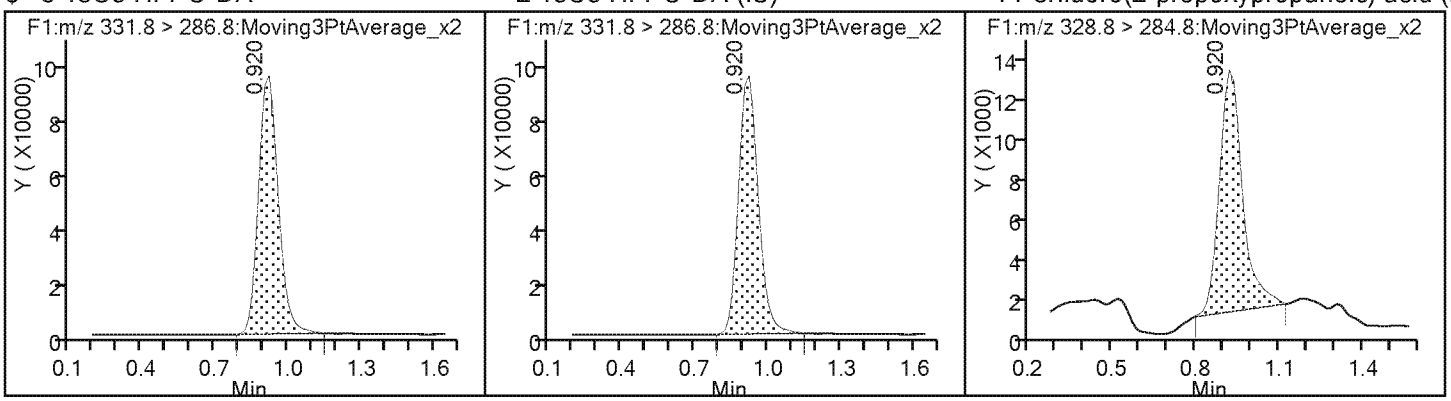
Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:51:38 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12079.d				
Injection Date:	12-Feb-2018 14:31:18	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-57-A	Lab Sample ID:	280-105999-57		
Client ID:	FAY-D-3513TRERG-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	46
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12079.d
Lims ID: 280-105999-A-57-A
Client ID: FAY-D-3513TRERG-W1-1-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:31:18 ALS Bottle#: 2 Worklist Smp#: 46
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-57-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.71	67.06

Manual Integration/User Assign Peak Report

TestAmerica Denver

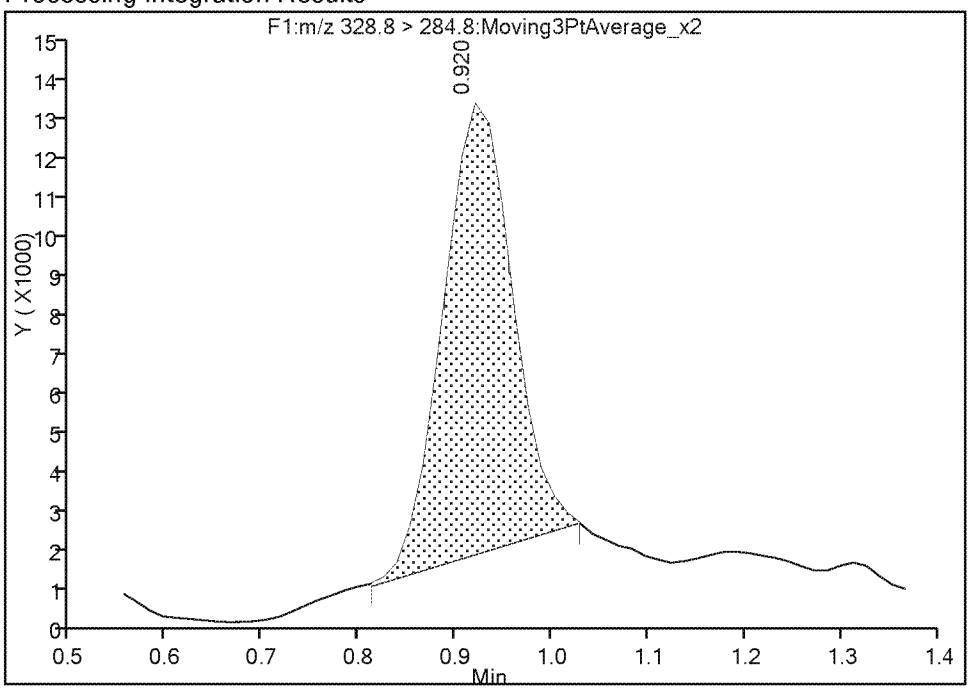
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12079.d				
Injection Date:	12-Feb-2018 14:31:18	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-57-A	Lab Sample ID:	280-105999-57		
Client ID:	FAY-D-3513TRERG-W1-1-013118				
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	46
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

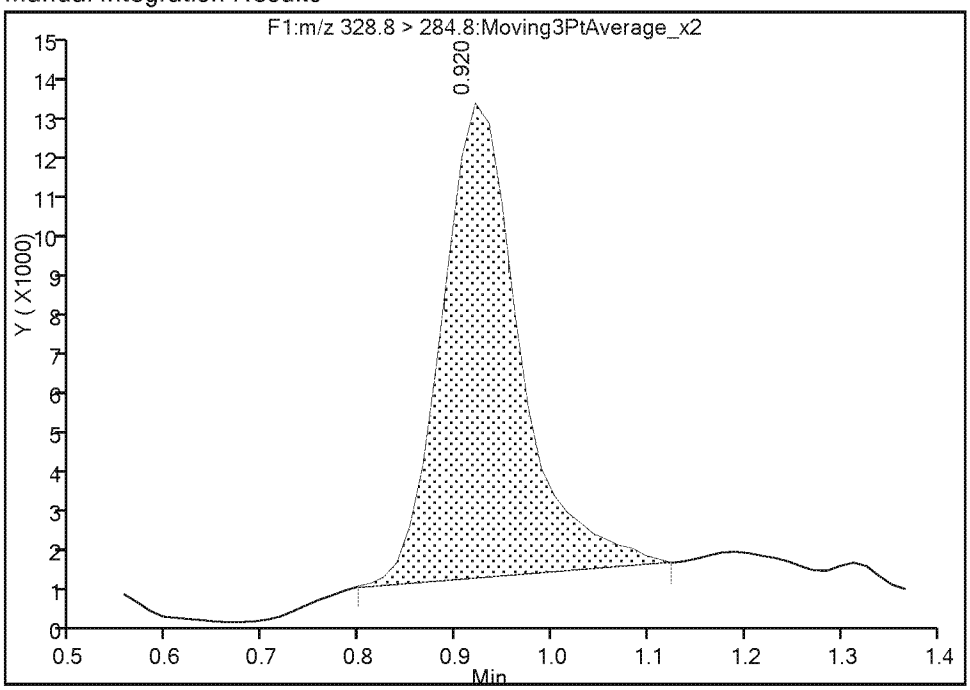
Processing Integration Results

RT: 0.92
Area: 55362
Amount: 1.005484
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 65479
Amount: 1.195435
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:51:09

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-3513TRERG-W1-2-013118
Lab Sample ID: 280-105999-58
Matrix: Water
Lab File ID: hfpo718B12080.d
Analysis Method: 8321A
Date Collected: 01/31/2018 14:42
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 277.4(mL)
Date Analyzed: 02/12/2018 14:34
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	82		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12080.d
Lims ID: 280-105999-A-58-A
Client ID: FAY-D-3513TRERG-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:34:33 ALS Bottle#: 3 Worklist Smp#: 47
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-58-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:15

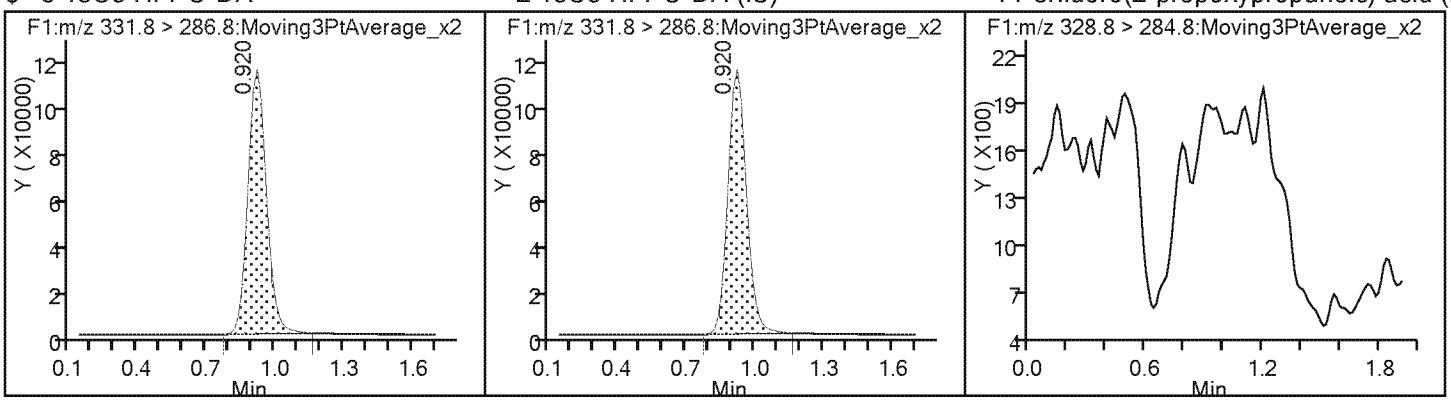
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	611601	8.19	1165	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		611601	10.0	1165	

Report Date: 12-Feb-2018 14:51:38 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12080.d				
Injection Date:	12-Feb-2018 14:34:33	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-A-58-A	Lab Sample ID:	280-105999-58		
Client ID:	FAY-D-3513TRERG-W1-2-013118				
Operator ID:	JBH	ALS Bottle#:	3	Worklist Smp#:	47
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12080.d
Lims ID: 280-105999-A-58-A
Client ID: FAY-D-3513TRERG-W1-2-013118
Sample Type: Client
Inject. Date: 12-Feb-2018 14:34:33 ALS Bottle#: 3 Worklist Smp#: 47
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-A-58-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:18 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.19	81.92

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-105999-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-404345/3	hfpo718B08034.d
Level 2	STD002 280-404345/4	hfpo718B08035.d
Level 3	STD003 280-404345/5	hfpo718B08036.d
Level 4	STD004 280-404345/6	hfpo718B08037.d
Level 5	STD005 280-404345/7	hfpo718B08038.d
Level 6	STD006 280-404345/8	hfpo718B08039.d
Level 7	STD007 280-404345/9	hfpo718B08040.d
Level 8	STD008 280-404345/10	hfpo718B08041.d
Level 9	STD009 280-404345/11	hfpo718B08042.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
HFPO-DA	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056		0.556 - 1.556	1.056
13C3 HFPO-DA	1.042	1.042	1.042	1.042	1.042	1.042	1.042	1.056	1.056		0.545 - 1.545	1.045

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-105999-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-404345/3	hfpo718B08034.d
Level 2	STD002 280-404345/4	hfpo718B08035.d
Level 3	STD003 280-404345/5	hfpo718B08036.d
Level 4	STD004 280-404345/6	hfpo718B08037.d
Level 5	STD005 280-404345/7	hfpo718B08038.d
Level 6	STD006 280-404345/8	hfpo718B08039.d
Level 7	STD007 280-404345/9	hfpo718B08040.d
Level 8	STD008 280-404345/10	hfpo718B08041.d
Level 9	STD009 280-404345/11	hfpo718B08042.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
13C3 HFPO-DA	75771 75244 71284	75964 75940	72010 75039	77000 73687	Ave		74659.8778				2.6		30.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-105999-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
HFPO-DA	1.1630 1.1128	1.1250 1.0911	1.0756 1.0665	1.0527 1.0507	1.1211	Lin1	0.0361	1.0638							1.0000		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-105999-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-404345/3	hfpo718B08034.d
Level 2	STD002 280-404345/4	hfpo718B08035.d
Level 3	STD003 280-404345/5	hfpo718B08036.d
Level 4	STD004 280-404345/6	hfpo718B08037.d
Level 5	STD005 280-404345/7	hfpo718B08038.d
Level 6	STD006 280-404345/8	hfpo718B08039.d
Level 7	STD007 280-404345/9	hfpo718B08040.d
Level 8	STD008 280-404345/10	hfpo718B08041.d
Level 9	STD009 280-404345/11	hfpo718B08042.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
13C3 HFPO-DA	Ave	757714 759397	759642 750388	720099 736869	769995 712841	752444	10.0 10.0	10.0 10.0	10.0 10.0	10.0 10.0	10.0

Curve Type Legend:
Ave = Average

FORM VI
LCMS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-105999-1 Analy Batch No.: 404345

SDG No.:

Instrument ID: LC_LCMS7 GC Column: Synergi Hyd ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/08/2018 13:05 Calibration End Date: 02/08/2018 13:31 Calibration ID: 31612

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD001 280-404345/3	hfpo718B08034.d
Level 2	STD002 280-404345/4	hfpo718B08035.d
Level 3	STD003 280-404345/5	hfpo718B08036.d
Level 4	STD004 280-404345/6	hfpo718B08037.d
Level 5	STD005 280-404345/7	hfpo718B08038.d
Level 6	STD006 280-404345/8	hfpo718B08039.d
Level 7	STD007 280-404345/9	hfpo718B08040.d
Level 8	STD008 280-404345/10	hfpo718B08041.d
Level 9	STD009 280-404345/11	hfpo718B08042.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
HFPO-DA	13CP ODA	Lin1	22031 845082	42730 2046873	77455 3929397	162117 7489478	421775	0.250 10.0	0.500 25.0	1.00 50.0	2.00 100	5.00

Curve Type Legend:
Lin1 = Linear 1/conc ISTD

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08034.d
Lims ID: std001
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Feb-2018 13:05:38 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L1
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:13 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:04

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		757714	10.0	1562	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	757714	10.1	1562	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	1.056	1.056	0.0	1.000	22031	0.2394	4.4	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HFPO_CAL-1_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:13 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08034.d

Injection Date: 08-Feb-2018 13:05:38 Instrument ID: LC_LCMS7

Lims ID: std001

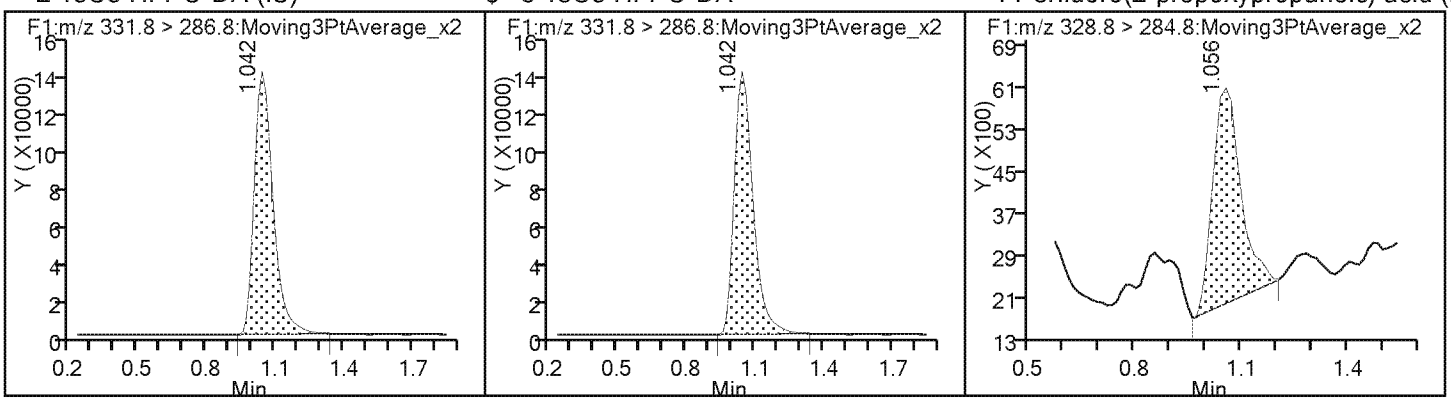
Client ID:

Operator ID: JBH ALS Bottle#: 2 Worklist Smp#: 3

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid (M)



Manual Integration/User Assign Peak Report

TestAmerica Denver

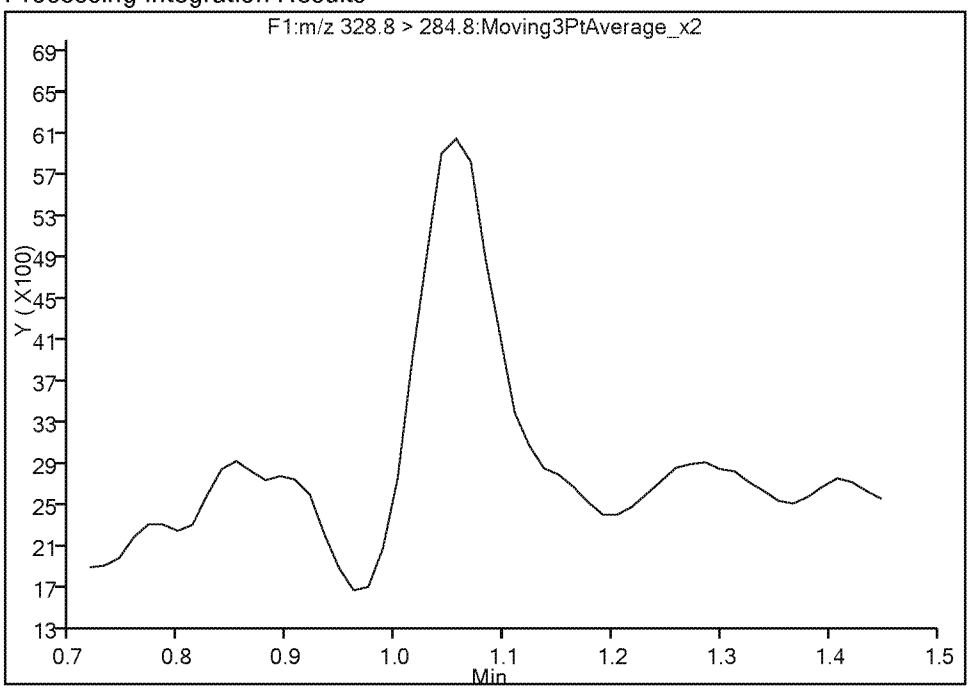
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08034.d				
Injection Date:	08-Feb-2018 13:05:38	Instrument ID:	LC_LCMS7		
Lims ID:	std001				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

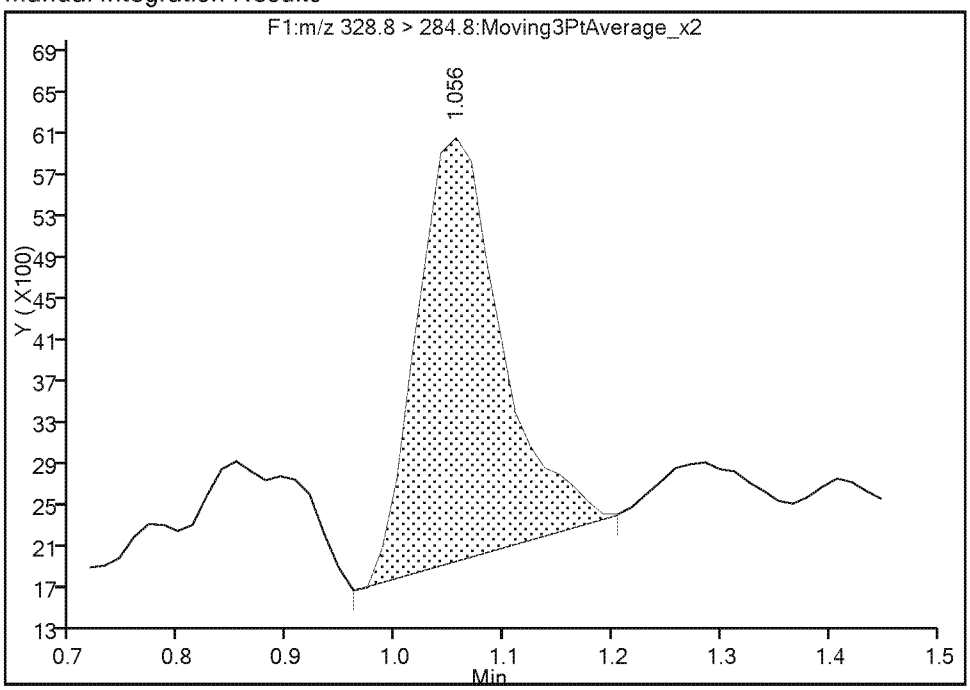
Processing Integration Results

Not Detected
Expected RT: 1.06



Manual Integration Results

RT: 1.06
Area: 22031
Amount: 0.239356
Amount Units: ug/l



Reviewer: meyera, 08-Feb-2018 15:19:01
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08035.d
Lims ID: std002
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Feb-2018 13:08:52 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L2
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:14 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:16

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	759642	10.2	1267	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		759642	10.0	1267	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	1.056	1.056	0.0	1.000	42730	0.4948	6.5	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

HFPO_CAL-2_00033 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:14 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08035.d

Injection Date: 08-Feb-2018 13:08:52 Instrument ID: LC_LCMS7

Lims ID: std002

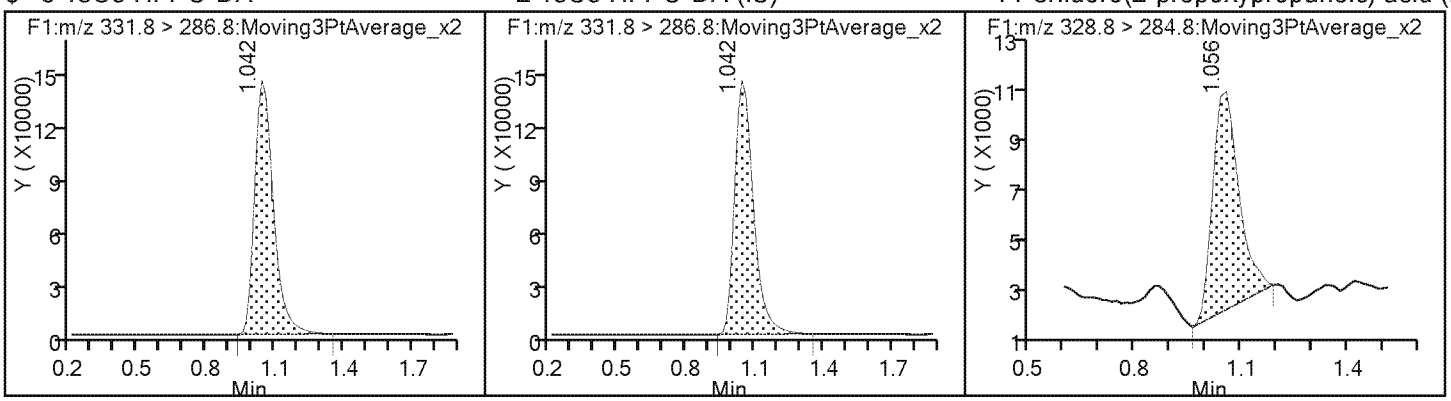
Client ID:

Operator ID: JBH ALS Bottle#: 3 Worklist Smp#: 4

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



Manual Integration/User Assign Peak Report

TestAmerica Denver

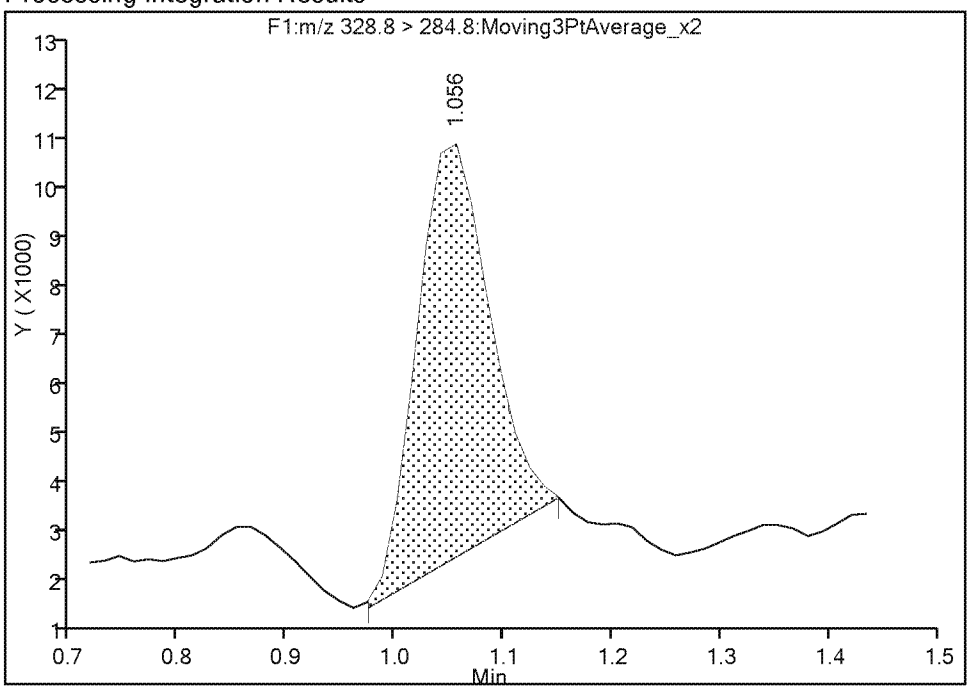
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08035.d				
Injection Date:	08-Feb-2018 13:08:52	Instrument ID:	LC_LCMS7		
Lims ID:	std002				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

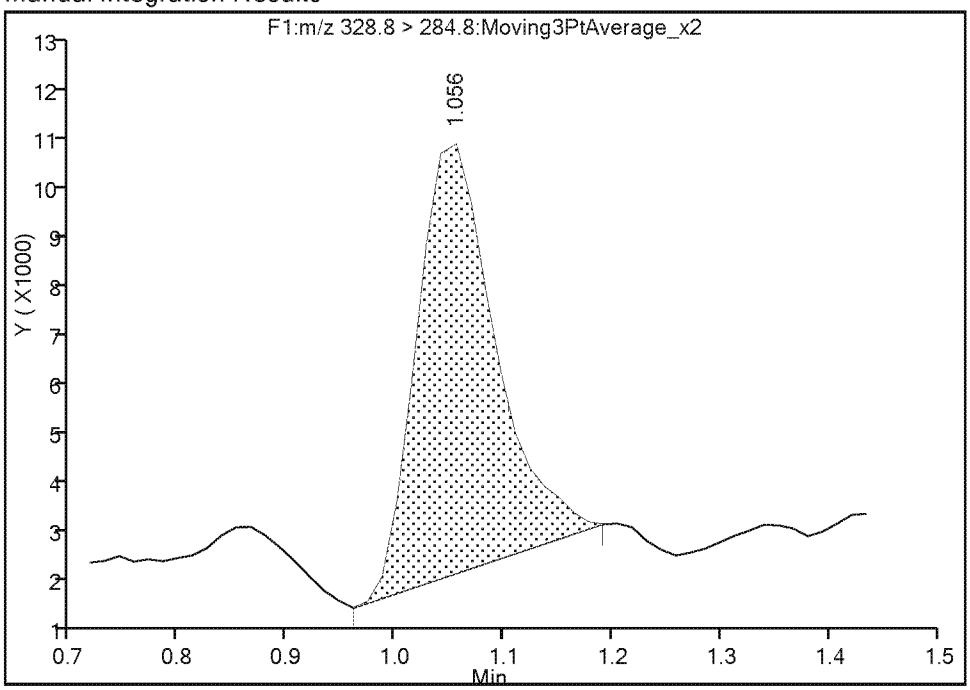
Processing Integration Results

RT: 1.06
Area: 38092
Amount: 0.452274
Amount Units: ug/l



Manual Integration Results

RT: 1.06
Area: 42730
Amount: 0.494804
Amount Units: ug/l



Reviewer: meyera, 08-Feb-2018 15:19:12

Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08036.d
Lims ID: std003
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Feb-2018 13:12:06 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L3
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:14 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:19

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		720099	10.0	956	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	720099	9.65	956	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	77455	0.9771	10.6	

Reagents:

HFPO_CAL-3_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:15 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08036.d

Injection Date: 08-Feb-2018 13:12:06 Instrument ID: LC_LCMS7

Lims ID: std003

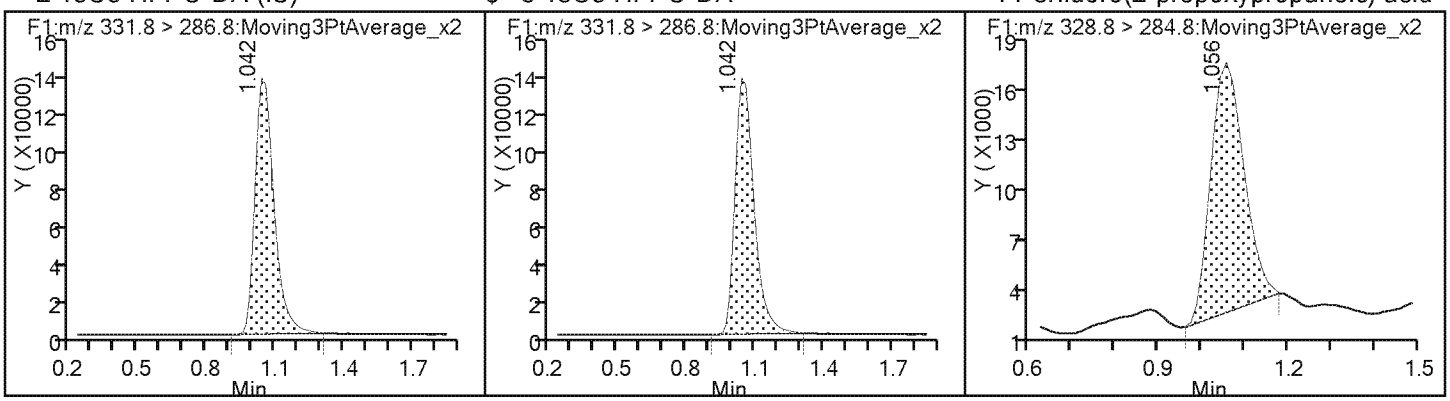
Client ID:

Operator ID: JBH ALS Bottle#: 4 Worklist Smp#: 5

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08037.d
Lims ID: std004
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Feb-2018 13:15:21 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L4
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:22

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	769995	10.3	1154	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		769995	10.0	1154	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	162117	1.95	26.1	

Reagents:

HFPO_CAL-4_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:15 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08037.d

Injection Date: 08-Feb-2018 13:15:21 Instrument ID: LC_LCMS7

Lims ID: std004

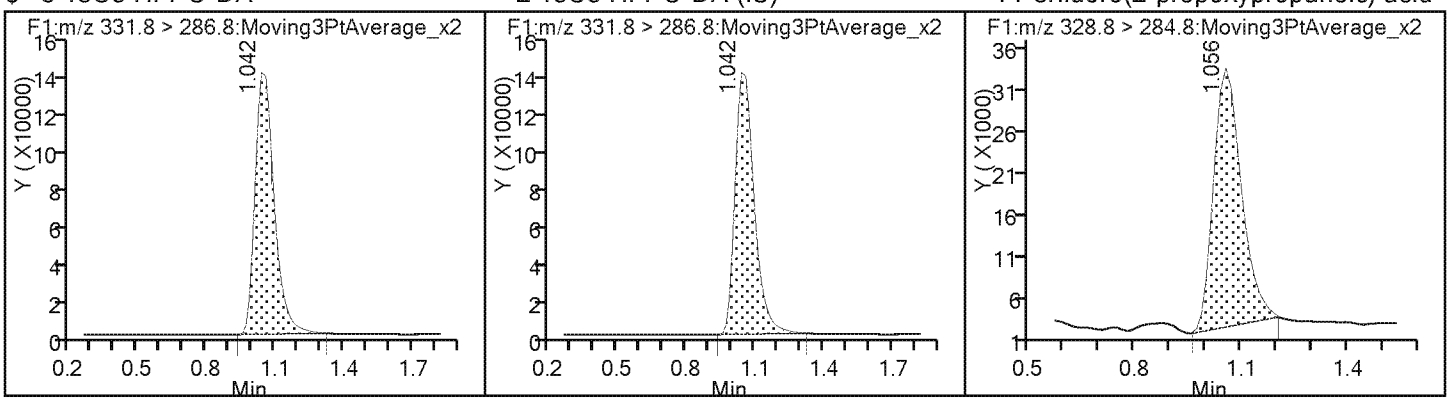
Client ID:

Operator ID: JBH ALS Bottle#: 5 Worklist Smp#: 6

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08038.d
Lims ID: std005
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Feb-2018 13:18:35 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L5
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:24

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		752444	10.0	1072	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	752444	10.1	1072	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	421775	5.24	66.0	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08038.d

Injection Date: 08-Feb-2018 13:18:35 Instrument ID: LC_LCMS7

Lims ID: std005

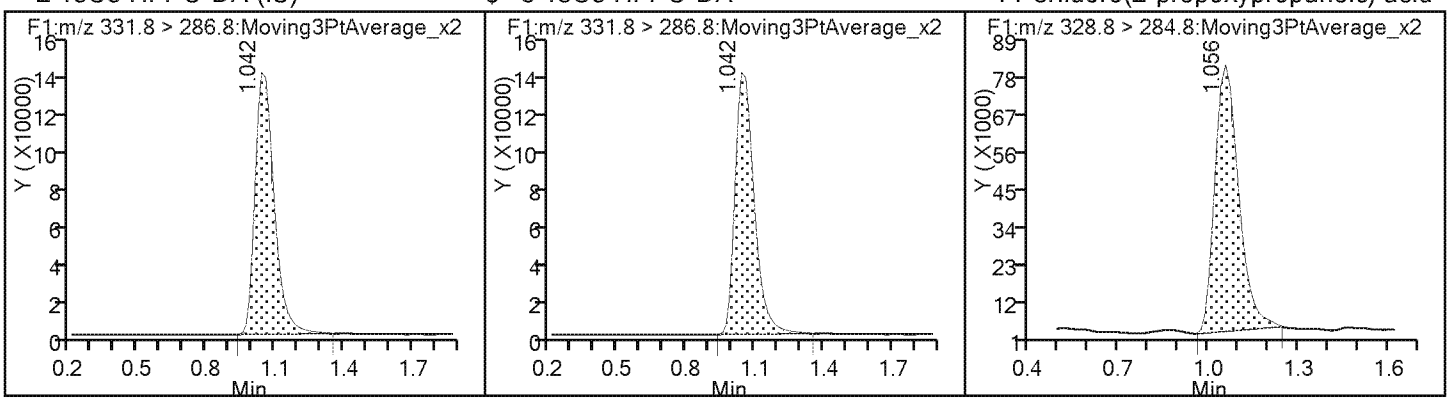
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 7

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08039.d
Lims ID: std006
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Feb-2018 13:21:49 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L6
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:16 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:26

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	759397	10.2	1193	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		759397	10.0	1193	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	845082	10.4	146	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08039.d

Injection Date: 08-Feb-2018 13:21:49 Instrument ID: LC_LCMS7

Lims ID: std006

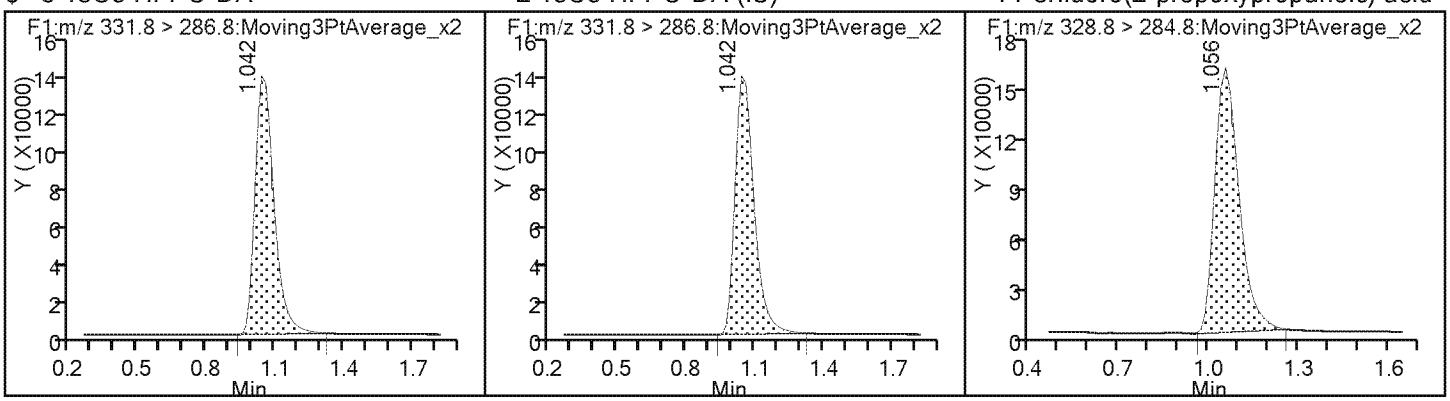
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 8

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08040.d
Lims ID: std007
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Feb-2018 13:25:03 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L7
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:16 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.042	1.045	-0.003		750388	10.0	1247	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.042	1.045	-0.003	1.000	750388	10.1	1247	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	2046873	25.6	246	

Reagents:

HFPO_CAL-7_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:17 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08040.d

Injection Date: 08-Feb-2018 13:25:03 Instrument ID: LC_LCMS7

Lims ID: std007

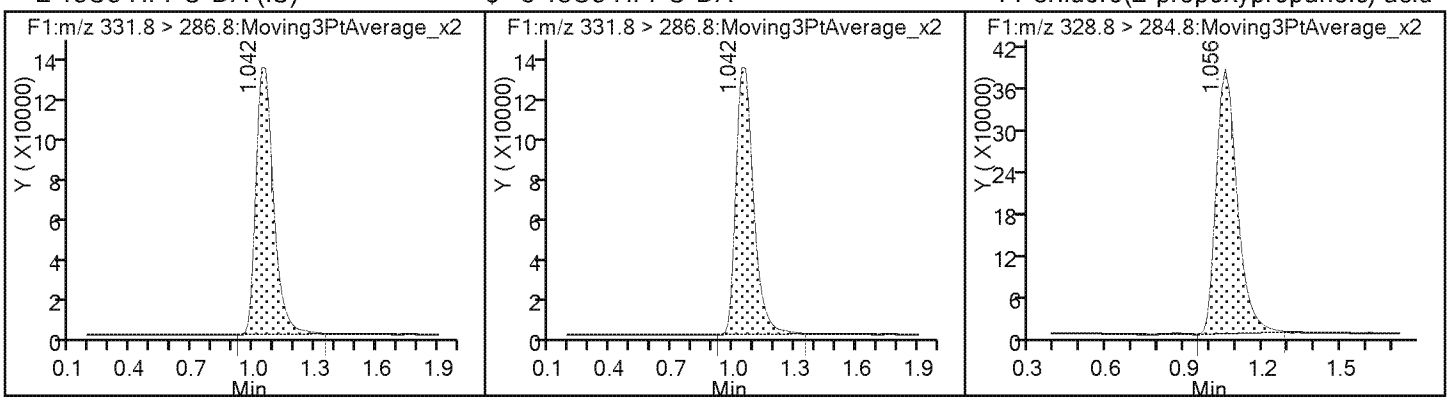
Client ID:

Operator ID: JBH ALS Bottle#: 8 Worklist Smp#: 9

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08041.d
Lims ID: std008
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 08-Feb-2018 13:28:18 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L8
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.056	1.045	0.011	1.000	736869	9.87	1055	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.056	1.045	0.011		736869	10.0	1055	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	3929397	50.1	416	

Reagents:

HFPO_CAL-8_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:17 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08041.d

Injection Date: 08-Feb-2018 13:28:18 Instrument ID: LC_LCMS7

Lims ID: std008

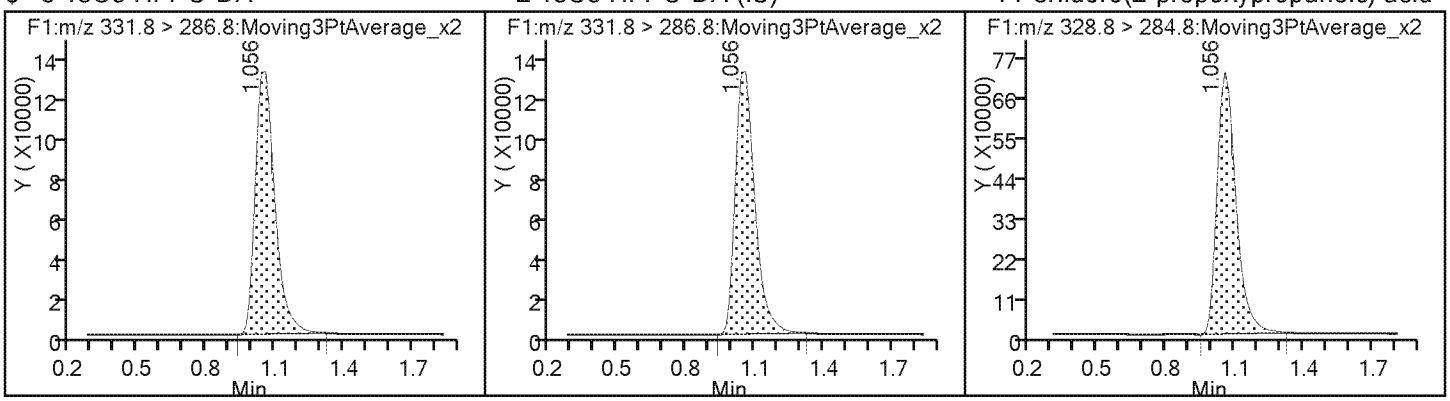
Client ID:

Operator ID: JBH ALS Bottle#: 9 Worklist Smp#: 10

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d
Lims ID: std009
Client ID:
Sample Type: IC Calib Level: 9
Inject. Date: 08-Feb-2018 13:31:32 ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: L9
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:38

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.056	1.045	0.011		712841	10.0	1141	
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.056	1.045	0.011	1.000	712841	9.55	1141	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	7489478	98.7	561	

Reagents:

HFPO_CAL-9_00001 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:18 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Injection Date: 08-Feb-2018 13:31:32 Instrument ID: LC_LCMS7

Lims ID: std009

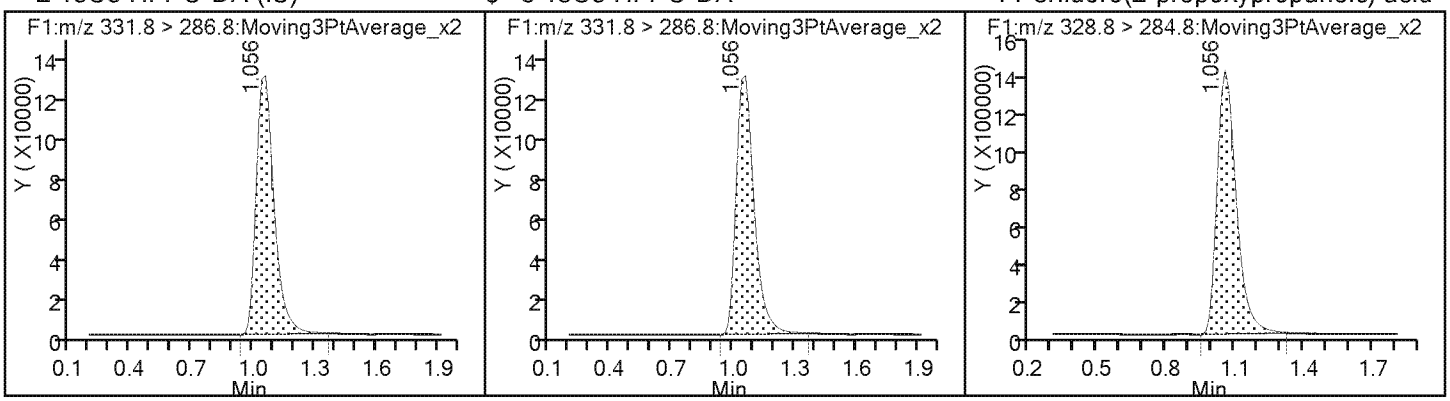
Client ID:

Operator ID: JBH ALS Bottle#: 10 Worklist Smp#: 11

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

* 2 13C3 HFPO-DA (IS) $ 3 13C3 HFPO-DA 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: ICV 280-404345/14 Calibration Date: 02/08/2018 13:41

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B08045.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.139		2.05	1.95	5.3	20.0
13C3 HFPO-DA	Ave	74660	76733		10.3	10.0	2.8	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08045.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Feb-2018 13:41:16 ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist:

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:35

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.056	1.045	0.011	1.000	767333	10.3	1367	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.056	1.045	0.011		767333	10.0	1367	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.056	1.056	0.0	1.000	170411	2.05	30.8	

Reagents:

HFPO_ICV_00034 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:19 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08045.d

Injection Date: 08-Feb-2018 13:41:16 Instrument ID: LC_LCMS7

Lims ID: ICV

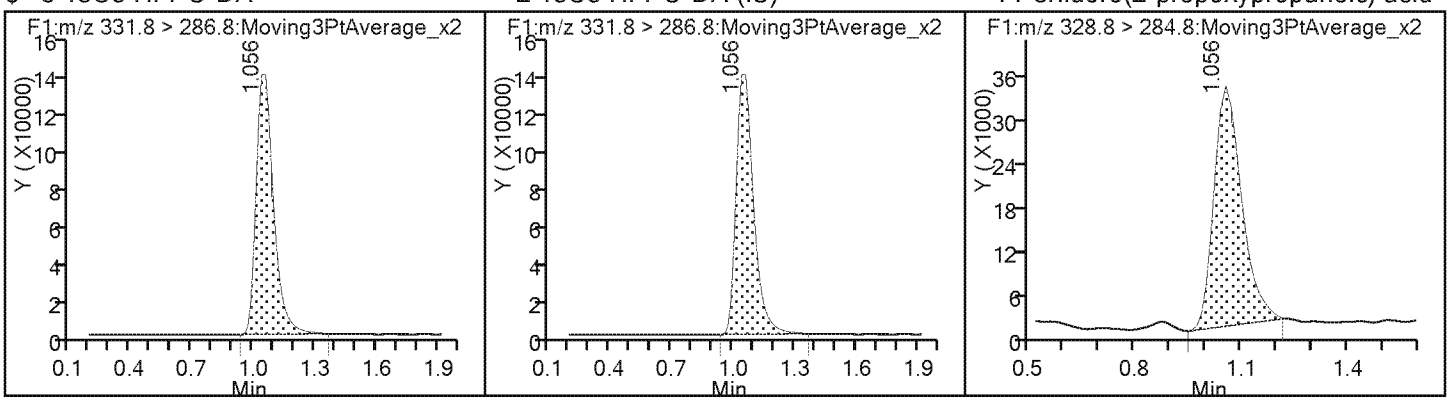
Client ID:

Operator ID: JBH ALS Bottle#: 11 Worklist Smp#: 14

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404346/25 Calibration Date: 02/08/2018 14:16

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B08056.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.113		5.20	5.00	4.0	20.0
13C3 HFPO-DA	Ave	74660	88948		11.9	10.0	19.1	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08056.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 08-Feb-2018 14:16:56 ALS Bottle#: 6 Worklist Smp#: 25
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:25 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:22:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	889475	11.9	1245	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		889475	10.0	1245	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.975	1.056	-0.081	1.000	495099	5.20	117	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:25 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08056.d

Injection Date: 08-Feb-2018 14:16:56 Instrument ID: LC_LCMS7

Lims ID: CCV L5

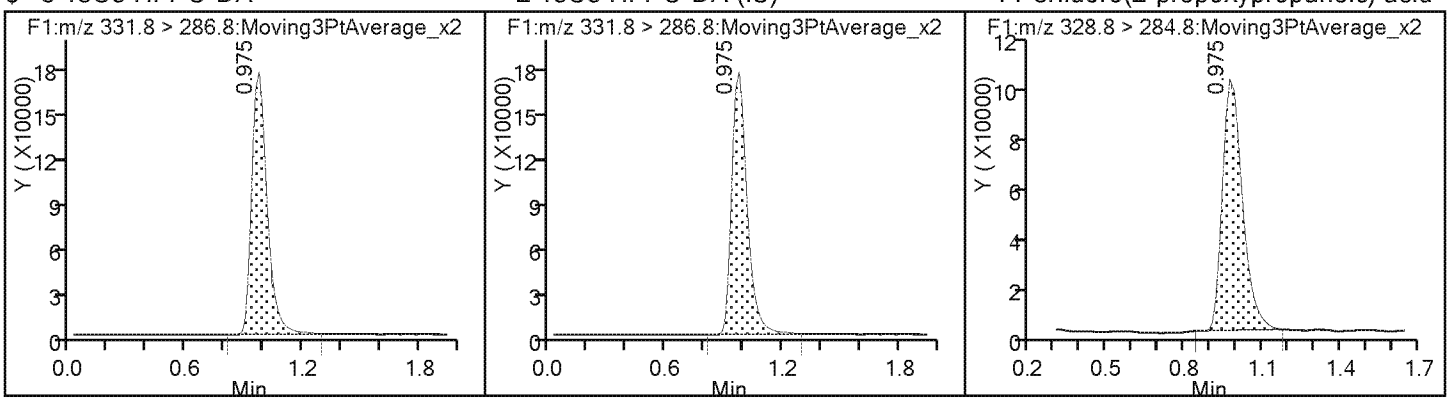
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 25

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404457/3 Calibration Date: 02/09/2018 09:18

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B09013.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.091		10.2	10.0	2.2	20.0
13C3 HFPO-DA	Ave	74660	65790		8.81	10.0	-11.9	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09013.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 09-Feb-2018 09:18:20 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:00

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.015	1.045	-0.030	1.000	657904	8.81	1213	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.015	1.045	-0.030		657904	10.0	1213	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	1.029	1.056	-0.027	1.000	717723	10.2	121	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 09-Feb-2018 12:01:58 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09013.d

Injection Date: 09-Feb-2018 09:18:20 Instrument ID: LC_LCMS7

Lims ID: CCV L6

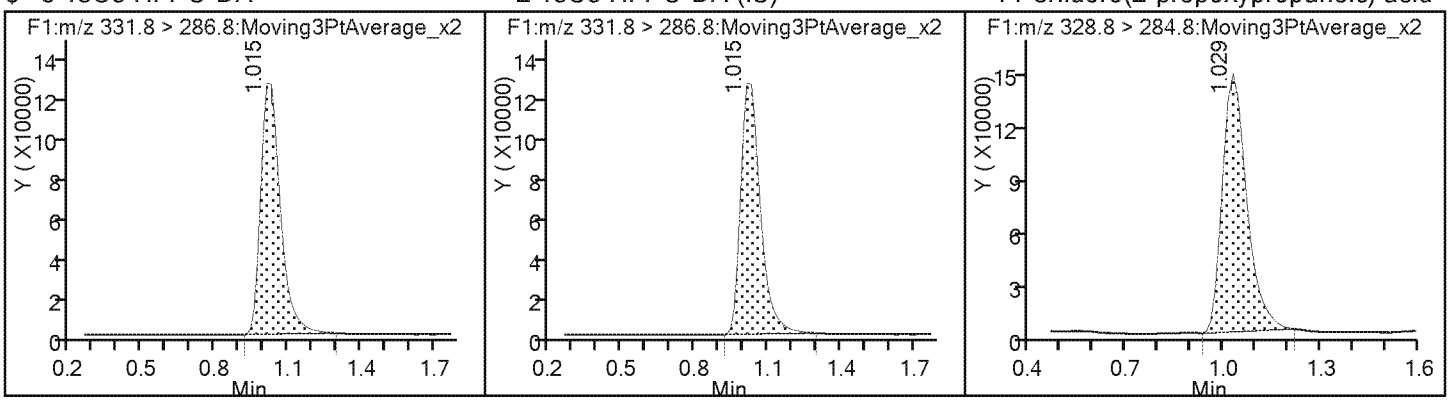
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 3

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404457/14 Calibration Date: 02/09/2018 09:54

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B09024.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.165		5.44	5.00	8.8	20.0
13C3 HFPO-DA	Ave	74660	84022		11.3	10.0	12.5	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09024.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 09-Feb-2018 09:54:03 ALS Bottle#: 6 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:32

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	840222	11.3	1666	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		840222	10.0	1666	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.975	1.056	-0.081	1.000	489443	5.44	108	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 09-Feb-2018 12:02:11 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09024.d

Injection Date: 09-Feb-2018 09:54:03 Instrument ID: LC_LCMS7

Lims ID: CCV L5

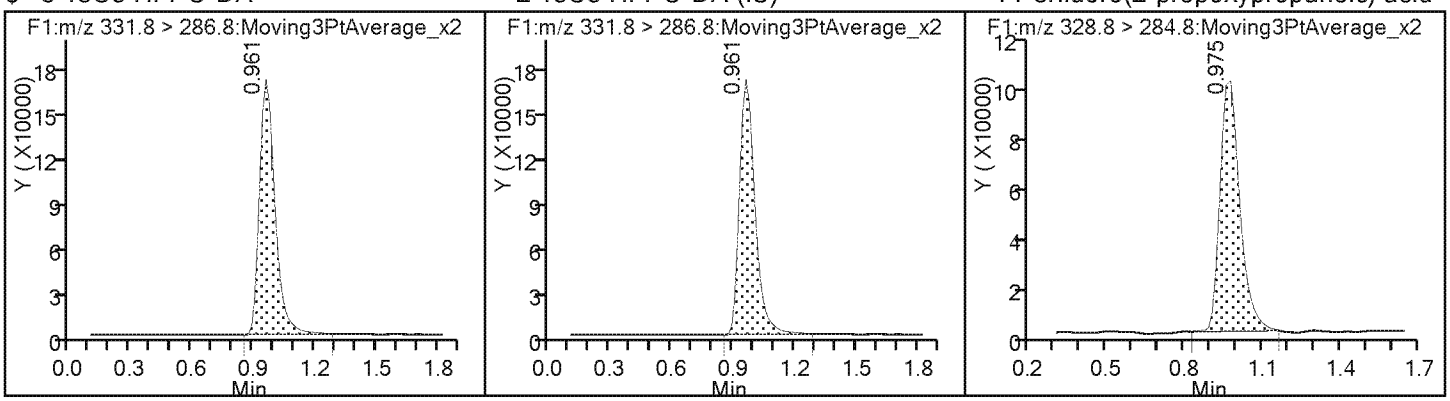
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 14

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404457/25 Calibration Date: 02/09/2018 10:29

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B09035.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.118		10.5	10.0	4.7	20.0
13C3 HFPO-DA	Ave	74660	86591		11.6	10.0	16.0	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09035.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 09-Feb-2018 10:29:50 ALS Bottle#: 7 Worklist Smp#: 25
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:25 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:00:23

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	865912	11.6	1708	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		865912	10.0	1708	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	967900	10.5	209	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 09-Feb-2018 12:02:25 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09035.d

Injection Date: 09-Feb-2018 10:29:50 Instrument ID: LC_LCMS7

Lims ID: CCV L6

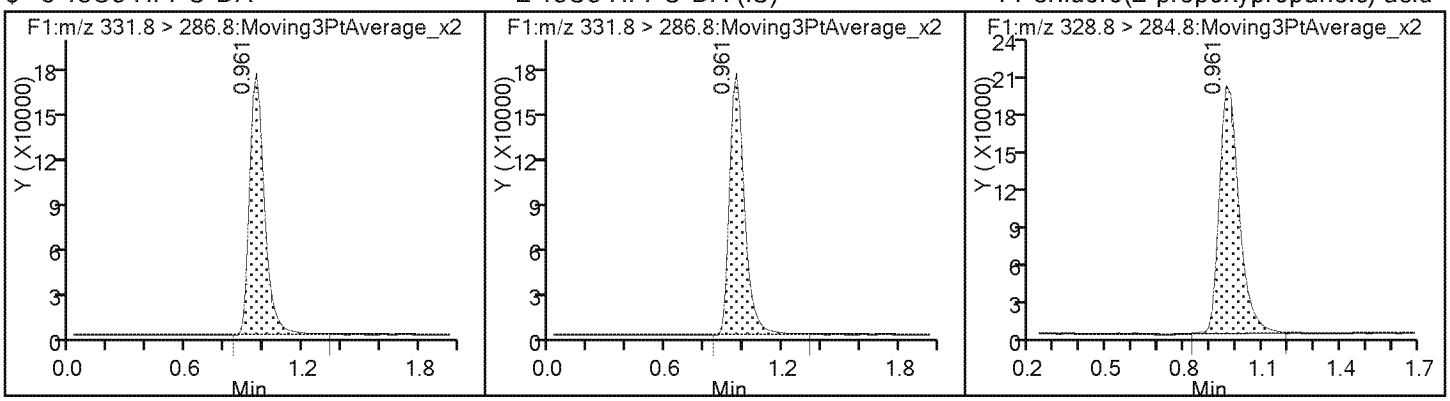
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 25

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404457/32 Calibration Date: 02/09/2018 10:52

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B09042.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.157		5.40	5.00	8.1	20.0
13C3 HFPO-DA	Ave	74660	87534		11.7	10.0	17.2	

FORM VII 8321A

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404458/32 Calibration Date: 02/09/2018 10:52

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B09042.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.157		5.40	5.00	8.1	20.0
13C3 HFPO-DA	Ave	74660	87534		11.7	10.0	17.2	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09042.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 09-Feb-2018 10:52:39 ALS Bottle#: 6 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:34 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:00:47

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	875336	11.7	1467	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		875336	10.0	1467	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	506290	5.40	107	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09042.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 09-Feb-2018 10:52:39 ALS Bottle#: 6 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:02:34 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:00:47

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	875336	11.7	1467	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		875336	10.0	1467	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	506290	5.40	107	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 09-Feb-2018 12:02:34 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09042.d

Injection Date: 09-Feb-2018 10:52:39 Instrument ID: LC_LCMS7

Lims ID: CCV L5

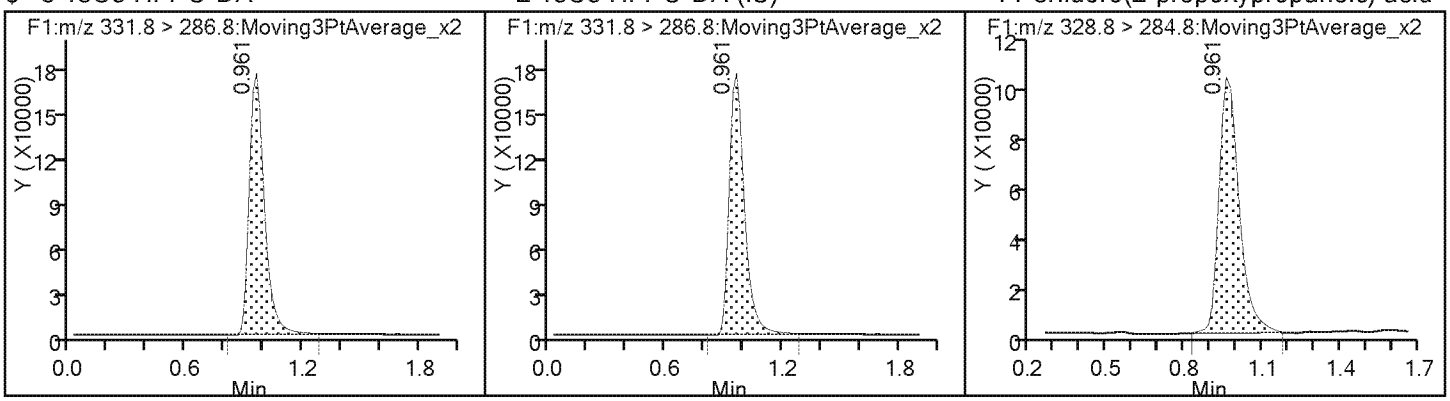
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 32

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



Report Date: 09-Feb-2018 12:02:34 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09042.d

Injection Date: 09-Feb-2018 10:52:39 Instrument ID: LC_LCMS7

Lims ID: CCV L5

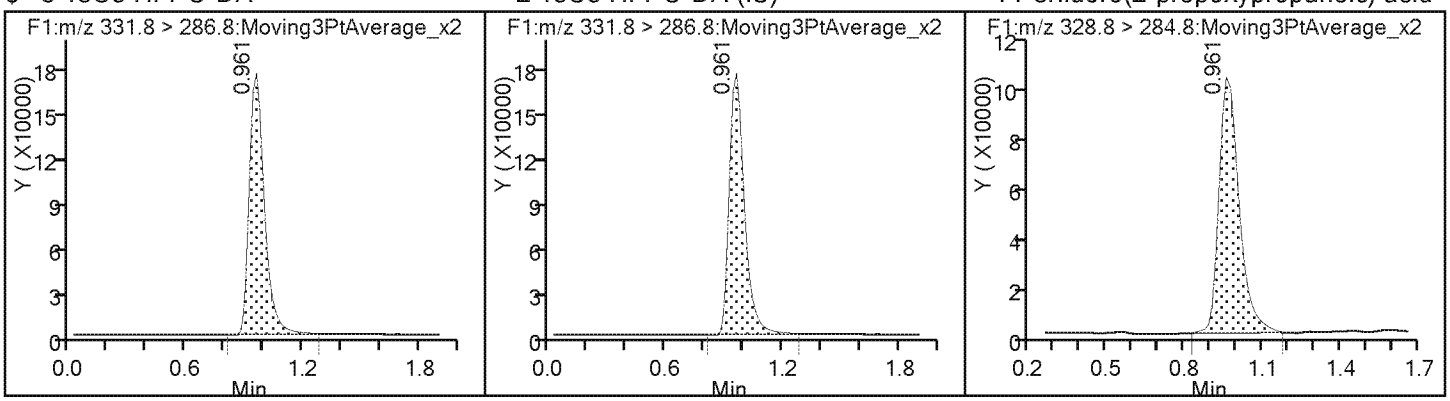
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 32

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404458/43 Calibration Date: 02/09/2018 11:28

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B09053.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.148		10.8	10.0	7.5	20.0
13C3 HFPO-DA	Ave	74660	89054		11.9	10.0	19.3	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09053.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 09-Feb-2018 11:28:42 ALS Bottle#: 7 Worklist Smp#: 43
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	890544	11.9	1358	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		890544	10.0	1358	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	1021919	10.8	187	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 09-Feb-2018 12:56:03 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09053.d

Injection Date: 09-Feb-2018 11:28:42 Instrument ID: LC_LCMS7

Lims ID: CCV L6

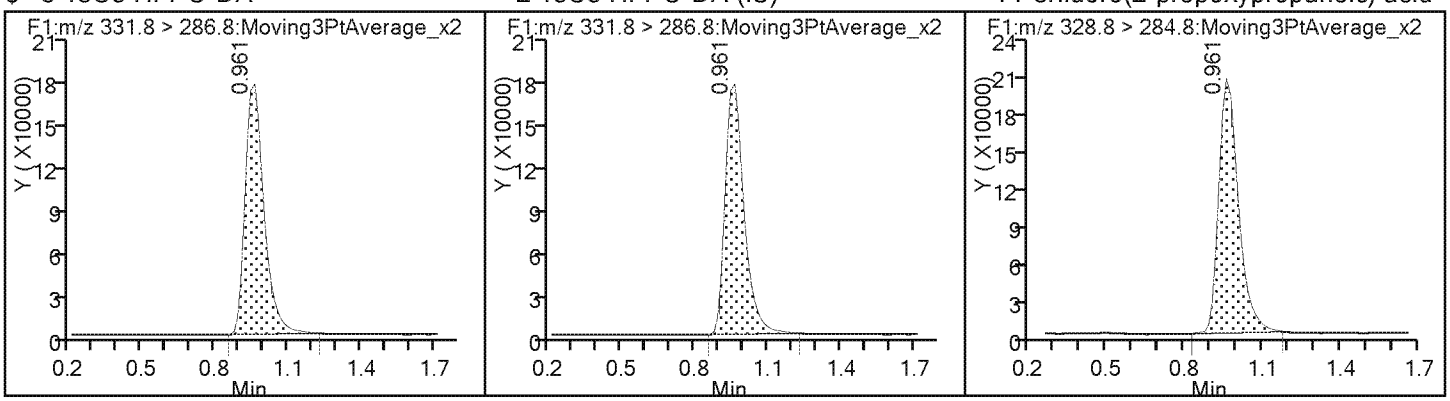
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 43

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404458/54 Calibration Date: 02/09/2018 12:04

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B09064.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.161		5.42	5.00	8.5	20.0
13C3 HFPO-DA	Ave	74660	89118		11.9	10.0	19.4	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09064.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 09-Feb-2018 12:04:22 ALS Bottle#: 6 Worklist Smp#: 54
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:08 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:27

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	891178	11.9	1345	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		891178	10.0	1345	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	517367	5.42	107	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 09-Feb-2018 12:56:08 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09064.d

Injection Date: 09-Feb-2018 12:04:22 Instrument ID: LC_LCMS7

Lims ID: CCV L5

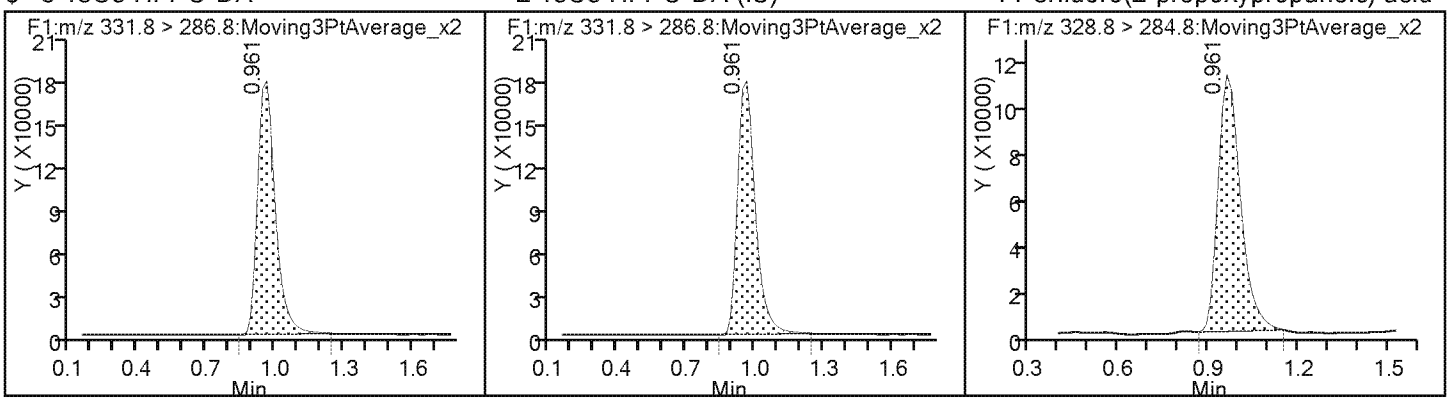
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 54

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404458/61 Calibration Date: 02/09/2018 12:27

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B09071.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.136		10.6	10.0	6.5	20.0
13C3 HFPO-DA	Ave	74660	89378		12.0	10.0	19.7	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09071.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 09-Feb-2018 12:27:02 ALS Bottle#: 7 Worklist Smp#: 61
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:11 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:55:12

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	893783	12.0	1285	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		893783	10.0	1285	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	1015555	10.6	146	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 09-Feb-2018 12:56:11 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09071.d

Injection Date: 09-Feb-2018 12:27:02 Instrument ID: LC_LCMS7

Lims ID: CCV L6

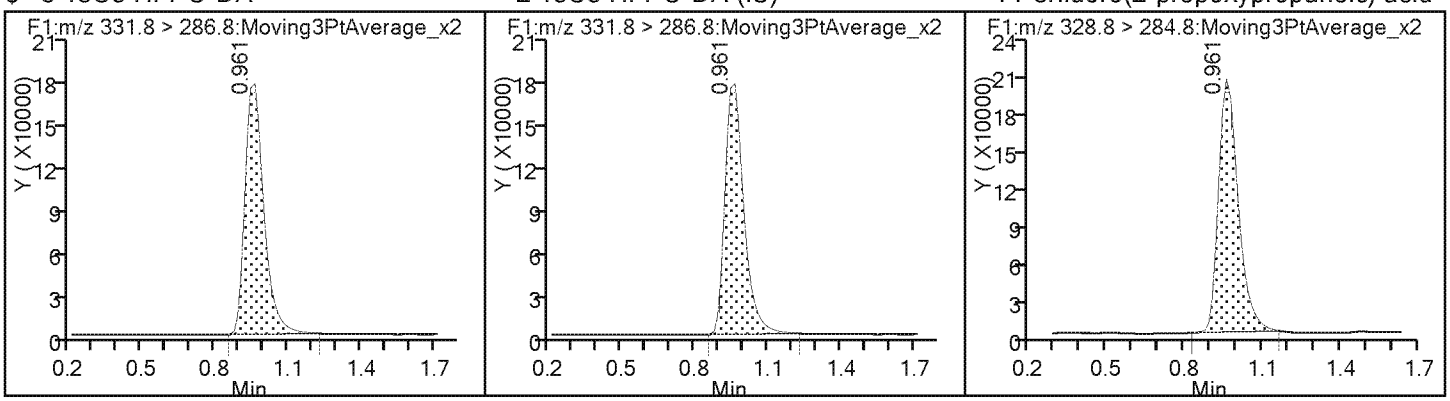
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 61

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404640/3 Calibration Date: 02/12/2018 12:11

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12036.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.130		10.6	10.0	5.9	20.0
13C3 HFPO-DA	Ave	74660	54397		7.29	10.0	-27.1	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12036.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 12:11:11 ALS Bottle#: 7 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:22

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	543970	7.29	1301	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		543970	10.0	1301	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	614672	10.6	132	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:30:55 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12036.d

Injection Date: 12-Feb-2018 12:11:11 Instrument ID: LC_LCMS7

Lims ID: CCV L6

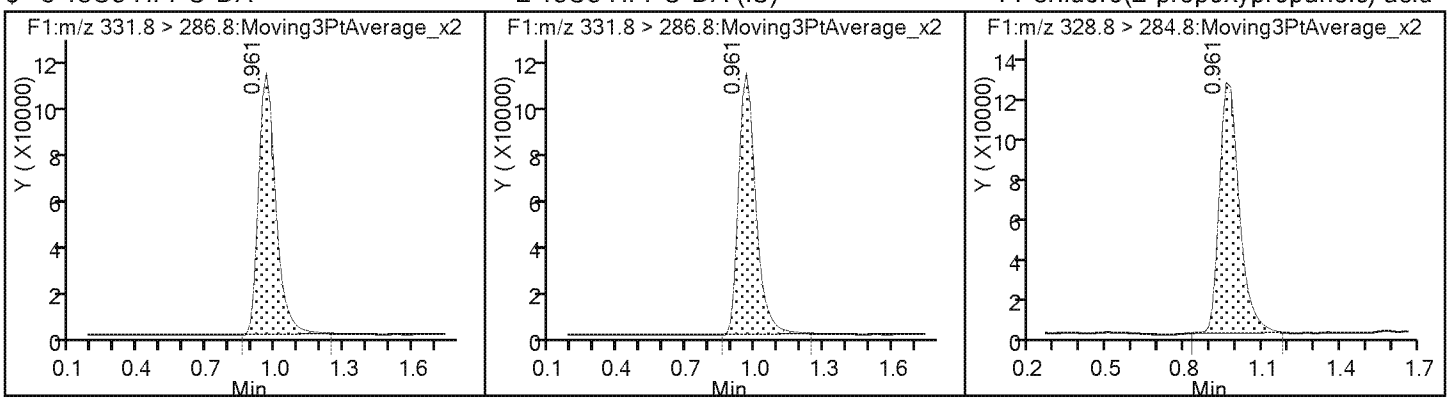
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 3

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404640/14 Calibration Date: 02/12/2018 12:46

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12047.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.194		5.58	5.00	11.6	20.0
13C3 HFPO-DA	Ave	74660	57187		7.66	10.0	-23.4	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12047.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 12:46:52 ALS Bottle#: 6 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:05 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:28:17

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	571871	7.66	1301	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		571871	10.0	1301	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	341415	5.58	87.8	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:31:06 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12047.d

Injection Date: 12-Feb-2018 12:46:52 Instrument ID: LC_LCMS7

Lims ID: CCV L5

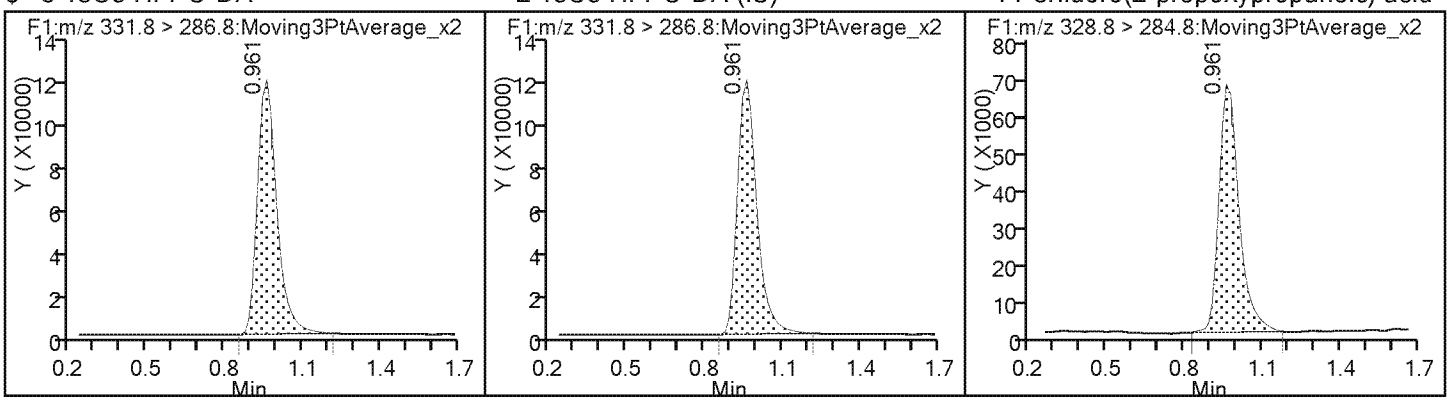
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 14

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404640/25 Calibration Date: 02/12/2018 13:22

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12058.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.139		10.7	10.0	6.7	20.0
13C3 HFPO-DA	Ave	74660	60515		8.11	10.0	-18.9	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12058.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 13:22:43 ALS Bottle#: 7 Worklist Smp#: 25
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:15 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:24

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	605149	8.11	1330	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		605149	10.0	1330	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	689110	10.7	170	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:31:16 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12058.d

Injection Date: 12-Feb-2018 13:22:43 Instrument ID: LC_LCMS7

Lims ID: CCV L6

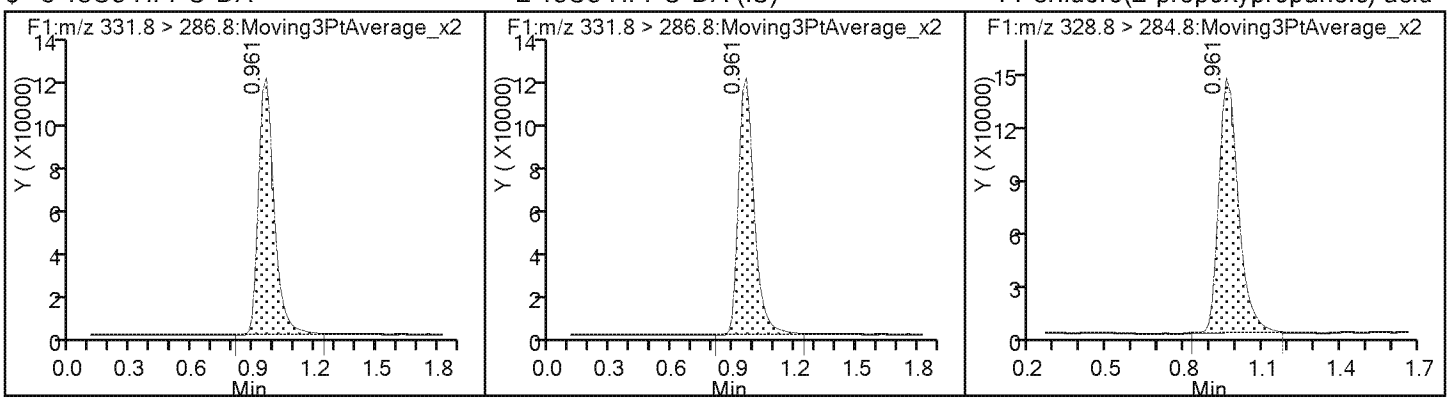
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 25

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404640/30 Calibration Date: 02/12/2018 13:38

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12063.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.148		5.36	5.00	7.2	20.0
13C3 HFPO-DA	Ave	74660	63027		8.44	10.0	-15.6	

FORM VII 8321A

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404641/30 Calibration Date: 02/12/2018 13:38

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12063.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.148		5.36	5.00	7.2	20.0
13C3 HFPO-DA	Ave	74660	63027		8.44	10.0	-15.6	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12063.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 13:38:59 ALS Bottle#: 6 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:51

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	630269	8.44	1581	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		630269	10.0	1581	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	361706	5.36	112	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12063.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 13:38:59 ALS Bottle#: 6 Worklist Smp#: 30
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:51

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	630269	8.44	1581	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		630269	10.0	1581	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	361706	5.36	112	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:31:21 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12063.d

Injection Date: 12-Feb-2018 13:38:59 Instrument ID: LC_LCMS7

Lims ID: CCV L5

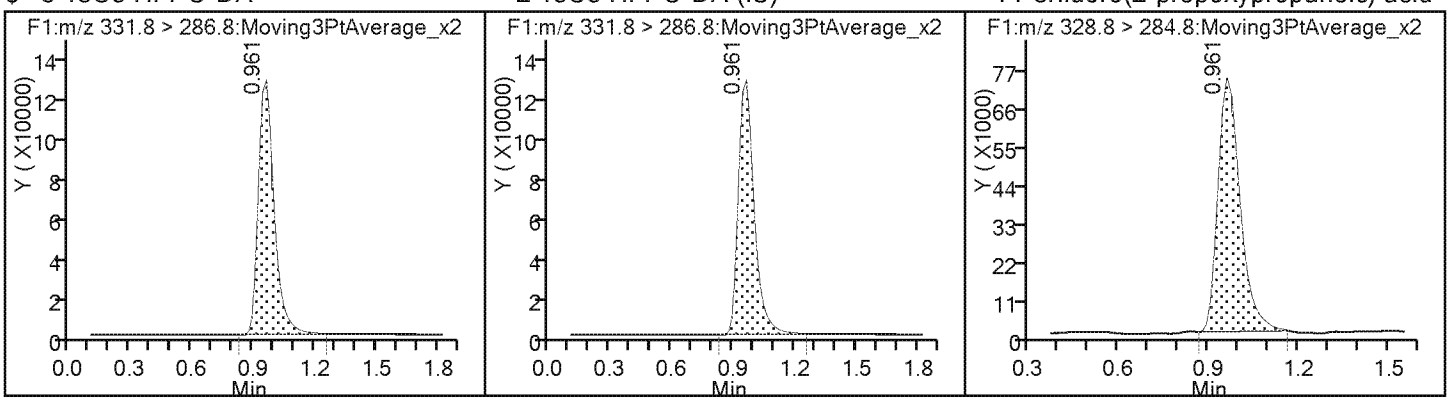
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 30

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



Report Date: 12-Feb-2018 14:31:21 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12063.d

Injection Date: 12-Feb-2018 13:38:59 Instrument ID: LC_LCMS7

Lims ID: CCV L5

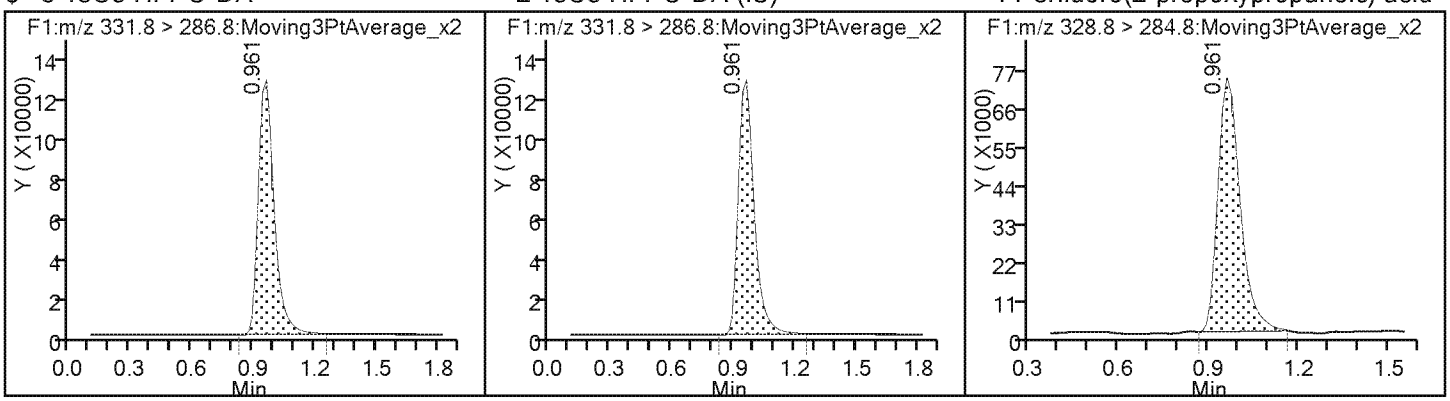
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 30

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404641/41 Calibration Date: 02/12/2018 14:14

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12074.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.116		10.5	10.0	4.5	20.0
13C3 HFPO-DA	Ave	74660	65647		8.79	10.0	-12.1	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12074.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 14:14:58 ALS Bottle#: 7 Worklist Smp#: 41
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:30 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	656470	8.79	1480	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		656470	10.0	1480	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	732478	10.5	159	

Reagents:

HFPO_CAL-6_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:31:30 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12074.d

Injection Date: 12-Feb-2018 14:14:58 Instrument ID: LC_LCMS7

Lims ID: CCV L6

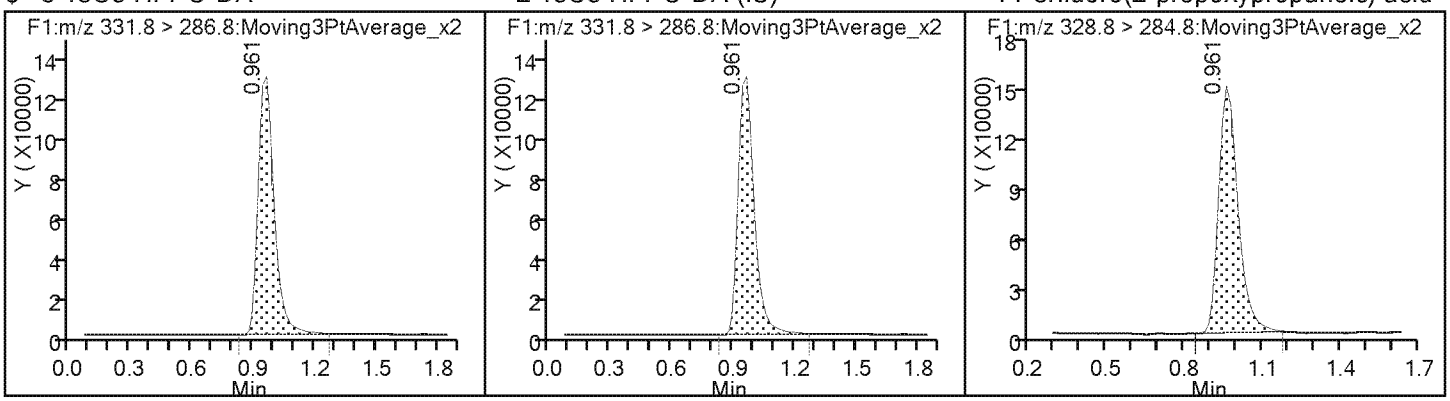
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 41

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Lab Sample ID: CCV 280-404641/48 Calibration Date: 02/12/2018 14:37

Instrument ID: LC_LCMS7 Calib Start Date: 02/08/2018 13:05

GC Column: Synergi Hydro ID: Calib End Date: 02/08/2018 13:31

Lab File ID: hfpo718B12081.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.195		5.58	5.00	11.6	20.0
13C3 HFPO-DA	Ave	74660	66149		8.86	10.0	-11.4	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12081.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 12-Feb-2018 14:37:48 ALS Bottle#: 6 Worklist Smp#: 48
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:51:39 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:51:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	661491	8.86	1313	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		661491	10.0	1313	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	395189	5.58	157	

Reagents:

HFPO_CAL-5_00080 Amount Added: 1.00 Units: mL

Report Date: 12-Feb-2018 14:51:39 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12081.d

Injection Date: 12-Feb-2018 14:37:48 Instrument ID: LC_LCMS7

Lims ID: CCV L5

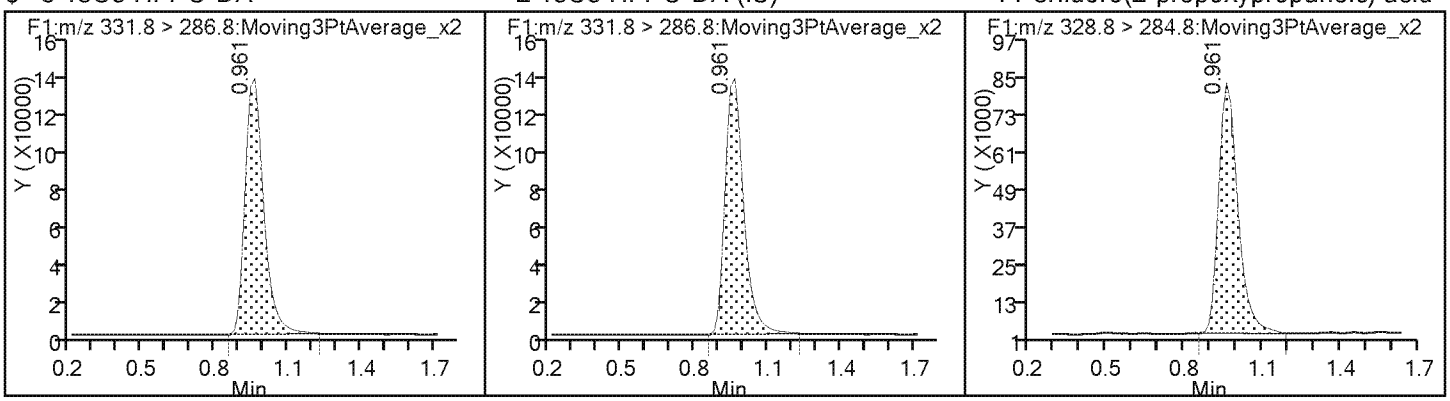
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 48

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid

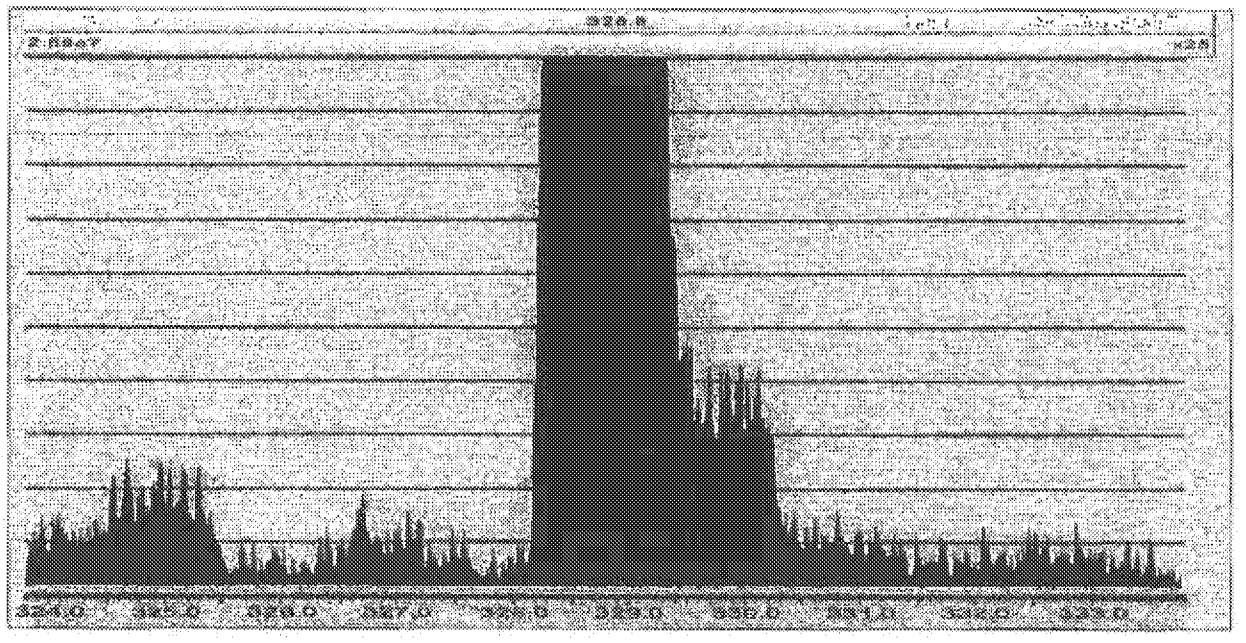


Waters Xevo TQ MS Detector Tune Parameters - MassLynx 4.1 SCN 843

File: C:\MassLynx\8321.PRO\ACQUDB\ExplosivesMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Thursday, February 08, 2018 10:16:05 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.80	333.80	

Source (ES-)	Settings	Readbacks
Capillary (kV)	2.50	2.51
Cone (V)	10.00	-17.89
Extractor (V)	3.00	-7.76
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	30	29
Desolvation Gas Flow (L/Hr)	800	796
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	4.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

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2/9/18

File: C:\MassLynx\8321.PRO\ACQUDB\ExploaIveeMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Thureday, February 08, 2018 10:16:05 Mountain Standard Time

Multiplier	523.57
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.830201e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

	R	delay
<=	0.500	0.005
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

MS 2 Delay Table:

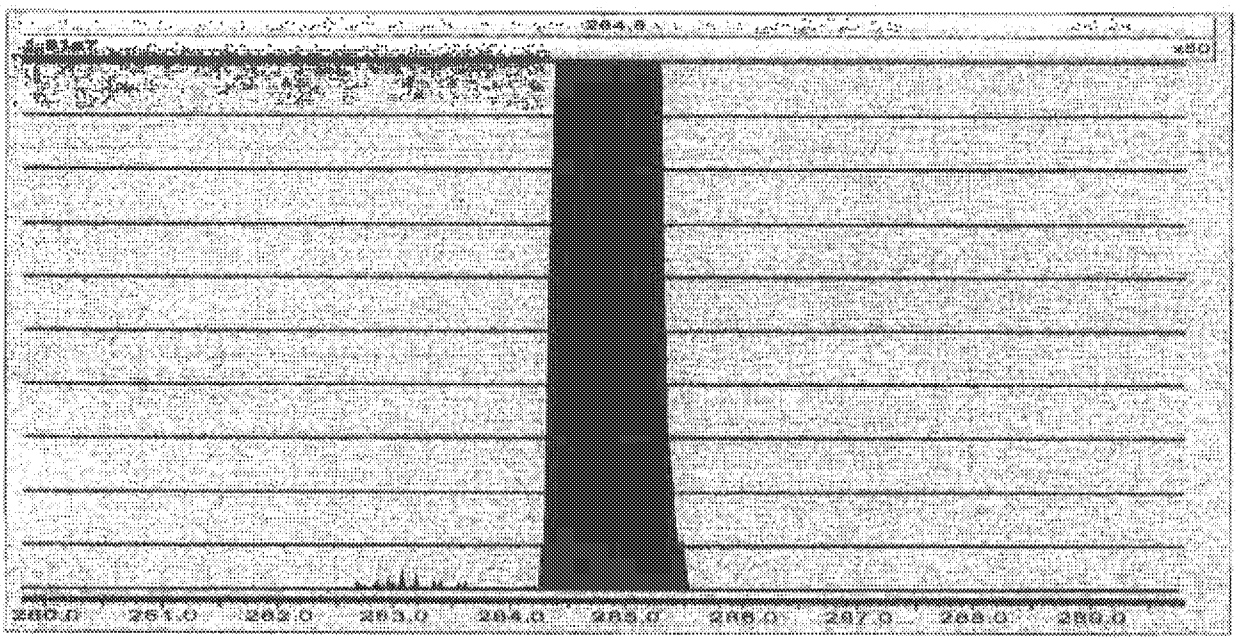
	R	delay
<=	8.000	0.005
<=	25.000	0.006
>	25.000	0.007

Waters Xevo TQ MS Detector Tune Parameters - MassLynx 4.1 SCN 843

File: C:\MassLynx\8321.PRO\ACQUDB\ExplosivesMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Thursday, February 08, 2018 10:16:49 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
Daughter Scan	279.80	289.80	328.80

Source (ES-)	Settings	Readbacks
Capillary (kV)	2.50	2.52
Cone (V)	10.00	-17.89
Extractor (V)	3.00	-7.76
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	30	30
Desolvation Gas Flow (L/Hr)	600	793
Collision Gas Flow (mL/Min)	0.15	0.14

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	4.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

chudapawn
2/9/18

File: C:\MassLynx\6321.PRO\ACQUDB\ExplosivesMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Thursday, February 08, 2018 10:16:49 Mountain Standard Time

Multiplier	523.57
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	1.220245e-003

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

	R	delay
<=	0.500	0.005
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

MS 2 Delay Table:

	R	delay
<=	8.000	0.005
<=	25.000	0.005
>	25.000	0.007

chatterjam
2/9/18

File: c:\masslynx\8321.pro\acqudb\hfpo.exp

Printed: Thursday, February 08, 2018 15:19:39 Mountain Standard Time

Creation Time	Fri 18 Nov 2016 09:08:40
Instrument Identifier	XEVO-TQMS#VBA463
Version Number	1.0
Duration (min)	2.0
Calibration Filename	C:\MassLynx\IntelliStart\Results\Unit Mass Resolution\Calibration_20100811_2.cal
Solvent Delay Divert Valve Enabled	0
Number Of Functions	1

Function 1 : MRM of 2 mass pairs, Time 0.00 to 2.00, ES-

Type	MRM
Ion Mode	ES-
Inter Channel Delay (sec)	-1.000
InterScan Time (sec)	-1.000
Span (Da)	0.5
Start Time (min)	0.0
End Time (min)	2.0

Ch	Prnt(Da)	Dau(Da)	Dwell(s)	Cone(V)	Coll(eV)	Delay(s)	Compound
1	328.80	264.80	0.400	10.00	7.00	-1.000	HFPO
2	331.80	266.80	0.400	10.00	7.00	-1.000	HFPO IS

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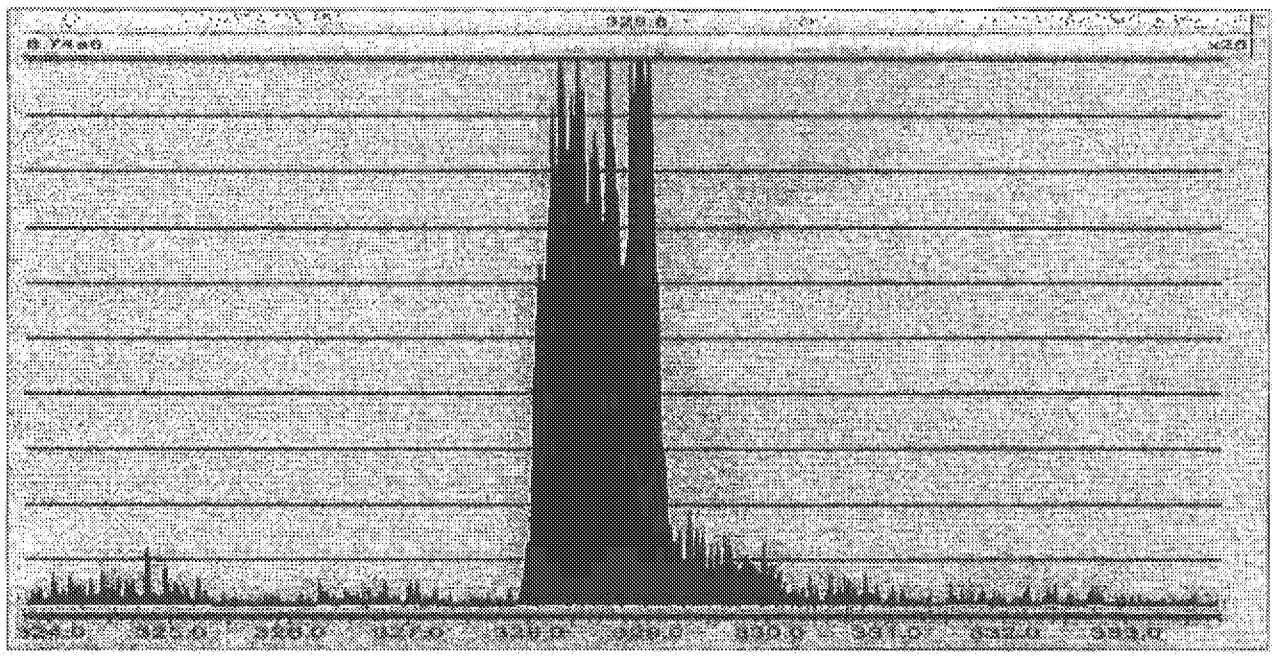
2/8/18

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Friday, February 09, 2018 08:19:12 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.80	333.80	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.54
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	50
Desolvation Gas Flow (L/Hr)	800	792
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

Chudyam
2/12/18

File: C:\MassLynx\8321.PROVACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Friday, February 09, 2018 08:19:12 Mountain Standard Time

Multiplier	524.05
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.878782e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

	R	delay
<=	0.500	0.006
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

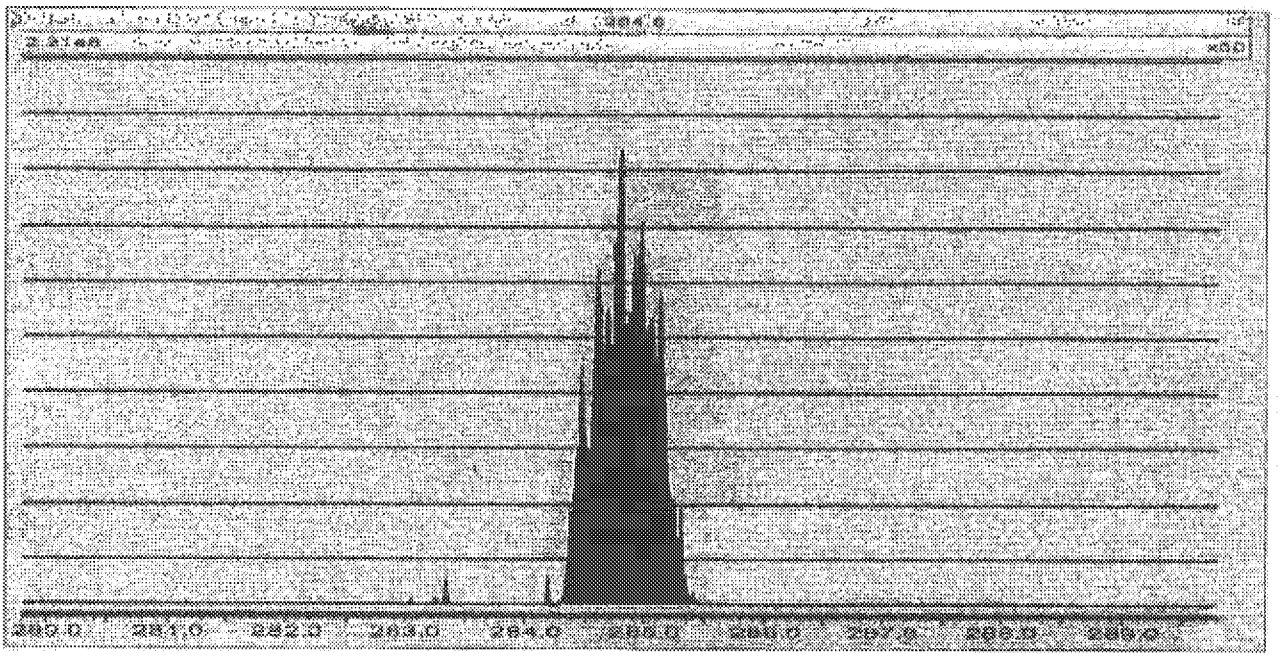
MS 2 Delay Table:

	R	delay
<=	8.000	0.006
<=	25.000	0.005
>	25.000	0.007

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Friday, February 09, 2018 08:20:18 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
Daughter Scan	279.80	289.80	328.80

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.08
Extractor (V)	3.00	-10.81
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	49
Desolvation Gas Flow (L/Hr)	800	792
Collision Gas Flow (mL/Min)	0.15	0.14

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

DNWapom
2/12/18

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Friday, February 09, 2018 08:20:18 Mountain Standard Time

Multiplier	524.05
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	1.227815e-003

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

	R	delay
<=	0.500	0.005
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

Chodapom

2/12/18

MS 2 Delay Table:

	R	delay
<=	8.000	0.005
<=	25.000	0.006
>	25.000	0.007

File: c:\masslynx\8321.pro\acqudb\hfpo.exp

Printed: Friday, February 09, 2018 11:40:34 Mountain Standard Time

Creation Time	Fri 18 Nov 2016 09:08:40
Instrument Identifier	XEVO-TQMS#VBA453
Version Number	1.0
Duration (min)	2.0
Calibration Filename	C:\MassLynx\IntelliStart\Results\Unit Mass Resolution\Calibration_20100811_2.cal
Solvent Delay Divert Valve Enabled	0
Number Of Functions	1

Function 1 : MRM of 2 mass pairs, Time 0.00 to 2.00, ES-

Type	MRM
Ion Mode	ES-
Inter Channel Delay (sec)	-1.000
InterScan Time (sec)	-1.000
Span (Da)	0.5
Start Time (min)	0.0
End Time (min)	2.0

Ch	Prnt(Da)	Dau(Da)	Dwell(s)	Cone(V)	Coll(eV)	Delay(s)	Compound
1	328.80	284.80	0.400	10.00	7.00	-1.000	HFPO
2	331.80	286.80	0.400	10.00	7.00	-1.000	HFPO IS

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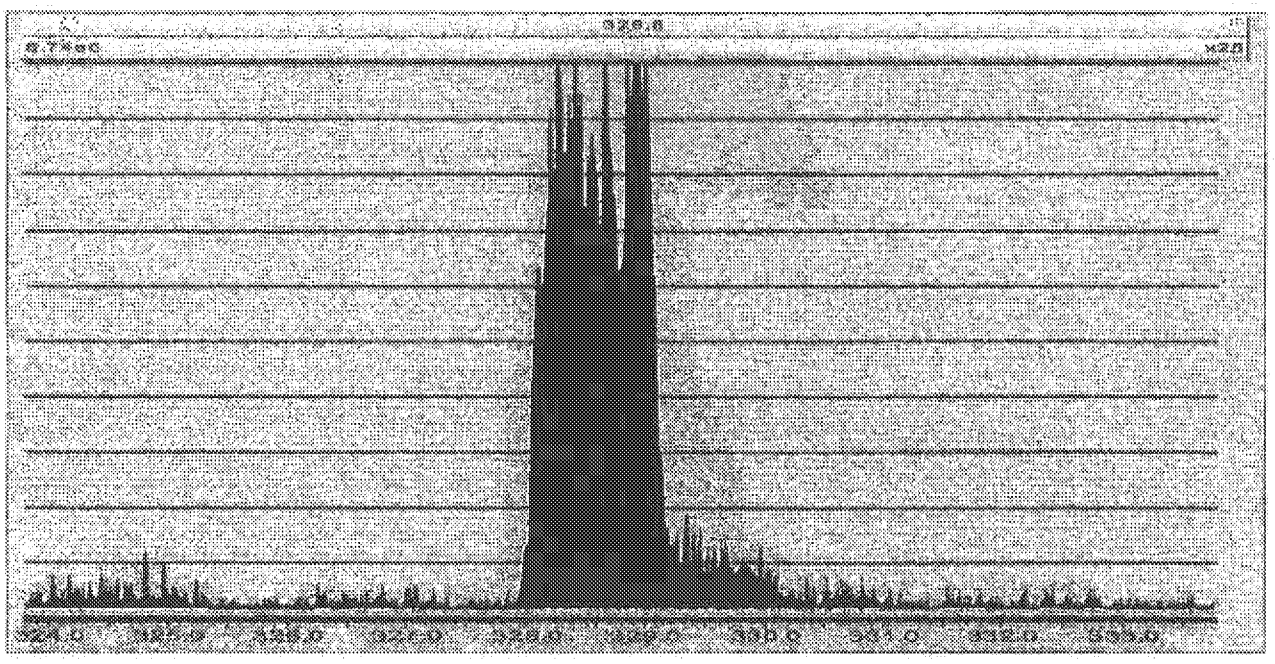
2/12/18

File: C:\MassLynx\8321.PROVACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Friday, February 09, 2018 08:19:12 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.80	333.80	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.54
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	50
Desolvation Gas Flow (L/Hr)	800	792
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

chukrom
2/12/18

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Friday, February 09, 2018 08:19:12 Mountain Standard Time

Multiplier	524.05
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	7.878782e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

	R	delay
<=	0.500	0.005
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

MS 2 Delay Table:

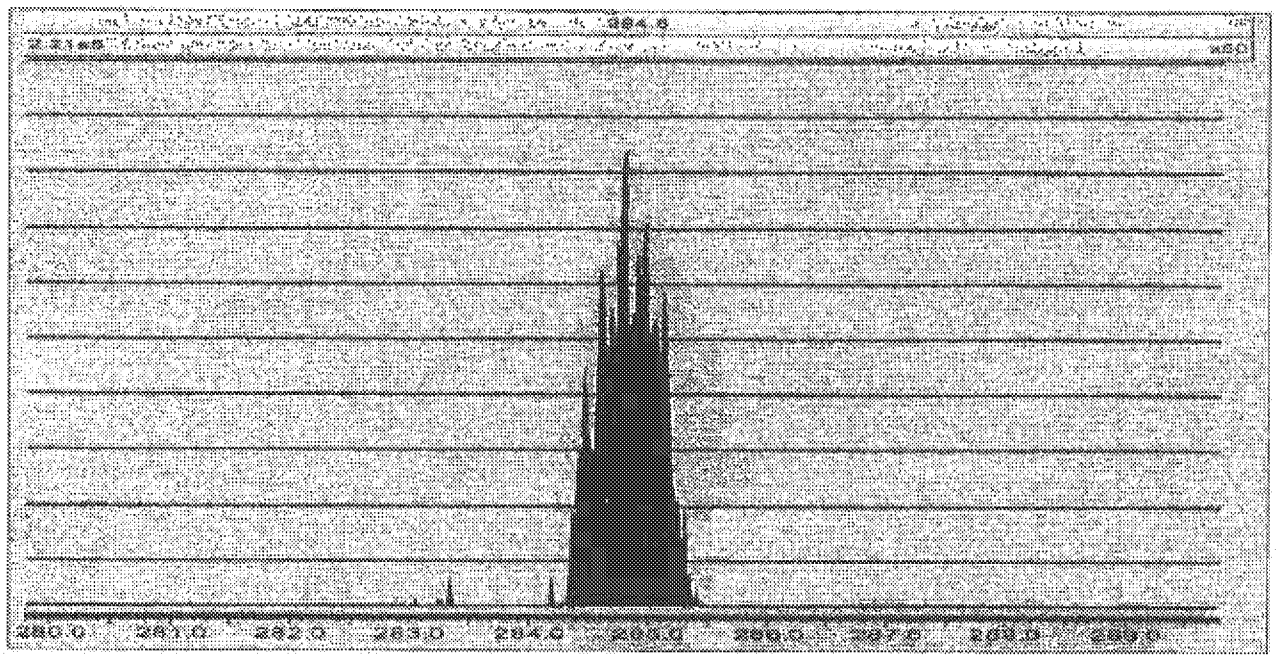
	R	delay
<=	8.000	0.005
<=	25.000	0.005
>	25.000	0.007

Chudapam
2/12/18

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Friday, February 09, 2018 08:20:18 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
Daughter Scan	279.80	289.80	328.80

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	49
Desolvation Gas Flow (L/Hr)	800	792
Collision Gas Flow (mL/Min)	0.15	0.14

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

chubPOM
2/12/18

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Friday, February 09, 2018 08:20:18 Mountain Standard Time

Multiplier	524.05
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	1.227815e-003

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

	R	delay
<=	0.500	0.005
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

MS 2 Delay Table:

	R	delay
<=	8.000	0.005
<=	25.000	0.005
>	25.000	0.007

chudgram
2/12/18

File: c:\masslynx\8321.pro\acqudb\hfpo.exp

Printed: Friday, February 09, 2018 11:40:34 Mountain Standard Time

Creation Time	Fri 18 Nov 2016 09:08:40
Instrument Identifier	XEVO-TQMS#VBA453
Version Number	1.0
Duration (min)	2.0
Calibration Filename	C:\MassLynx\IntelliStart\Results\Unit Mass Resolution\Calibration_20100811_2.cal
Solvent Delay Divert Valve Enabled	0
Number Of Functions	1

Function 1 : MRM of 2 mass pairs, Time 0.00 to 2.00, ES-

Type	MRM
Ion Mode	ES-
Inter Channel Delay (sec)	-1.000
InterScan Time (sec)	-1.000
Span (Da)	0.5
Start Time (min)	0.0
End Time (min)	2.0

Ch	Prnt(Da)	Dau(Da)	Dwell(s)	Cone(V)	Coll(eV)	Delay(s)	Compound
1	328.80	284.80	0.400	10.00	7.00	-1.000	HFPO
2	331.80	286.80	0.400	10.00	7.00	-1.000	HFPO IS

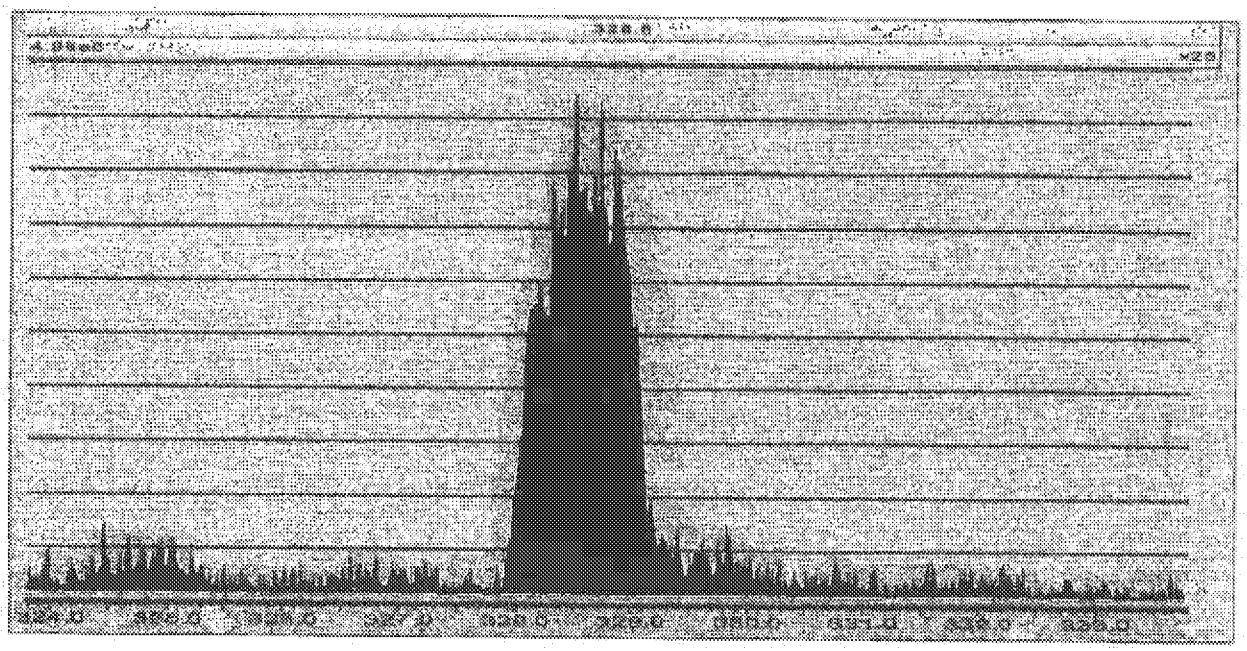
Chudenpan
2/12/18

Waters Xevo TQ MS Detector Tune Parameters - MassLynx 4.1 SCN 843

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Monday, February 12, 2018 09:32:00 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.80	333.80	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.08
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	117
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	51
Desolvation Gas Flow (L/Hr)	800	791
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

Photo
02/15/18

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA463

Printed: Monday, February 12, 2018 09:32:00 Mountain Standard Time

Multiplier 523.81
Active Reservoir A

Pressure Gauges
Collision Cell Pressure (mbar) 7.830201e-005

Instrument Configuration
Automatic Mode
MS Inter-scan delay (secs) 0.005
Polarity/Mode switch Inter-scan delay (secs) 0.020
Enhanced Inter-scan delay (secs) 0.020
Inter-channel delay - See Tables
MS 1 Delay Table:

	R	delay
<=	0.500	0.005
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

MS 2 Delay Table:

	R	delay
<=	8.000	0.005
<=	25.000	0.005
>	25.000	0.007

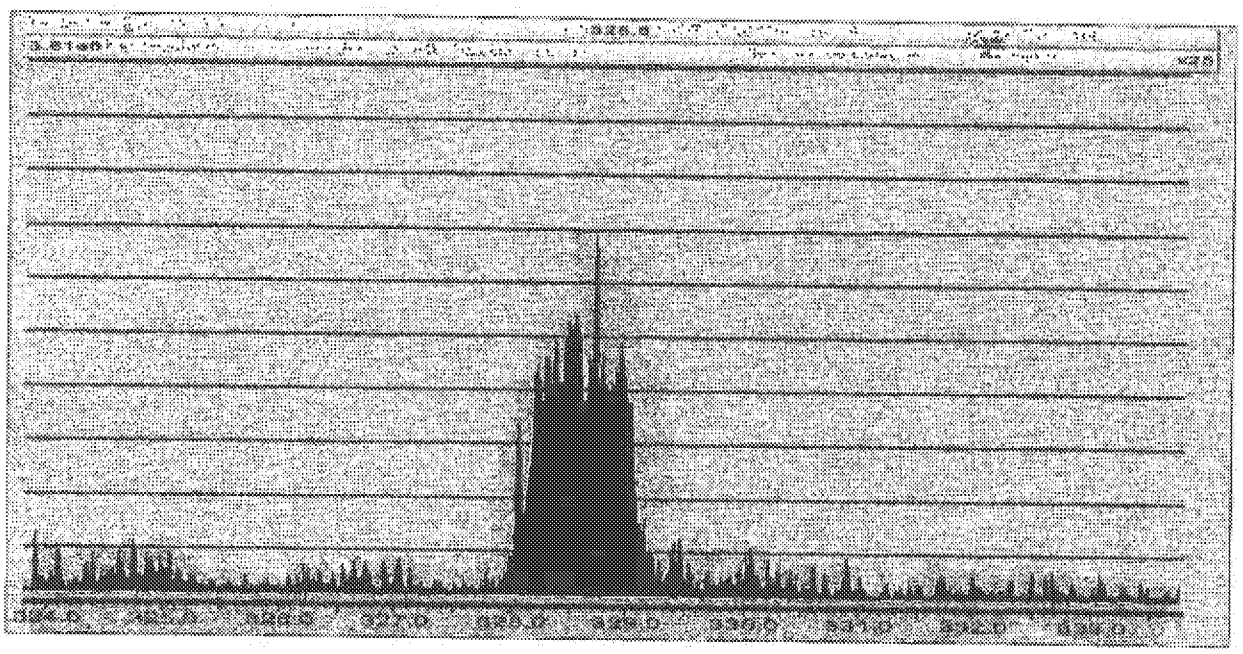
Phuong
02/13/18

Waters Xevo TQ MS Detector Tune Parameters - MassLynx 4.1 SCN 843

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Monday, February 12, 2018 10:17:43 Mountain Standard Time



Type	Start Mass	End Mass	Set Mass
MS1 Scan	323.80	333.80	

Source (ES-)	Settings	Readbacks
Capillary (kV)	0.50	0.53
Cone (V)	10.00	-21.06
Extractor (V)	3.00	-10.61
Source Temperature (°C)	120	120
Desolvation Temperature (°C)	200	200
Cone Gas Flow (L/Hr)	50	49
Desolvation Gas Flow (L/Hr)	800	792
Collision Gas Flow (mL/Min)	0.15	0.04

Analyser	Settings	Readbacks
LM 1 Resolution	2.8	
HM 1 Resolution	14.8	
Ion Energy 1	0.7	
MS Mode Collision Energy	7.00	
MSMS Mode Collision Energy	20.00	
MS Mode Entrance	0.50	
MS Mode Exit	0.50	
Gas On MS Mode Entrance	0.50	
Gas On MS Mode Exit	0.50	
Gas On MSMS Mode Entrance	0.50	
Gas On MSMS Mode Exit	0.50	
Gas Off MS Mode Entrance	30.00	
Gas Off MS Mode Exit	30.00	
Gas Off MSMS Mode Entrance	2.00	
Gas Off MSMS Mode Exit	2.00	
ScanWave MS Mode Entrance	0.50	
ScanWave MS Mode Exit	0.50	
ScanWave MSMS Mode Entrance	0.50	
ScanWave MSMS Mode Exit	0.50	
LM 2 Resolution	2.9	
HM 2 Resolution	14.7	
Ion Energy 2	0.3	

Pruitt
02/13/18

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Monday, February 12, 2018 10:17:43 Mountain Standard Time

Multiplier	523.81	
Active Reservoir	A	

Pressure Gauges

Collision Cell Pressure (mbar)	7.830201e-005

Instrument Configuration

Automatic Mode

MS Inter-scan delay (secs)	0.005	
Polarity/Mode switch Inter-scan delay (secs)		0.020
Enhanced Inter-scan delay (secs)		0.020

Inter-channel delay - See Tables

MS 1 Delay Table:

	R	delay
<=	0.500	0.005
<=	2.000	0.008
<=	4.000	0.010
<=	11.000	0.012
>	11.000	0.014

MS 2 Delay Table:

	R	delay
<=	8.000	0.005
<=	25.000	0.005
>	25.000	0.007

Phuiya
02/10/18

File: c:\masslynx\8321.pro\acqudb\hfpo.exp

Printed: Monday, February 12, 2018 14:22:03 Mountain Standard Time

Creation Time	Fri 18 Nov 2016 09:08:40
Instrument Identifier	XEVO-TQMS#VBA463
Version Number	1.0
Duration (min)	2.0
Calibration Filename	C:\MassLynx\IntelliStart\Results\Unit Mass Resolution\Calibration_20100811_2.cal
Solvent Delay Divert Valve Enabled	0
Number Of Functions	1

Function 1 : MRM of 2 mass pairs, Time 0.00 to 2.00, ES-

Type	MRM
Ion Mode	ES-
Inter Channel Delay (sec)	-1.000
InterScan Time (sec)	-1.000
Span (Da)	0.6
Start Time (min)	0.0
End Time (min)	2.0

Ch	Prnt(Da)	Dau(Da)	Dwell(s)	Cone(V)	Coll(eV)	Delay(s)	Compound
1	328.80	284.80	0.400	10.00	7.00	-1.000	HFPO
2	331.80	286.80	0.400	10.00	7.00	-1.000	HFPO IS

Phuong
2/12/18

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-404157/1-A
Matrix: Water
Lab File ID: hfpo718B08046.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/07/2018 10:33
Sample wt/vol: 250(mL)
Date Analyzed: 02/08/2018 13:44
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404346
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08046.d
Lims ID: MB 280-404157/1-A
Client ID:
Sample Type: MB
Inject. Date: 08-Feb-2018 13:44:29 ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404157/1-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:44

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.029	1.045	-0.016	1.000	833686	11.2	1494	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.029	1.045	-0.016		833686	10.0	1494	

Report Date: 08-Feb-2018 15:24:20 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08046.d

Injection Date: 08-Feb-2018 13:44:29 Instrument ID: LC_LCMS7

Lims ID: MB 280-404157/1-A

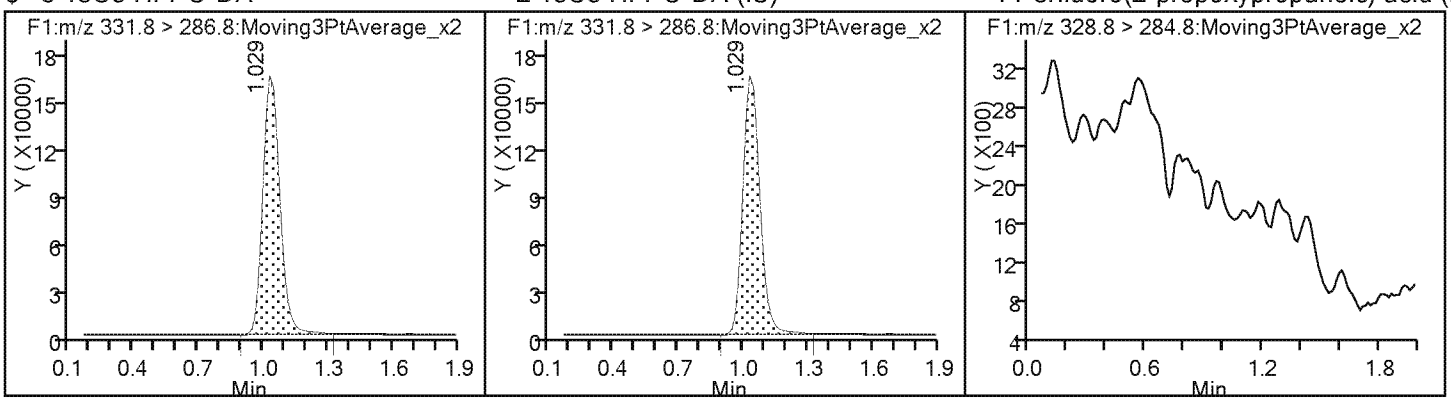
Client ID:

Operator ID: JBH ALS Bottle#: 12 Worklist Smp#: 15

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08046.d
Lims ID: MB 280-404157/1-A
Client ID:
Sample Type: MB
Inject. Date: 08-Feb-2018 13:44:29 ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404157/1-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.2	111.66

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-404355/1-A
Matrix: Water
Lab File ID: hfpo718B09014.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 250(mL)
Date Analyzed: 02/09/2018 09:21
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	96		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09014.d
Lims ID: MB 280-404355/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Feb-2018 09:21:34 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404355/1-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:02

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.988	1.045	-0.057	1.000	716744	9.60	1534	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.988	1.045	-0.057		716744	10.0	1534	

Report Date: 09-Feb-2018 12:02:00 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09014.d

Injection Date: 09-Feb-2018 09:21:34 Instrument ID: LC_LCMS7

Lims ID: MB 280-404355/1-A

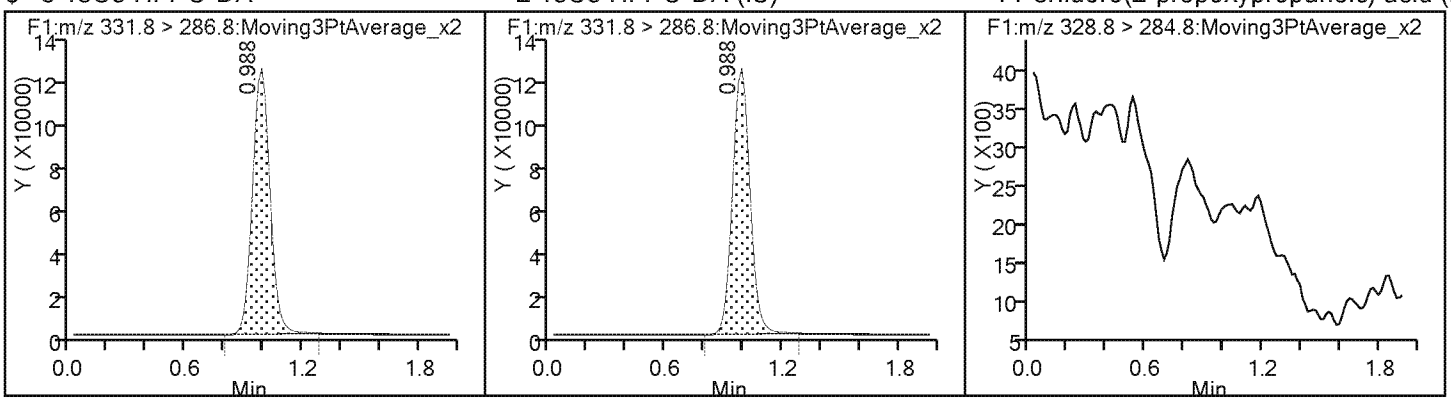
Client ID:

Operator ID: JBH ALS Bottle#: 12 Worklist Smp#: 4

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09014.d
Lims ID: MB 280-404355/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Feb-2018 09:21:34 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404355/1-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.60	96.00

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-404356/1-A
Matrix: Water
Lab File ID: hfpo718B09043.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 250(mL)
Date Analyzed: 02/09/2018 10:55
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09043.d
Lims ID: MB 280-404356/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Feb-2018 10:55:55 ALS Bottle#: 38 Worklist Smp#: 33
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404356/1-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:52:55

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	712434	9.54	1223	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		712434	10.0	1223	

Report Date: 09-Feb-2018 12:55:57 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09043.d

Injection Date: 09-Feb-2018 10:55:55 Instrument ID: LC_LCMS7

Lims ID: MB 280-404356/1-A

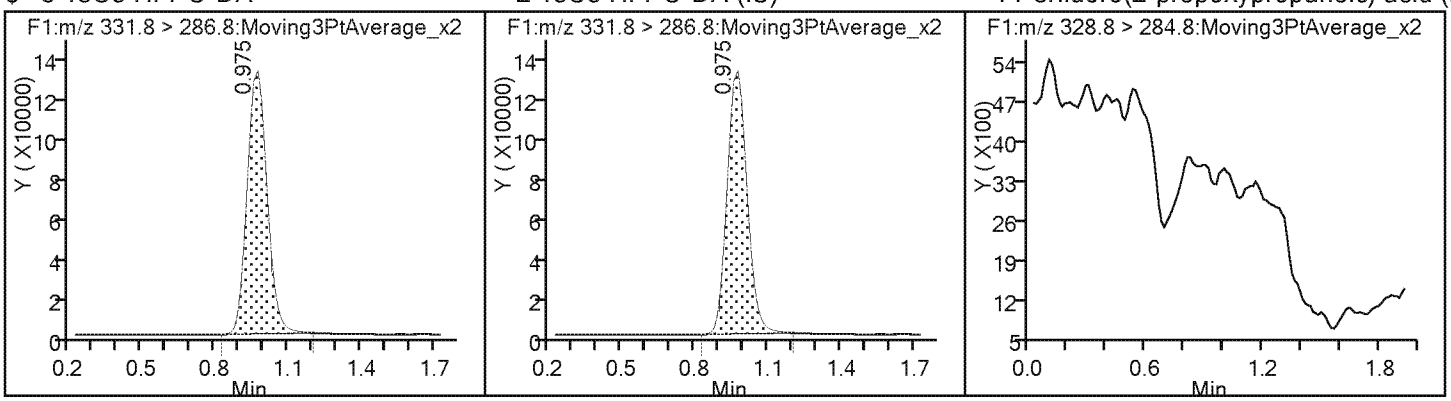
Client ID:

Operator ID: JBH ALS Bottle#: 38 Worklist Smp#: 33

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09043.d
Lims ID: MB 280-404356/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Feb-2018 10:55:55 ALS Bottle#: 38 Worklist Smp#: 33
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404356/1-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:52:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.54	95.42

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-404517/1-A
Matrix: Water
Lab File ID: hfpo718B12037.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 250(mL)
Date Analyzed: 02/12/2018 12:14
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	65		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12037.d
Lims ID: MB 280-404517/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 12:14:26 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404517/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:25

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	484010	6.48	1437	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		484010	10.0	1437	

Report Date: 12-Feb-2018 14:30:57 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12037.d

Injection Date: 12-Feb-2018 12:14:26 Instrument ID: LC_LCMS7

Lims ID: MB 280-404517/1-A

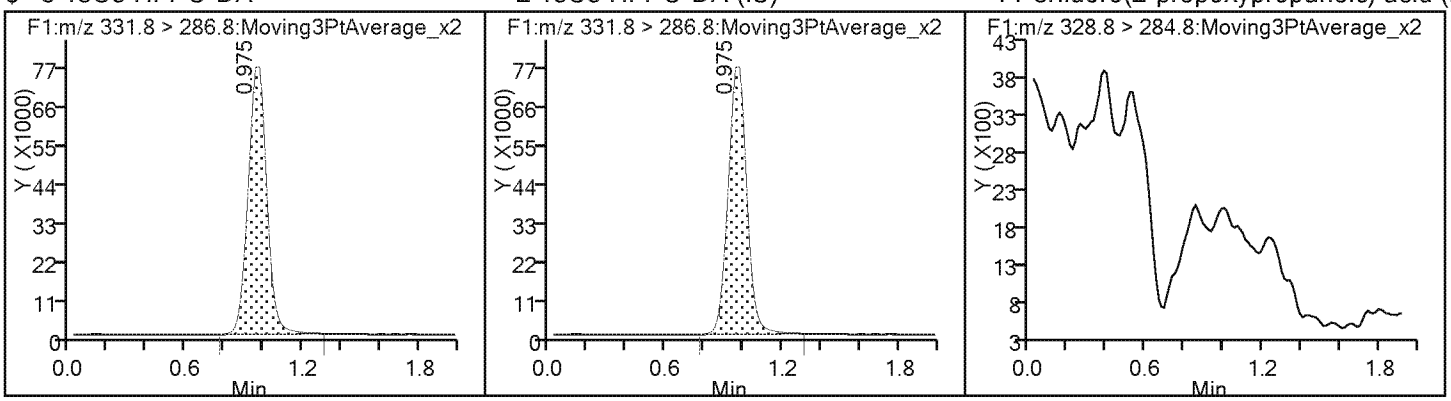
Client ID:

Operator ID: JBH ALS Bottle#: 12 Worklist Smp#: 4

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12037.d
Lims ID: MB 280-404517/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 12:14:26 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404517/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.48	64.83

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-404518/1-A
Matrix: Water
Lab File ID: hfpo718B12064.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 250(mL)
Date Analyzed: 02/12/2018 13:42
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.010		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	74		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12064.d
Lims ID: MB 280-404518/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 13:42:13 ALS Bottle#: 36 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404518/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:54

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	549109	7.35	1069	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		549109	10.0	1069	

Report Date: 12-Feb-2018 14:31:22 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12064.d

Injection Date: 12-Feb-2018 13:42:13 Instrument ID: LC_LCMS7

Lims ID: MB 280-404518/1-A

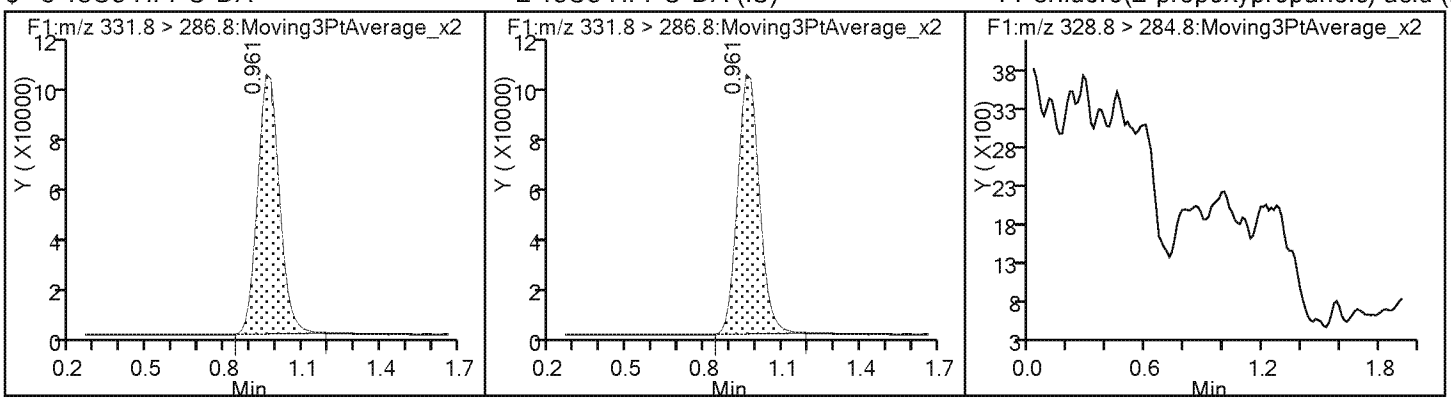
Client ID:

Operator ID: JBH ALS Bottle#: 36 Worklist Smp#: 31

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12064.d
Lims ID: MB 280-404518/1-A
Client ID:
Sample Type: MB
Inject. Date: 12-Feb-2018 13:42:13 ALS Bottle#: 36 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-404518/1-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.35	73.55

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: ICB 280-404345/12
Matrix: Water
Lab File ID: hfpo718B08043.d
Analysis Method: 8321A
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 1(mL)
Date Analyzed: 02/08/2018 13:34
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404345
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.50		0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08043.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 08-Feb-2018 13:34:46 ALS Bottle#: 1 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:42

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.056	1.045	0.011	1.000	772269	10.3	1251	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.056	1.045	0.011		772269	10.0	1251	

Reagents:

HFPO_CAL-0_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:18 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08043.d

Injection Date: 08-Feb-2018 13:34:46 Instrument ID: LC_LCMS7

Lims ID: ICB

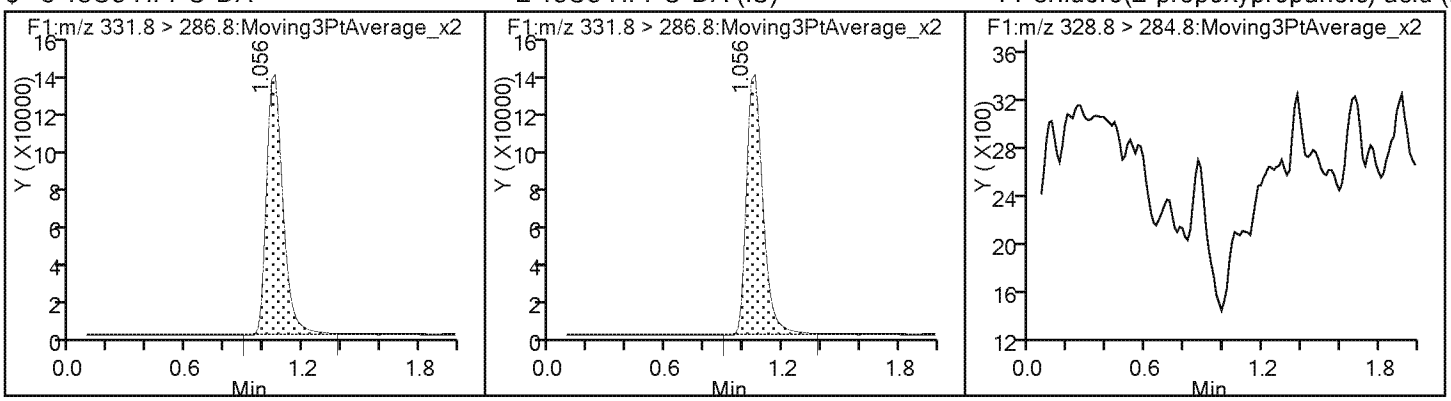
Client ID:

Operator ID: JBH ALS Bottle#: 1 Worklist Smp#: 12

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08043.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 08-Feb-2018 13:34:46 ALS Bottle#: 1 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:19:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.3	103.44

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-404157/2-A
Matrix: Water
Lab File ID: hfpo718B08047.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/07/2018 10:33
Sample wt/vol: 250(mL)
Date Analyzed: 02/08/2018 13:47
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404346
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.160		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08047.d
Lims ID: LCS 280-404157/2-A
Client ID:
Sample Type: LCS
Inject. Date: 08-Feb-2018 13:47:43 ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404157/2-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:46

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.975	1.045	-0.070	1.000	839755	11.2	1245	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.975	1.045	-0.070		839755	10.0	1245	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.975	1.056	-0.081	1.000	716242	7.98	269	

Report Date: 08-Feb-2018 15:24:20 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08047.d

Injection Date: 08-Feb-2018 13:47:43 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404157/2-A

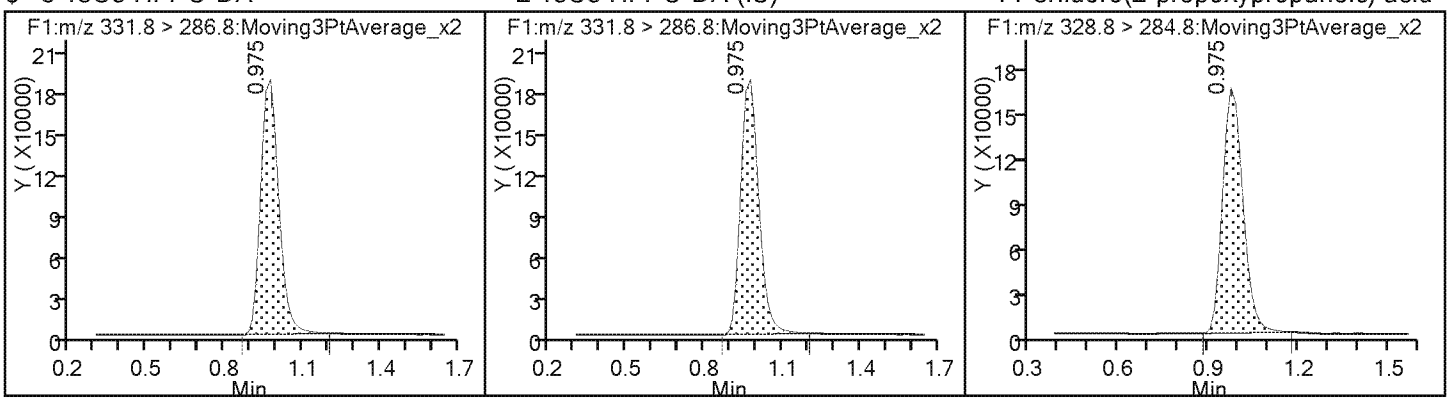
Client ID:

Operator ID: JBH ALS Bottle#: 13 Worklist Smp#: 16

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08047.d
Lims ID: LCS 280-404157/2-A
Client ID:
Sample Type: LCS
Inject. Date: 08-Feb-2018 13:47:43 ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404157/2-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.2	112.48

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-404355/2-A
Matrix: Water
Lab File ID: hfpo718B09015.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 250(mL)
Date Analyzed: 02/09/2018 09:24
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.227		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09015.d
Lims ID: LCS 280-404355/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Feb-2018 09:24:48 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404355/2-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:04

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	684218	9.16	1527	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		684218	10.0	1527	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	830317	11.4	281	

Report Date: 09-Feb-2018 12:02:01 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09015.d

Injection Date: 09-Feb-2018 09:24:48 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404355/2-A

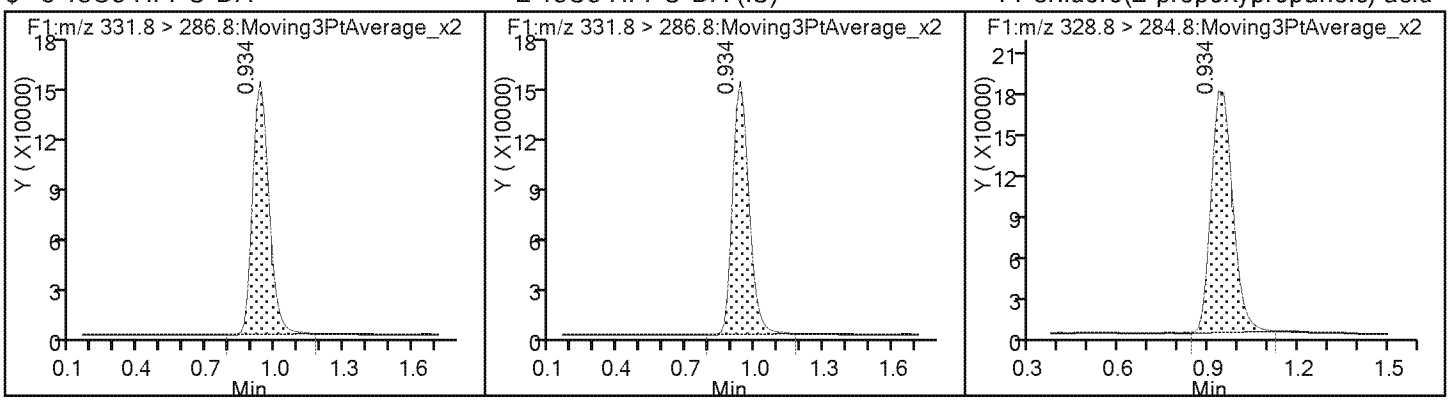
Client ID:

Operator ID: JBH ALS Bottle#: 13 Worklist Smp#: 5

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09015.d
Lims ID: LCS 280-404355/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Feb-2018 09:24:48 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404355/2-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.16	91.64

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-404356/2-A
Matrix: Water
Lab File ID: hfpo718B09044.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 250(mL)
Date Analyzed: 02/09/2018 10:59
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.235		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09044.d
Lims ID: LCS 280-404356/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Feb-2018 10:59:12 ALS Bottle#: 39 Worklist Smp#: 34
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404356/2-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:52:57

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	758485	10.2	1371	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		758485	10.0	1371	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	952592	11.8	194	

Report Date: 09-Feb-2018 12:55:58 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09044.d

Injection Date: 09-Feb-2018 10:59:12 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404356/2-A

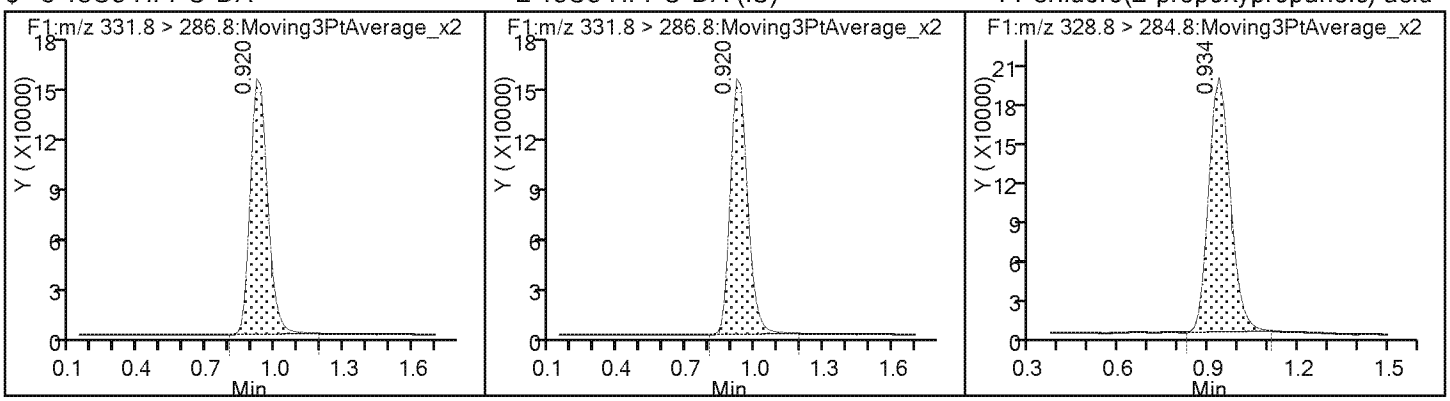
Client ID:

Operator ID: JBH ALS Bottle#: 39 Worklist Smp#: 34

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09044.d
Lims ID: LCS 280-404356/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Feb-2018 10:59:12 ALS Bottle#: 39 Worklist Smp#: 34
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404356/2-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:52:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.2	101.59

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-404517/2-A
Matrix: Water
Lab File ID: hfpo718B12038.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 250(mL)
Date Analyzed: 02/12/2018 12:17
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.201		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	62		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12038.d
Lims ID: LCS 280-404517/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 12:17:40 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404517/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:27

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	465116	6.23	1260	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		465116	10.0	1260	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	499014	10.1	124	

Report Date: 12-Feb-2018 14:30:58 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12038.d

Injection Date: 12-Feb-2018 12:17:40 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404517/2-A

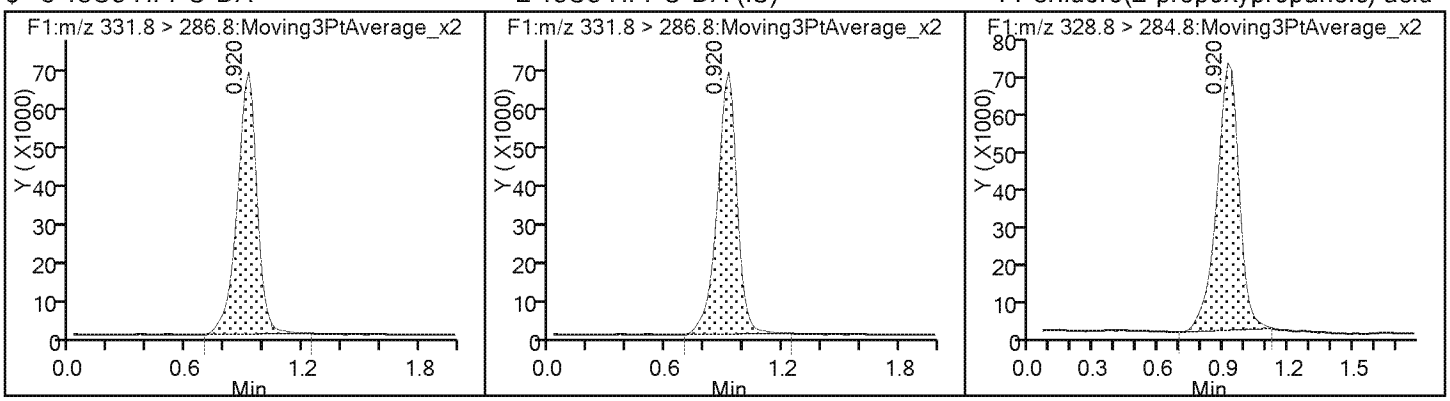
Client ID:

Operator ID: JBH ALS Bottle#: 13 Worklist Smp#: 5

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12038.d
Lims ID: LCS 280-404517/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 12:17:40 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404517/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.23	62.30

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-404518/2-A
Matrix: Water
Lab File ID: hfpo718B12065.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 250(mL)
Date Analyzed: 02/12/2018 13:45
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.203		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	74		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12065.d
Lims ID: LCS 280-404518/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 13:45:29 ALS Bottle#: 37 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404518/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:56

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	553166	7.41	1715	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		553166	10.0	1715	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	599626	10.2	217	

Report Date: 12-Feb-2018 14:31:23 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12065.d

Injection Date: 12-Feb-2018 13:45:29 Instrument ID: LC_LCMS7

Lims ID: LCS 280-404518/2-A

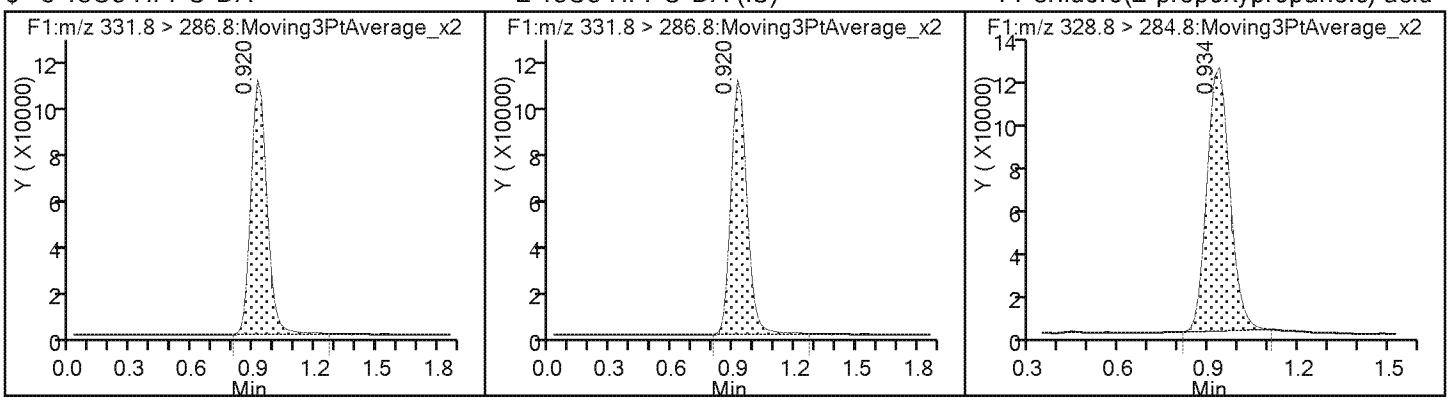
Client ID:

Operator ID: JBH ALS Bottle#: 37 Worklist Smp#: 32

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12065.d
Lims ID: LCS 280-404518/2-A
Client ID:
Sample Type: LCS
Inject. Date: 12-Feb-2018 13:45:29 ALS Bottle#: 37 Worklist Smp#: 32
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-404518/2-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.41	74.09

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-404157/3-A
Matrix: Water
Lab File ID: hfpo718B08048.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/07/2018 10:33
Sample wt/vol: 250(mL)
Date Analyzed: 02/08/2018 13:50
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404346
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.160		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	119		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08048.d
Lims ID: LCSD 280-404157/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 08-Feb-2018 13:50:57 ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404157/3-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:48

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	892010	11.9	1503	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		892010	10.0	1503	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.975	1.056	-0.081	1.000	764000	8.02	221	

Report Date: 08-Feb-2018 15:24:21 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08048.d

Injection Date: 08-Feb-2018 13:50:57 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404157/3-A

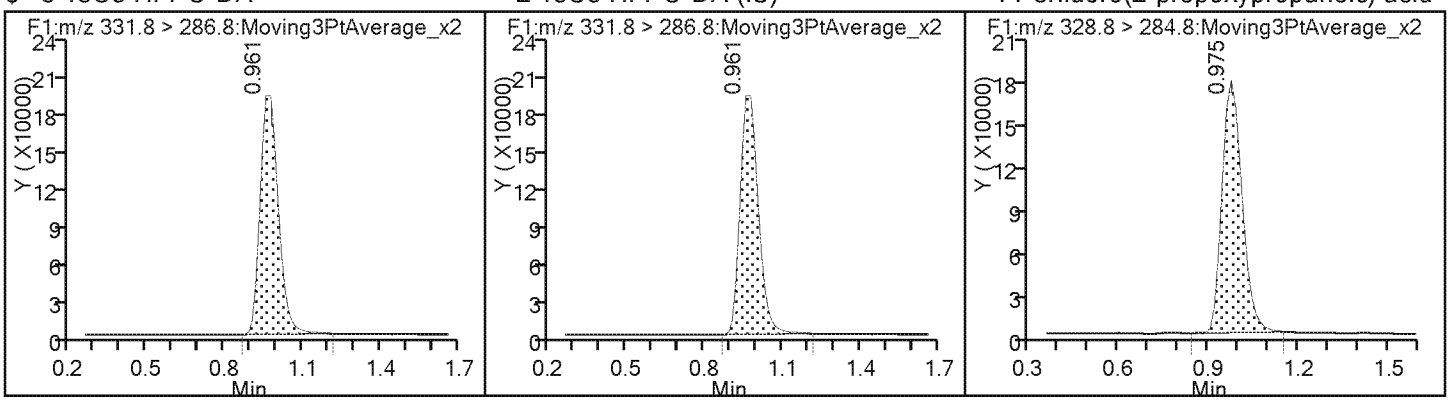
Client ID:

Operator ID: JBH ALS Bottle#: 14 Worklist Smp#: 17

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08048.d
Lims ID: LCSD 280-404157/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 08-Feb-2018 13:50:57 ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404157/3-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.9	119.48

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-404355/3-A
Matrix: Water
Lab File ID: hfpo718B09016.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 250(mL)
Date Analyzed: 02/09/2018 09:28
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.212		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09016.d
Lims ID: LCSD 280-404355/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Feb-2018 09:28:03 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404355/3-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:07

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	782370	10.5	1231	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		782370	10.0	1231	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	885291	10.6	281	

Report Date: 09-Feb-2018 12:02:03 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09016.d

Injection Date: 09-Feb-2018 09:28:03 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404355/3-A

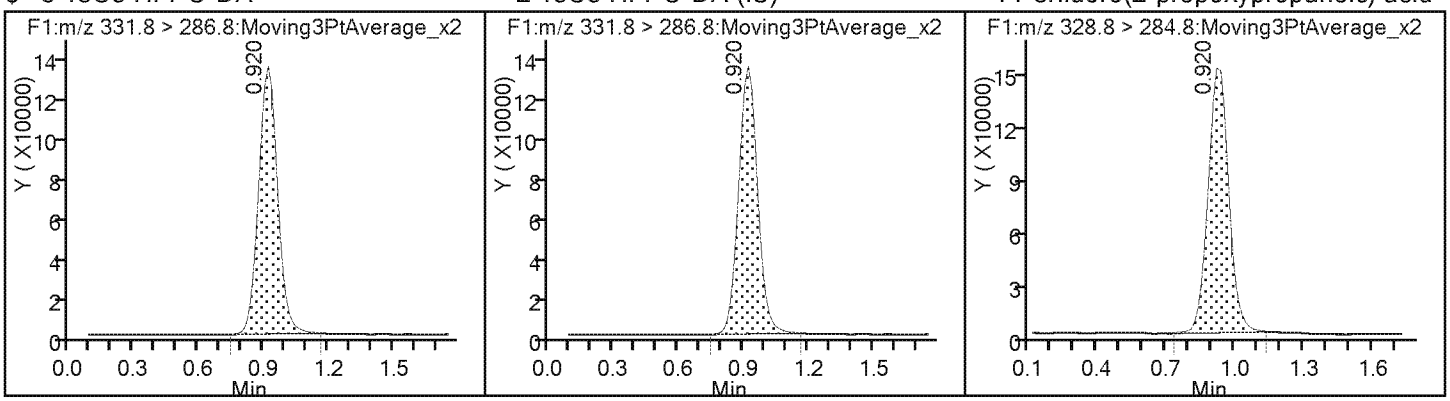
Client ID:

Operator ID: JBH ALS Bottle#: 14 Worklist Smp#: 6

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09016.d
Lims ID: LCSD 280-404355/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Feb-2018 09:28:03 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404355/3-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.5	104.79

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-404356/3-A
Matrix: Water
Lab File ID: hfpo718B09045.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 250(mL)
Date Analyzed: 02/09/2018 11:02
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.194		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	101		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09045.d
Lims ID: LCSD 280-404356/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Feb-2018 11:02:28 ALS Bottle#: 40 Worklist Smp#: 35
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404356/3-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:00

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	757395	10.1	1129	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		757395	10.0	1129	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	784474	9.70	132	

Report Date: 09-Feb-2018 12:55:58 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09045.d

Injection Date: 09-Feb-2018 11:02:28 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404356/3-A

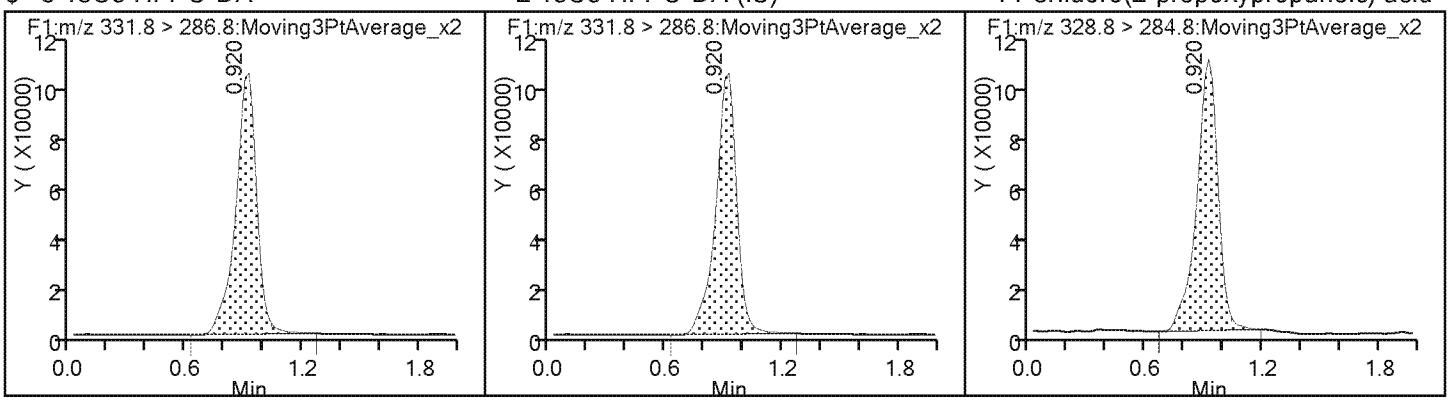
Client ID:

Operator ID: JBH ALS Bottle#: 40 Worklist Smp#: 35

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09045.d
Lims ID: LCSD 280-404356/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 09-Feb-2018 11:02:28 ALS Bottle#: 40 Worklist Smp#: 35
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404356/3-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.1	101.45

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-404517/3-A
Matrix: Water
Lab File ID: hfpo718B12039.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 250(mL)
Date Analyzed: 02/12/2018 12:20
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.205		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	66		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12039.d
Lims ID: LCSD 280-404517/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 12:20:54 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404517/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	493078	6.60	1505	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		493078	10.0	1505	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	538367	10.2	190	

Report Date: 12-Feb-2018 14:30:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12039.d

Injection Date: 12-Feb-2018 12:20:54 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404517/3-A

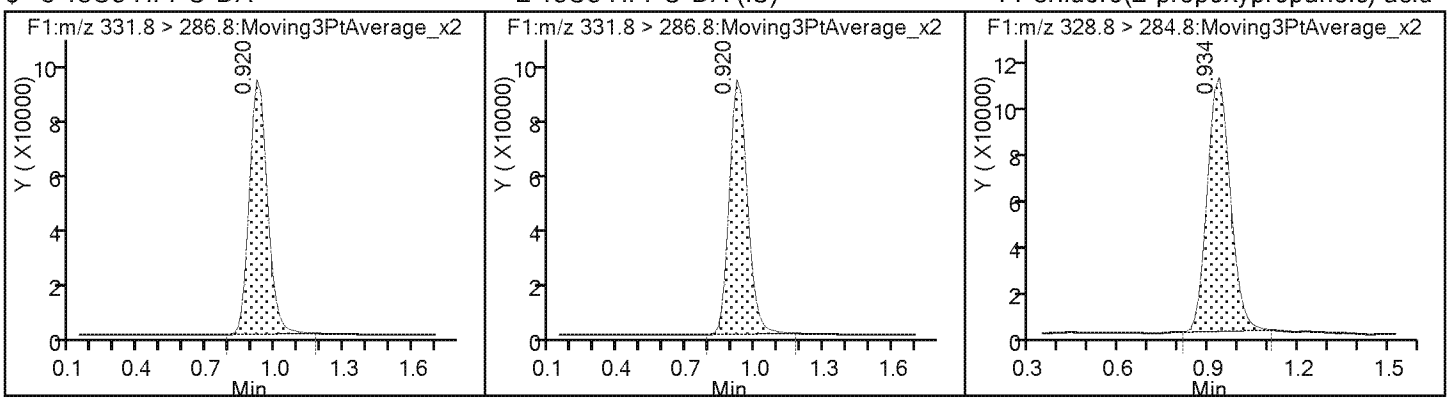
Client ID:

Operator ID: JBH ALS Bottle#: 14 Worklist Smp#: 6

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12039.d
Lims ID: LCSD 280-404517/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 12:20:54 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404517/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.60	66.04

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-404518/3-A
Matrix: Water
Lab File ID: hfpo718B12066.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 250(mL)
Date Analyzed: 02/12/2018 13:48
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.212		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	71		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12066.d
Lims ID: LCSD 280-404518/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 13:48:45 ALS Bottle#: 38 Worklist Smp#: 33
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404518/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:58

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	530203	7.10	1602	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		530203	10.0	1602	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	600249	10.6	199	

Report Date: 12-Feb-2018 14:31:24 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12066.d

Injection Date: 12-Feb-2018 13:48:45 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-404518/3-A

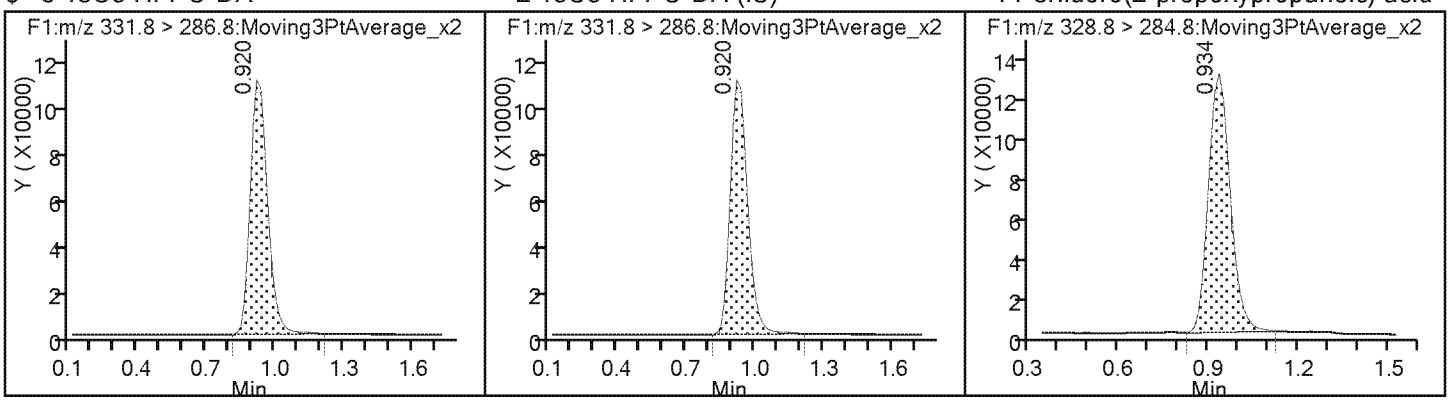
Client ID:

Operator ID: JBH ALS Bottle#: 38 Worklist Smp#: 33

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12066.d
Lims ID: LCSD 280-404518/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 12-Feb-2018 13:48:45 ALS Bottle#: 38 Worklist Smp#: 33
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-404518/3-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:29:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.10	71.02

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LLCS 280-404157/4-A
Matrix: Water
Lab File ID: hfpo718B08049.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/07/2018 10:33
Sample wt/vol: 250(mL)
Date Analyzed: 02/08/2018 13:54
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404346
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0148		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	119		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08049.d
Lims ID: LLCS 280-404157/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 08-Feb-2018 13:54:12 ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404157/4-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:51

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.961	1.045	-0.084	1.000	887377	11.9	1753	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		887377	10.0	1753	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	73029	0.7397	23.1	

Report Date: 08-Feb-2018 15:24:21 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08049.d

Injection Date: 08-Feb-2018 13:54:12 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404157/4-A

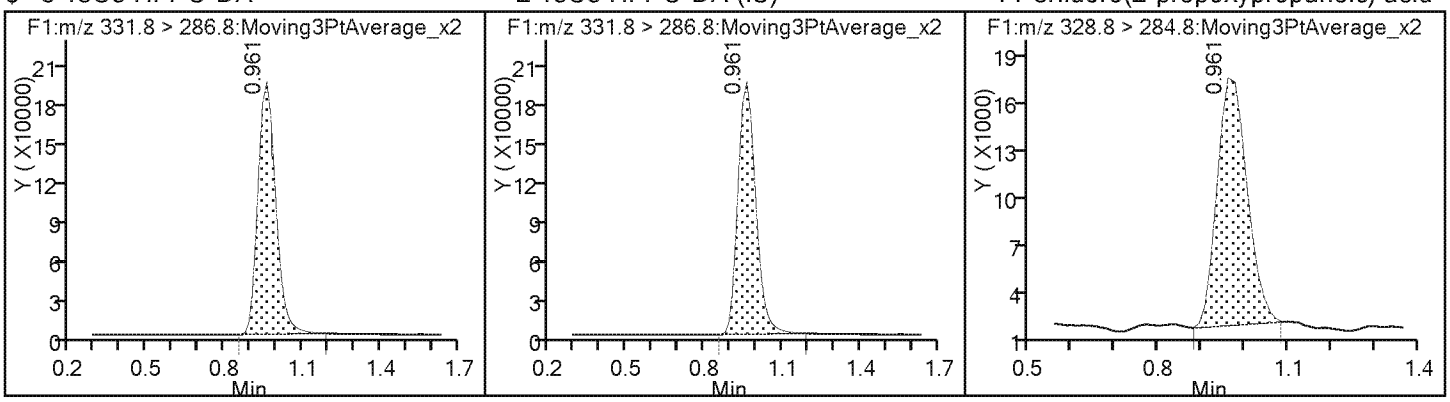
Client ID:

Operator ID: JBH ALS Bottle#: 15 Worklist Smp#: 18

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08049.d
Lims ID: LLCS 280-404157/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 08-Feb-2018 13:54:12 ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404157/4-A
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:19 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.9	118.86

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LLCS 280-404355/4-A
Matrix: Water
Lab File ID: hfpo718B09017.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/08/2018 17:57
Sample wt/vol: 250(mL)
Date Analyzed: 02/09/2018 09:31
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404457
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0203		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09017.d
Lims ID: LLCS 280-404355/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 09-Feb-2018 09:31:18 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404355/4-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:09

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	687459	9.21	1708	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		687459	10.0	1708	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	76686	1.01	18.7	

Report Date: 09-Feb-2018 12:02:05 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09017.d

Injection Date: 09-Feb-2018 09:31:18 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404355/4-A

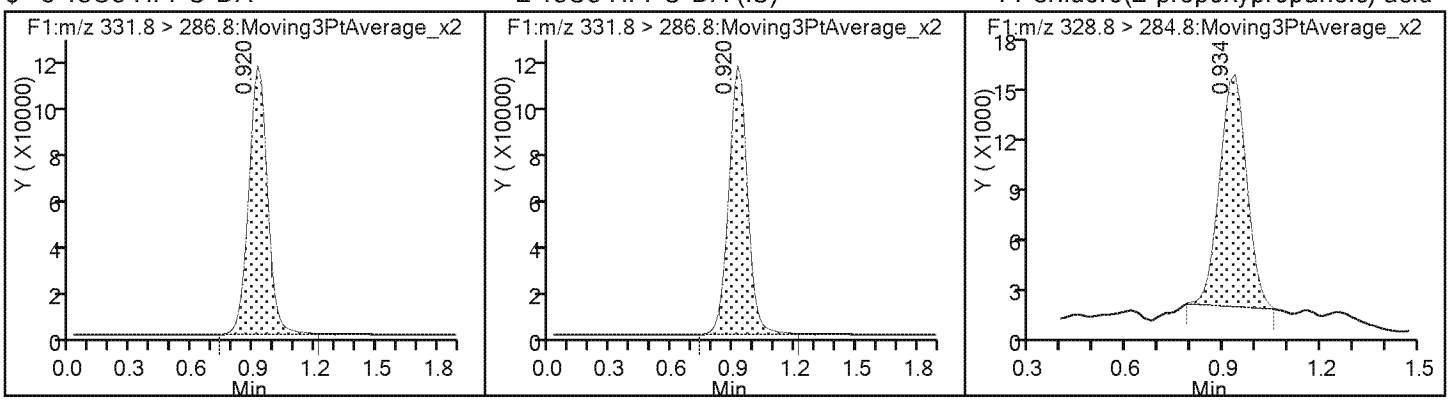
Client ID:

Operator ID: JBH ALS Bottle#: 15 Worklist Smp#: 7

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09017.d
Lims ID: LLCS 280-404355/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 09-Feb-2018 09:31:18 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404355/4-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:01:57 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 11:59:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.21	92.08

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LLCS 280-404356/4-A
Matrix: Water
Lab File ID: hfpo718B09046.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 250(mL)
Date Analyzed: 02/09/2018 11:05
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0238		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09046.d
Lims ID: LLCS 280-404356/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 09-Feb-2018 11:05:45 ALS Bottle#: 41 Worklist Smp#: 36
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404356/4-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:02

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	743844	9.96	1071	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		743844	10.0	1071	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	96705	1.19	21.5	

Report Date: 09-Feb-2018 12:55:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09046.d

Injection Date: 09-Feb-2018 11:05:45 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404356/4-A

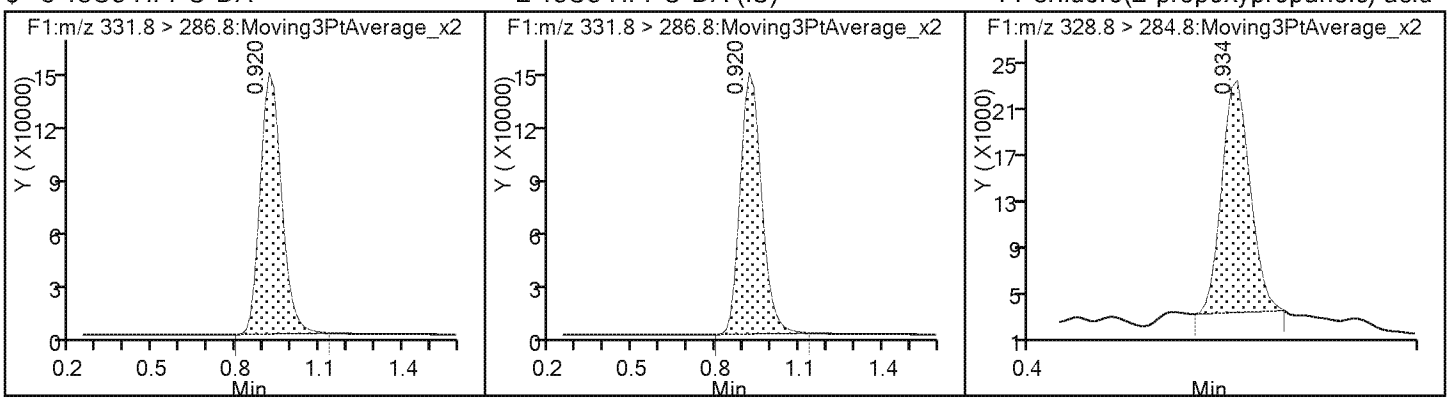
Client ID:

Operator ID: JBH ALS Bottle#: 41 Worklist Smp#: 36

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09046.d
Lims ID: LLCS 280-404356/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 09-Feb-2018 11:05:45 ALS Bottle#: 41 Worklist Smp#: 36
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404356/4-A
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:55:42 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:53:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.96	99.63

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LLCS 280-404517/4-A
Matrix: Water
Lab File ID: hfpo718B12040.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/09/2018 20:33
Sample wt/vol: 250(mL)
Date Analyzed: 02/12/2018 12:24
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404640
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0228		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	63		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12040.d
Lims ID: LLCS 280-404517/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 12:24:09 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404517/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	469242	6.29	995	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		469242	10.0	995	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	58696	1.14	13.1	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 12-Feb-2018 14:30:59 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12040.d

Injection Date: 12-Feb-2018 12:24:09 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404517/4-A

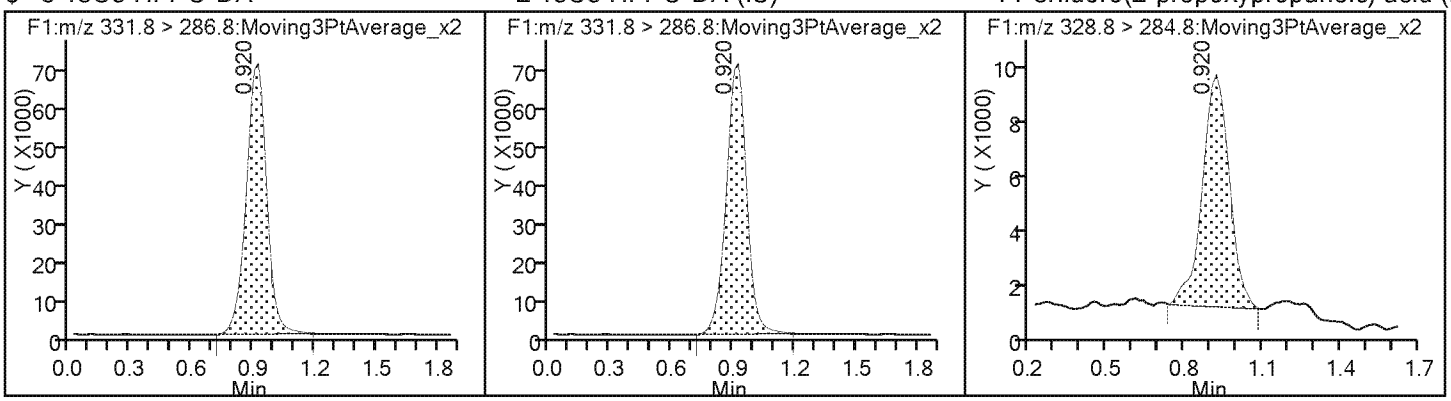
Client ID:

Operator ID: JBH ALS Bottle#: 15 Worklist Smp#: 7

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12040.d
Lims ID: LLCS 280-404517/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 12:24:09 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404517/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:30:55 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:27:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	6.29	62.85

Manual Integration/User Assign Peak Report

TestAmerica Denver

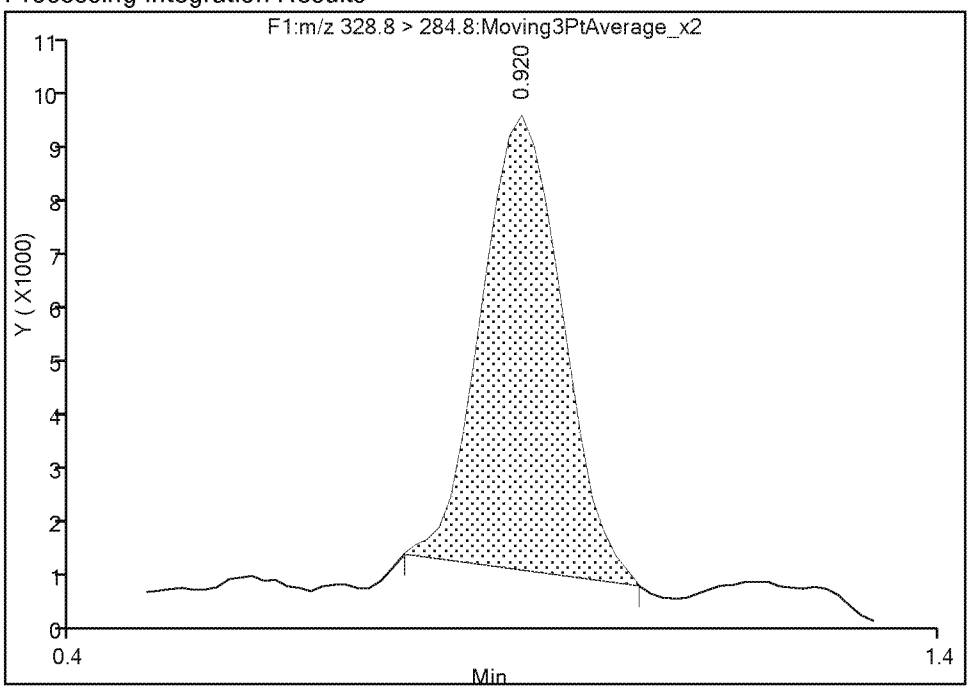
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12040.d				
Injection Date:	12-Feb-2018 12:24:09	Instrument ID:	LC_LCMS7		
Lims ID:	LLCS 280-404517/4-A				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	15	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

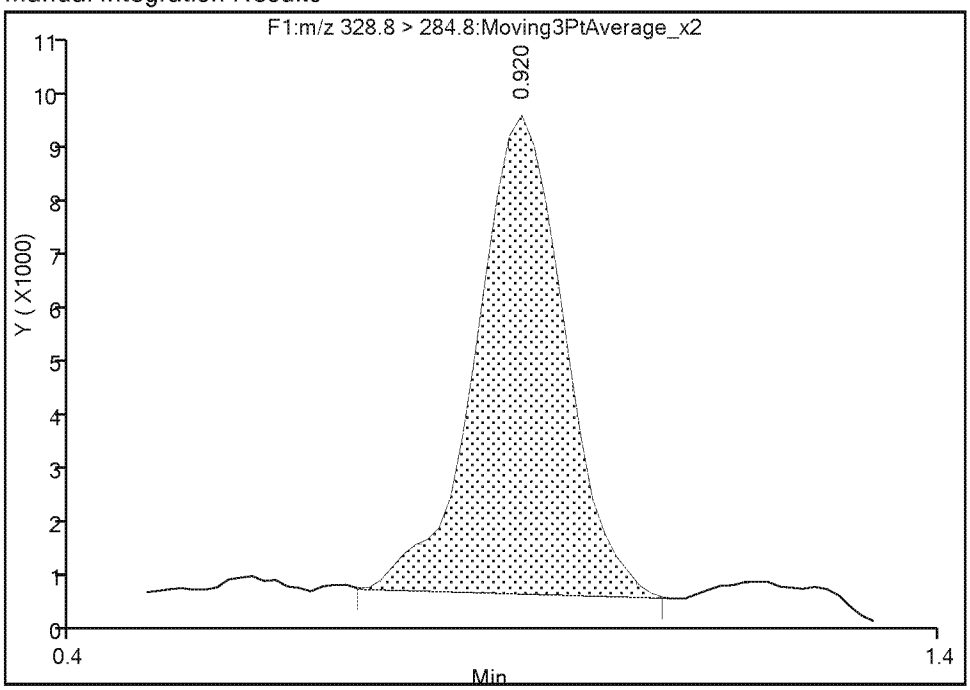
Processing Integration Results

RT: 0.92
Area: 51063
Amount: 0.988976
Amount Units: ug/l



Manual Integration Results

RT: 0.92
Area: 58696
Amount: 1.141887
Amount Units: ug/l



Reviewer: meyera, 12-Feb-2018 14:27:38

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: LLCS 280-404518/4-A
Matrix: Water
Lab File ID: hfpo718B12067.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/09/2018 20:54
Sample wt/vol: 250(mL)
Date Analyzed: 02/12/2018 13:52
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404641
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0223		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	73		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12067.d
Lims ID: LLCS 280-404518/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 13:52:01 ALS Bottle#: 39 Worklist Smp#: 34
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404518/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:00

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	544786	7.30	1476	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		544786	10.0	1476	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	66484	1.11	19.6	

Report Date: 12-Feb-2018 14:31:25 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12067.d

Injection Date: 12-Feb-2018 13:52:01 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-404518/4-A

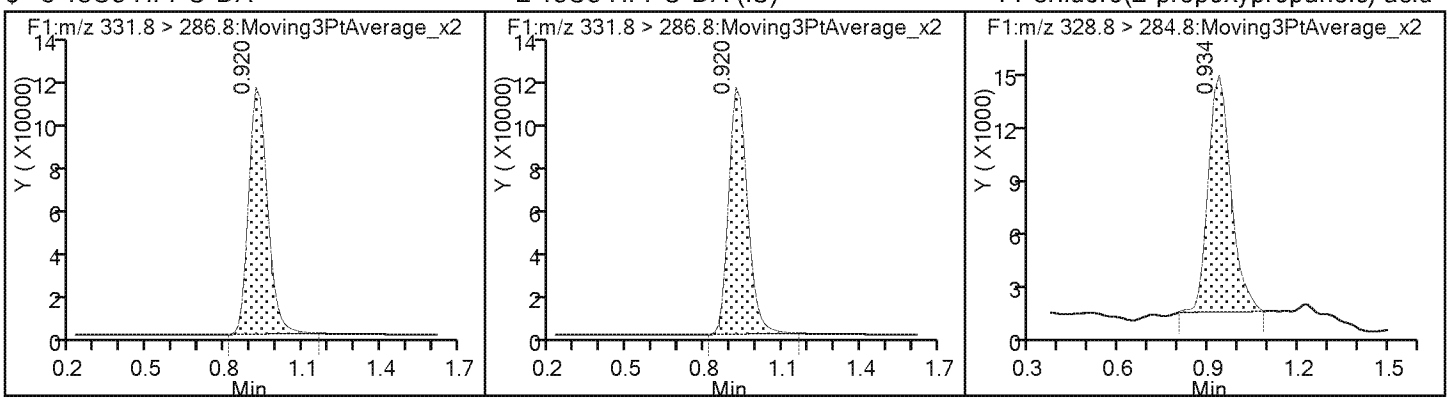
Client ID:

Operator ID: JBH ALS Bottle#: 39 Worklist Smp#: 34

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\hfpo718B12067.d
Lims ID: LLCS 280-404518/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 12-Feb-2018 13:52:01 ALS Bottle#: 39 Worklist Smp#: 34
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-404518/4-A
Misc. Info.: HFPO18B12
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180212-67162.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 12-Feb-2018 14:31:21 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK021

First Level Reviewer: meyera Date: 12-Feb-2018 14:30:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.30	72.97

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID:
Lab Sample ID: DLCK 280-404345/13
Matrix: Water
Lab File ID: hfpo718B08044.d
Analysis Method: 8321A
Date Collected:
Extraction Method:
Date Extracted:
Sample wt/vol: 1(mL)
Date Analyzed: 02/08/2018 13:38
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404345
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	<0.50		0.50	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	104		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d
Lims ID: DLCK
Client ID:
Sample Type: DLCK
Inject. Date: 08-Feb-2018 13:38:01 ALS Bottle#: 2 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: DLCK
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:32

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	1.056	1.045	0.011	1.000	776147	10.4	1241	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	1.056	1.045	0.011		776147	10.0	1241	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	1.056	1.056	0.0	1.000	21424	0.2255	2.8	M

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

HFPO_CAL-1_00032 Amount Added: 1.00 Units: mL

Report Date: 08-Feb-2018 15:24:19 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d

Injection Date: 08-Feb-2018 13:38:01 Instrument ID: LC_LCMS7

Lims ID: DLCK

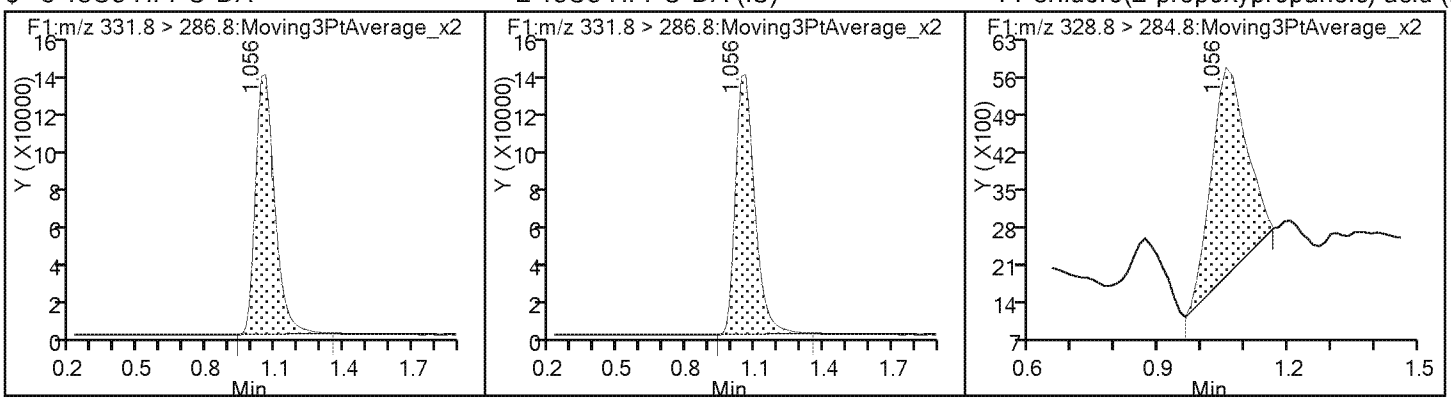
Client ID:

Operator ID: JBH ALS Bottle#: 2 Worklist Smp#: 13

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d
Lims ID: DLCK
Client ID:
Sample Type: DLCK
Inject. Date: 08-Feb-2018 13:38:01 ALS Bottle#: 2 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: DLCK
Misc. Info.: HFPO18B08
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 08-Feb-2018 15:24:17 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 08-Feb-2018 15:20:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.4	103.96

Manual Integration/User Assign Peak Report

TestAmerica Denver

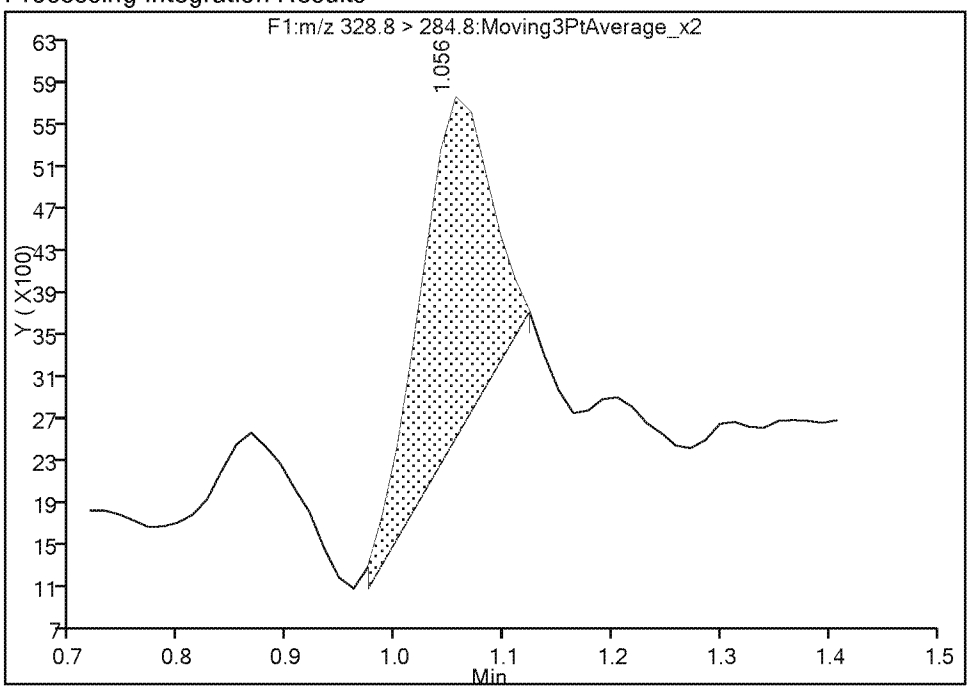
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d				
Injection Date:	08-Feb-2018 13:38:01	Instrument ID:	LC_LCMS7		
Lims ID:	DLCK				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

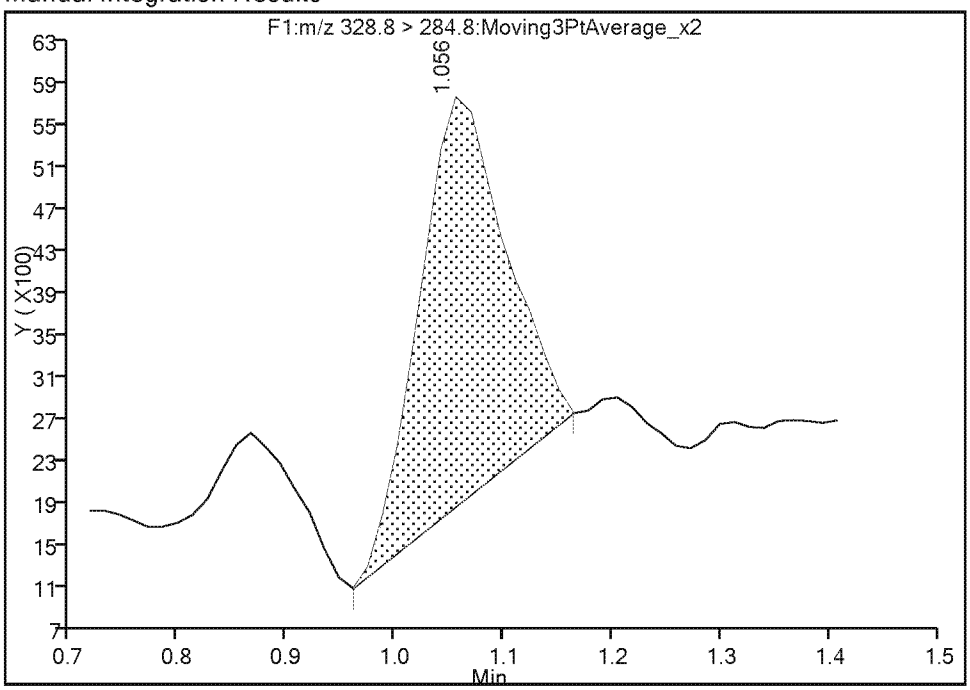
Processing Integration Results

RT: 1.06
Area: 14614
Amount: 0.143034
Amount Units: ug/l



Manual Integration Results

RT: 1.06
Area: 21424
Amount: 0.225513
Amount Units: ug/l



Reviewer: meyera, 08-Feb-2018 15:20:27

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5515MATTH-W1-1-013018 MS
Lab Sample ID: 280-105999-21 MS
Matrix: Water
Lab File ID: hfpo718B09061.d
Analysis Method: 8321A
Date Collected: 01/30/2018 15:16
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 275.8(mL)
Date Analyzed: 02/09/2018 11:54
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.244		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	93		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09061.d
Lims ID: 280-105999-C-21-A MS
Client ID: FAY-D-5515MATTH-W1-1-013018
Sample Type: MS
Inject. Date: 09-Feb-2018 11:54:39 ALS Bottle#: 7 Worklist Smp#: 51
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-21-AMS
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:12

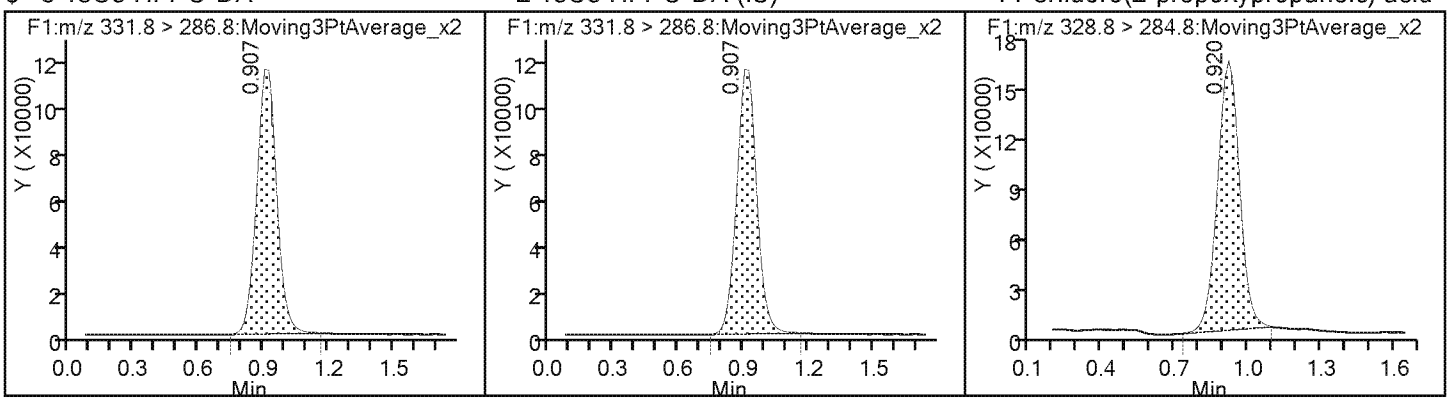
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	694445	9.30	1073	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		694445	10.0	1073	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	995329	13.4	84.3	

Report Date: 09-Feb-2018 12:56:07 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09061.d				
Injection Date:	09-Feb-2018 11:54:39	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-C-21-A MS				
Client ID:	FAY-D-5515MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	7	Worklist Smp#:	51
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09061.d
Lims ID: 280-105999-C-21-A MS
Client ID: FAY-D-5515MATTH-W1-1-013018
Sample Type: MS
Inject. Date: 09-Feb-2018 11:54:39 ALS Bottle#: 7 Worklist Smp#: 51
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-C-21-AMS
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.30	93.01

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-105999-1
SDG No.:
Client Sample ID: FAY-D-5515MATTH-W1-1-013018 DU
Lab Sample ID: 280-105999-21 DU
Matrix: Water
Lab File ID: hfpo718B09060.d
Analysis Method: 8321A
Date Collected: 01/30/2018 15:16
Extraction Method: 3535
Date Extracted: 02/08/2018 18:22
Sample wt/vol: 281.5(mL)
Date Analyzed: 02/09/2018 11:51
Con. Extract Vol.: 5(mL)
Dilution Factor: 1
Injection Volume: 20(uL)
GC Column: Synergi Hydro ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 404458
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0221		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	94		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09060.d
Lims ID: 280-105999-D-21-A DU
Client ID: FAY-D-5515MATTH-W1-1-013018
Sample Type: DU
Inject. Date: 09-Feb-2018 11:51:25 ALS Bottle#: 6 Worklist Smp#: 50
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-21-ADU
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:09

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	700610	9.38	879	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		700610	10.0	879	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.920	1.056	-0.136	1.000	95290	1.24	6.9	M

QC Flag Legend

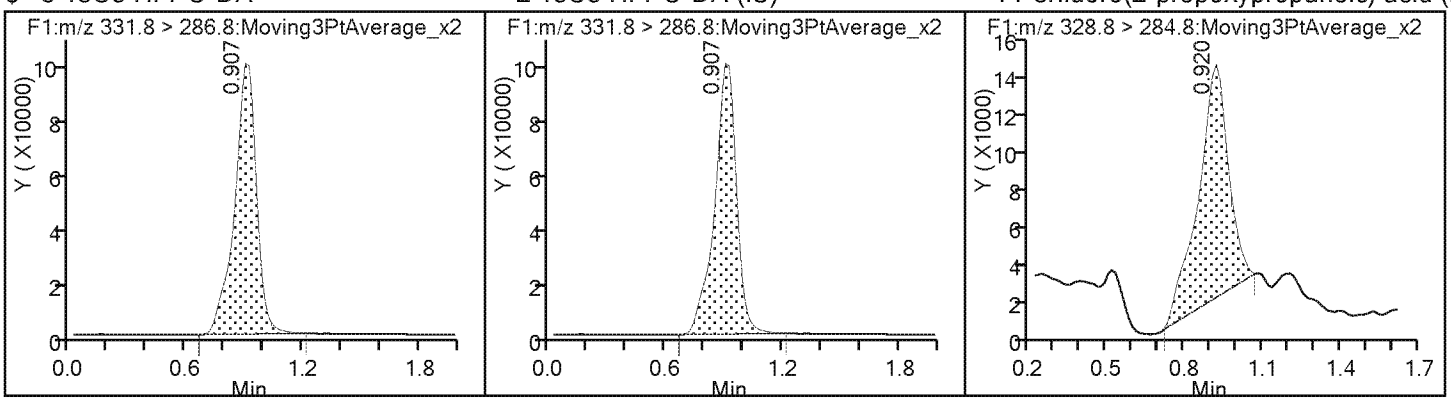
Review Flags
M - Manually Integrated

Report Date: 09-Feb-2018 12:56:06 Chrom Revision: 2.2 24-Jan-2018 15:37:30

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09060.d				
Injection Date:	09-Feb-2018 11:51:25	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-21-A DU				
Client ID:	FAY-D-5515MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	6	Worklist Smp#:	50
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		

$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09060.d
Lims ID: 280-105999-D-21-A DU
Client ID: FAY-D-5515MATTH-W1-1-013018
Sample Type: DU
Inject. Date: 09-Feb-2018 11:51:25 ALS Bottle#: 6 Worklist Smp#: 50
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-105999-D-21-ADU
Misc. Info.: HFPO18B09
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 09-Feb-2018 12:56:02 Calib Date: 08-Feb-2018 13:31:32
Integrator: Picker
Quant Method: Internal/External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08042.d

Column 1 : Det: F1:MRM
Process Host: XAWRK015

First Level Reviewer: meyera Date: 09-Feb-2018 12:54:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.38	93.84

Manual Integration/User Assign Peak Report

TestAmerica Denver

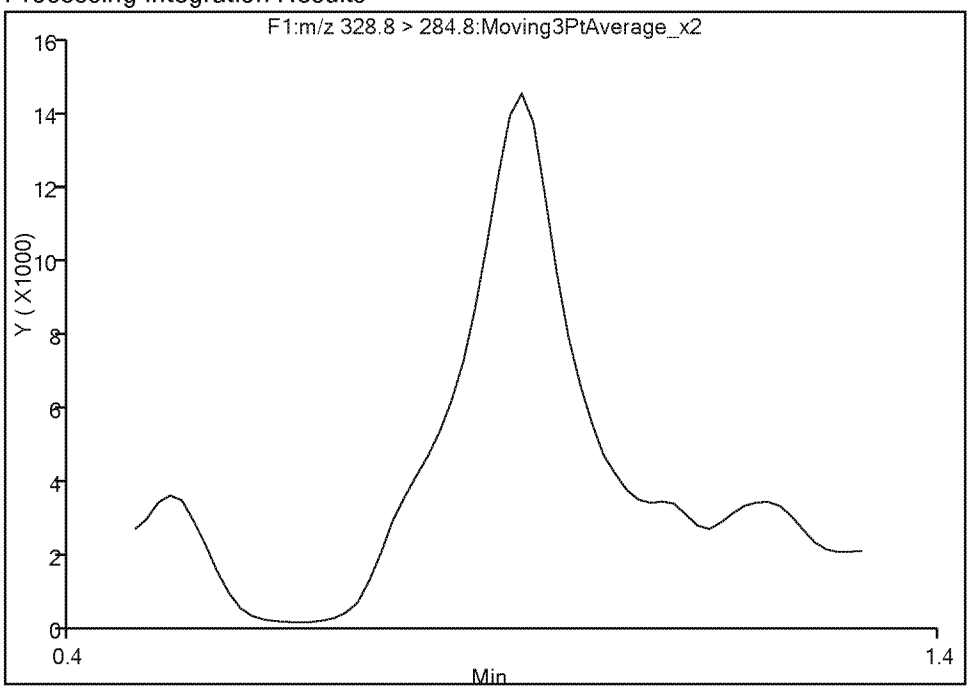
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180209-67108.b\hfpo718B09060.d				
Injection Date:	09-Feb-2018 11:51:25	Instrument ID:	LC_LCMS7		
Lims ID:	280-105999-D-21-A DU				
Client ID:	FAY-D-5515MATTH-W1-1-013018				
Operator ID:	JBH	ALS Bottle#:	6	Worklist Smp#:	50
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

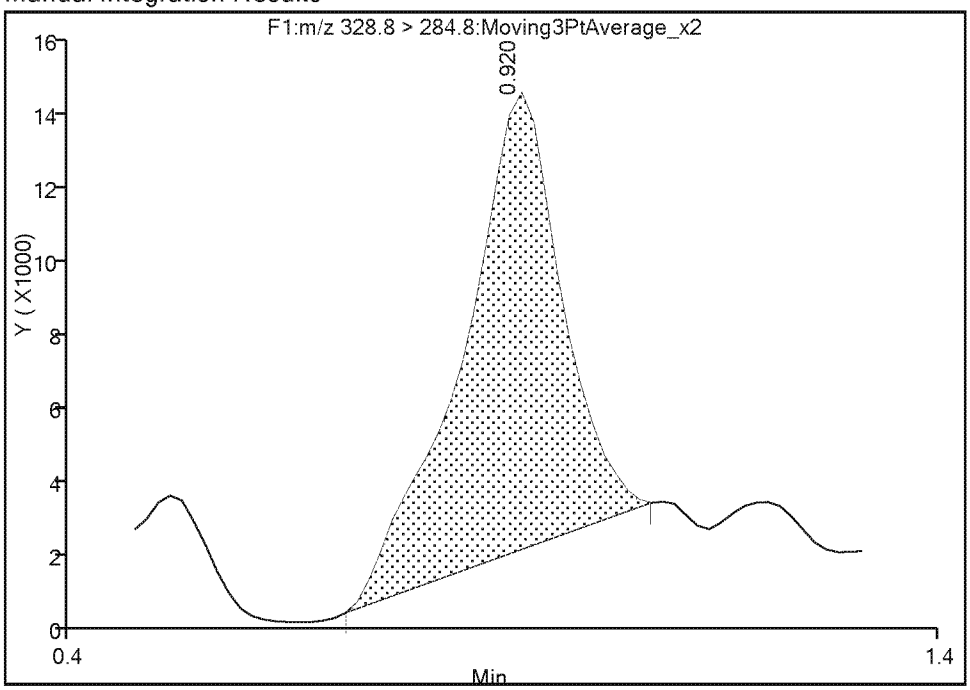
Processing Integration Results

Not Detected
Expected RT: 1.06



Manual Integration Results

RT: 0.92
Area: 95290
Amount: 1.244568
Amount Units: ug/l



Reviewer: meyera, 09-Feb-2018 12:54:06
Audit Action: Manually Integrated Audit Reason: Assign Peak

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/08/2018 13:05

Analysis Batch Number: 404345 End Date: 02/08/2018 13:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD001 280-404345/3 IC		02/08/2018 13:05	1	hfpo718B08034.d	Synergi Hydro
STD002 280-404345/4 IC		02/08/2018 13:08	1	hfpo718B08035.d	Synergi Hydro
STD003 280-404345/5 IC		02/08/2018 13:12	1	hfpo718B08036.d	Synergi Hydro
STD004 280-404345/6 IC		02/08/2018 13:15	1	hfpo718B08037.d	Synergi Hydro
STD005 280-404345/7 IC		02/08/2018 13:18	1	hfpo718B08038.d	Synergi Hydro
STD006 280-404345/8 IC		02/08/2018 13:21	1	hfpo718B08039.d	Synergi Hydro
STD007 280-404345/9 IC		02/08/2018 13:25	1	hfpo718B08040.d	Synergi Hydro
STD008 280-404345/10 IC		02/08/2018 13:28	1	hfpo718B08041.d	Synergi Hydro
STD009 280-404345/11 IC		02/08/2018 13:31	1	hfpo718B08042.d	Synergi Hydro
ICB 280-404345/12		02/08/2018 13:34	1	hfpo718B08043.d	Synergi Hydro
DLCK 280-404345/13		02/08/2018 13:38	1	hfpo718B08044.d	Synergi Hydro
ICV 280-404345/14		02/08/2018 13:41	1	hfpo718B08045.d	Synergi Hydro

8321A

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/08/2018 13:44

Analysis Batch Number: 404346 End Date: 02/08/2018 15:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
MB 280-404157/1-A		02/08/2018 13:44	1	hfpo718B08046.d	Synergi Hydro
LCS 280-404157/2-A		02/08/2018 13:47	1	hfpo718B08047.d	Synergi Hydro
LCSD 280-404157/3-A		02/08/2018 13:50	1	hfpo718B08048.d	Synergi Hydro
LLCS 280-404157/4-A		02/08/2018 13:54	1	hfpo718B08049.d	Synergi Hydro
280-105999-26		02/08/2018 13:57	1	hfpo718B08050.d	Synergi Hydro
280-105999-27		02/08/2018 14:00	1	hfpo718B08051.d	Synergi Hydro
ZZZZZ		02/08/2018 14:03	1		Synergi Hydro
ZZZZZ		02/08/2018 14:07	1		Synergi Hydro
ZZZZZ		02/08/2018 14:10	1		Synergi Hydro
ZZZZZ		02/08/2018 14:13	1		Synergi Hydro
CCV 280-404346/25		02/08/2018 14:16	1	hfpo718B08056.d	Synergi Hydro
ZZZZZ		02/08/2018 14:20	1		Synergi Hydro
ZZZZZ		02/08/2018 14:23	1		Synergi Hydro
ZZZZZ		02/08/2018 14:26	1		Synergi Hydro
ZZZZZ		02/08/2018 14:29	1		Synergi Hydro
ZZZZZ		02/08/2018 14:33	1		Synergi Hydro
ZZZZZ		02/08/2018 14:36	1		Synergi Hydro
ZZZZZ		02/08/2018 14:39	1		Synergi Hydro
ZZZZZ		02/08/2018 14:42	1		Synergi Hydro
ZZZZZ		02/08/2018 14:46	1		Synergi Hydro
ZZZZZ		02/08/2018 14:49	1		Synergi Hydro
CCV 280-404346/36		02/08/2018 14:52	1		Synergi Hydro
ZZZZZ		02/08/2018 14:56	1		Synergi Hydro
ZZZZZ		02/08/2018 14:59	1		Synergi Hydro
ZZZZZ		02/08/2018 15:02	1		Synergi Hydro
ZZZZZ		02/08/2018 15:05	1		Synergi Hydro
ZZZZZ		02/08/2018 15:09	1		Synergi Hydro
ZZZZZ		02/08/2018 15:12	1		Synergi Hydro
CCV 280-404346/43		02/08/2018 15:15	1		Synergi Hydro

8321A

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/09/2018 09:18

Analysis Batch Number: 404457 End Date: 02/09/2018 10:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404457/3		02/09/2018 09:18	1	hfpo718B09013.d	Synergi Hydro
MB 280-404355/1-A		02/09/2018 09:21	1	hfpo718B09014.d	Synergi Hydro
LCS 280-404355/2-A		02/09/2018 09:24	1	hfpo718B09015.d	Synergi Hydro
LCSD 280-404355/3-A		02/09/2018 09:28	1	hfpo718B09016.d	Synergi Hydro
LLCS 280-404355/4-A		02/09/2018 09:31	1	hfpo718B09017.d	Synergi Hydro
ZZZZZ		02/09/2018 09:34	1		Synergi Hydro
280-105999-1		02/09/2018 09:37	1	hfpo718B09019.d	Synergi Hydro
280-105999-2		02/09/2018 09:41	1	hfpo718B09020.d	Synergi Hydro
280-105999-3		02/09/2018 09:44	1	hfpo718B09021.d	Synergi Hydro
280-105999-4		02/09/2018 09:47	1	hfpo718B09022.d	Synergi Hydro
280-105999-5		02/09/2018 09:50	1	hfpo718B09023.d	Synergi Hydro
CCV 280-404457/14		02/09/2018 09:54	1	hfpo718B09024.d	Synergi Hydro
280-105999-6		02/09/2018 09:57	1	hfpo718B09025.d	Synergi Hydro
280-105999-7		02/09/2018 10:00	1	hfpo718B09026.d	Synergi Hydro
280-105999-8		02/09/2018 10:03	1	hfpo718B09027.d	Synergi Hydro
280-105999-9		02/09/2018 10:07	1	hfpo718B09028.d	Synergi Hydro
ZZZZZ		02/09/2018 10:10	1		Synergi Hydro
ZZZZZ		02/09/2018 10:13	1		Synergi Hydro
ZZZZZ		02/09/2018 10:16	1		Synergi Hydro
ZZZZZ		02/09/2018 10:20	1		Synergi Hydro
ZZZZZ		02/09/2018 10:23	1		Synergi Hydro
ZZZZZ		02/09/2018 10:26	1		Synergi Hydro
CCV 280-404457/25		02/09/2018 10:29	1	hfpo718B09035.d	Synergi Hydro
ZZZZZ		02/09/2018 10:33	1		Synergi Hydro
ZZZZZ		02/09/2018 10:36	1		Synergi Hydro
ZZZZZ		02/09/2018 10:39	1		Synergi Hydro
ZZZZZ		02/09/2018 10:42	1		Synergi Hydro
ZZZZZ		02/09/2018 10:46	1		Synergi Hydro
ZZZZZ		02/09/2018 10:49	1		Synergi Hydro
CCV 280-404457/32		02/09/2018 10:52	1	hfpo718B09042.d	Synergi Hydro

8321A

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/09/2018 10:52

Analysis Batch Number: 404458 End Date: 02/09/2018 12:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404458/32		02/09/2018 10:52	1	hfpo718B09042.d	Synergi Hydro
MB 280-404356/1-A		02/09/2018 10:55	1	hfpo718B09043.d	Synergi Hydro
LCS 280-404356/2-A		02/09/2018 10:59	1	hfpo718B09044.d	Synergi Hydro
LCSD 280-404356/3-A		02/09/2018 11:02	1	hfpo718B09045.d	Synergi Hydro
LLCS 280-404356/4-A		02/09/2018 11:05	1	hfpo718B09046.d	Synergi Hydro
280-105999-10		02/09/2018 11:09	1	hfpo718B09047.d	Synergi Hydro
280-105999-11		02/09/2018 11:12	1	hfpo718B09048.d	Synergi Hydro
280-105999-12		02/09/2018 11:15	1	hfpo718B09049.d	Synergi Hydro
280-105999-13		02/09/2018 11:18	1	hfpo718B09050.d	Synergi Hydro
280-105999-14		02/09/2018 11:22	1	hfpo718B09051.d	Synergi Hydro
280-105999-15		02/09/2018 11:25	1	hfpo718B09052.d	Synergi Hydro
CCV 280-404458/43		02/09/2018 11:28	1	hfpo718B09053.d	Synergi Hydro
280-105999-16		02/09/2018 11:31	1	hfpo718B09054.d	Synergi Hydro
280-105999-17		02/09/2018 11:35	1	hfpo718B09055.d	Synergi Hydro
280-105999-18		02/09/2018 11:38	1	hfpo718B09056.d	Synergi Hydro
280-105999-19		02/09/2018 11:41	1	hfpo718B09057.d	Synergi Hydro
280-105999-20		02/09/2018 11:44	1	hfpo718B09058.d	Synergi Hydro
280-105999-21		02/09/2018 11:48	1	hfpo718B09059.d	Synergi Hydro
280-105999-21 DU		02/09/2018 11:51	1	hfpo718B09060.d	Synergi Hydro
280-105999-21 MS		02/09/2018 11:54	1	hfpo718B09061.d	Synergi Hydro
280-105999-22		02/09/2018 11:57	1	hfpo718B09062.d	Synergi Hydro
280-105999-23		02/09/2018 12:01	1	hfpo718B09063.d	Synergi Hydro
CCV 280-404458/54		02/09/2018 12:04	1	hfpo718B09064.d	Synergi Hydro
ZZZZZ		02/09/2018 12:07	1		Synergi Hydro
280-105999-28		02/09/2018 12:10	1	hfpo718B09066.d	Synergi Hydro
280-105999-29		02/09/2018 12:14	1	hfpo718B09067.d	Synergi Hydro
280-105999-30		02/09/2018 12:17	1	hfpo718B09068.d	Synergi Hydro
280-105999-31		02/09/2018 12:20	1	hfpo718B09069.d	Synergi Hydro
280-105999-34		02/09/2018 12:23	1	hfpo718B09070.d	Synergi Hydro
CCV 280-404458/61		02/09/2018 12:27	1	hfpo718B09071.d	Synergi Hydro

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LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/12/2018 12:11

Analysis Batch Number: 404640 End Date: 02/12/2018 13:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404640/3		02/12/2018 12:11	1	hfpo718B12036.d	Synergi Hydro
MB 280-404517/1-A		02/12/2018 12:14	1	hfpo718B12037.d	Synergi Hydro
LCS 280-404517/2-A		02/12/2018 12:17	1	hfpo718B12038.d	Synergi Hydro
LCSD 280-404517/3-A		02/12/2018 12:20	1	hfpo718B12039.d	Synergi Hydro
LLCS 280-404517/4-A		02/12/2018 12:24	1	hfpo718B12040.d	Synergi Hydro
280-105999-24		02/12/2018 12:27	1	hfpo718B12041.d	Synergi Hydro
280-105999-25		02/12/2018 12:30	1	hfpo718B12042.d	Synergi Hydro
280-105999-32		02/12/2018 12:33	1	hfpo718B12043.d	Synergi Hydro
280-105999-33		02/12/2018 12:37	1	hfpo718B12044.d	Synergi Hydro
280-105999-35		02/12/2018 12:40	1	hfpo718B12045.d	Synergi Hydro
280-105999-36		02/12/2018 12:43	1	hfpo718B12046.d	Synergi Hydro
CCV 280-404640/14		02/12/2018 12:46	1	hfpo718B12047.d	Synergi Hydro
280-105999-37		02/12/2018 12:50	1	hfpo718B12048.d	Synergi Hydro
280-105999-38		02/12/2018 12:53	1	hfpo718B12049.d	Synergi Hydro
280-105999-39		02/12/2018 12:56	1	hfpo718B12050.d	Synergi Hydro
280-105999-40		02/12/2018 12:59	1	hfpo718B12051.d	Synergi Hydro
280-105999-41		02/12/2018 13:03	1	hfpo718B12052.d	Synergi Hydro
280-105999-42		02/12/2018 13:06	1	hfpo718B12053.d	Synergi Hydro
280-105999-43		02/12/2018 13:09	1	hfpo718B12054.d	Synergi Hydro
280-105999-44		02/12/2018 13:12	1	hfpo718B12055.d	Synergi Hydro
280-105999-45		02/12/2018 13:16	1	hfpo718B12056.d	Synergi Hydro
280-105999-46		02/12/2018 13:19	1	hfpo718B12057.d	Synergi Hydro
CCV 280-404640/25		02/12/2018 13:22	1	hfpo718B12058.d	Synergi Hydro
280-105999-47		02/12/2018 13:25	1	hfpo718B12059.d	Synergi Hydro
280-105999-48		02/12/2018 13:29	1	hfpo718B12060.d	Synergi Hydro
280-105999-49		02/12/2018 13:32	1	hfpo718B12061.d	Synergi Hydro
280-105999-50		02/12/2018 13:35	1	hfpo718B12062.d	Synergi Hydro
CCV 280-404640/30		02/12/2018 13:38	1	hfpo718B12063.d	Synergi Hydro

8321A

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/12/2018 13:38

Analysis Batch Number: 404641 End Date: 02/12/2018 14:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-404641/30		02/12/2018 13:38	1	hfpo718B12063.d	Synergi Hydro
MB 280-404518/1-A		02/12/2018 13:42	1	hfpo718B12064.d	Synergi Hydro
LCS 280-404518/2-A		02/12/2018 13:45	1	hfpo718B12065.d	Synergi Hydro
LCSD 280-404518/3-A		02/12/2018 13:48	1	hfpo718B12066.d	Synergi Hydro
LLCS 280-404518/4-A		02/12/2018 13:52	1	hfpo718B12067.d	Synergi Hydro
ZZZZZ		02/12/2018 13:55	1		Synergi Hydro
ZZZZZ		02/12/2018 13:58	1		Synergi Hydro
ZZZZZ		02/12/2018 14:01	1		Synergi Hydro
ZZZZZ		02/12/2018 14:05	1		Synergi Hydro
280-105999-51		02/12/2018 14:08	1	hfpo718B12072.d	Synergi Hydro
280-105999-52		02/12/2018 14:11	1	hfpo718B12073.d	Synergi Hydro
CCV 280-404641/41		02/12/2018 14:14	1	hfpo718B12074.d	Synergi Hydro
280-105999-53		02/12/2018 14:18	1	hfpo718B12075.d	Synergi Hydro
280-105999-54		02/12/2018 14:21	1	hfpo718B12076.d	Synergi Hydro
280-105999-55		02/12/2018 14:24	1	hfpo718B12077.d	Synergi Hydro
280-105999-56		02/12/2018 14:28	1	hfpo718B12078.d	Synergi Hydro
280-105999-57		02/12/2018 14:31	1	hfpo718B12079.d	Synergi Hydro
280-105999-58		02/12/2018 14:34	1	hfpo718B12080.d	Synergi Hydro
CCV 280-404641/48		02/12/2018 14:37	1	hfpo718B12081.d	Synergi Hydro

8321A

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404157 Batch Start Date: 02/07/18 10:33 Batch Analyst: Atkinson, Hannah M

Batch Method: 3535 Batch End Date: 02/07/18 14:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00007	HFPO Spike 00004
MB 280-404157/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404157/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404157/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404157/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-105999-B-26	FAY-D-2808CHIMB-W1-1-012918	3535, 8321A	T	278.9 g	28.2 g	250.7 mL	5 mL	0.1 mL	
280-105999-A-27	FAY-D-FB-012918	3535, 8321A	T	272.1 g	27.4 g	244.7 mL	5 mL	0.1 mL	

Batch Notes	
Acid ID	2% Formic Aci_00141
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:KI
First End time	1200
H2O ID	HPLC_Water_00850
Pipette ID	m2, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00117
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	1055

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404355 Batch Start Date: 02/08/18 17:57 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/08/18 20:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404355/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404355/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404355/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404355/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-105999-A-1	FAY-D-5140MATTH-W1-1-013018	3535, 8321A	T	290.1 g	27.7 g	262.4 mL	5 mL	0.1 mL	
280-105999-C-2	FAY-D-5240MATTH-W1-1-013018	3535, 8321A	T	306.9 g	27.1 g	279.8 mL	5 mL	0.1 mL	
280-105999-D-3	FAY-D-5226MATTH-W1-1-013018	3535, 8321A	T	298.6 g	27.1 g	271.5 mL	5 mL	0.1 mL	
280-105999-B-4	FAY-D-4992HERSY-W1-1-013018	3535, 8321A	T	293.4 g	29.2 g	264.2 mL	5 mL	0.1 mL	
280-105999-D-5	FAY-D-4976HERSY-W1-1-013018	3535, 8321A	T	315.7 g	28.2 g	287.5 mL	5 mL	0.1 mL	
280-105999-A-6	FAY-D-4850OLDSV-W1-1-013118	3535, 8321A	T	316.6 g	28.7 g	287.9 mL	5 mL	0.1 mL	
280-105999-A-7	FAY-D-4781OLDSV-W1-1-013118	3535, 8321A	T	319.3 g	28.4 g	290.9 mL	5 mL	0.1 mL	
280-105999-C-8	FAY-D-7560TABOR-W1-1-013118	3535, 8321A	T	324.2 g	27.7 g	296.5 mL	5 mL	0.1 mL	
280-105999-A-9	FAY-D-7560TABOR-W1-2-013118	3535, 8321A	T	314.0 g	28.5 g	285.5 mL	5 mL	0.1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404355 Batch Start Date: 02/08/18 17:57 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/08/18 20:23

Batch Notes	
Acid ID	2% Formic Aci_00141
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:CDC
First End time	2.8.18@1901
H2O ID	HPLC_Water_00850
Pipette ID	P, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	2.8.18@1810

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404356 Batch Start Date: 02/08/18 18:22 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/08/18 22:21

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404356/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404356/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404356/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404356/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-105999-A-10	FAY-D-5140SNWBR-W1-1-013118	3535, 8321A	T	303.5 g	28.5 g	275 mL	5 mL	0.1 mL	
280-105999-C-11	FAY-D-5010SNWBR-W1-1-013118	3535, 8321A	T	284.7 g	28.5 g	256.2 mL	5 mL	0.1 mL	
280-105999-A-12	FAY-D-4900SNWBR-W1-1-013118	3535, 8321A	T	311.1 g	28.1 g	283 mL	5 mL	0.1 mL	
280-105999-A-13	FAY-D-4863SNWBR-W1-1-013118	3535, 8321A	T	317.7 g	27.9 g	289.8 mL	5 mL	0.1 mL	
280-105999-A-14	FAY-D-4839SNWBR-W1-1-013118	3535, 8321A	T	307.6 g	28.9 g	278.7 mL	5 mL	0.1 mL	
280-105999-B-15	FAY-D-4809SNWBR-W1-1-013118	3535, 8321A	T	309.6 g	28.9 g	280.7 mL	5 mL	0.1 mL	
280-105999-B-16	FAY-D-4830SNWBR-W1-1-013118	3535, 8321A	T	307.1 g	27.9 g	279.2 mL	5 mL	0.1 mL	
280-105999-B-17	FAY-D-3612PNEBR-W1-1-013118	3535, 8321A	T	309.9 g	28.3 g	281.6 mL	5 mL	0.1 mL	
280-105999-C-18	FAY-D-3612PNEBR-W1-2-013118	3535, 8321A	T	306.8 g	28.2 g	278.6 mL	5 mL	0.1 mL	
280-105999-B-19	FAY-D-6883BUTLE-W1-1-013118	3535, 8321A	T	309.6 g	29.1 g	280.5 mL	5 mL	0.1 mL	
280-105999-D-20	FAY-D-6900TABOR-W1-1-013018	3535, 8321A	T	311.4 g	28.3 g	283.1 mL	5 mL	0.1 mL	
280-105999-A-21	FAY-D-5515MATTH-W1-1-013018	3535, 8321A	T	318.5 g	26.8 g	291.7 mL	5 mL	0.1 mL	
280-105999-D-21 DU	FAY-D-5515MATTH-W1-1-013018	3535, 8321A	T	308.8 g	27.3 g	281.5 mL	5 mL	0.1 mL	
280-105999-C-21 MS	FAY-D-5515MATTH-W1-1-013018	3535, 8321A	T	302.8 g	27.0 g	275.8 mL	5 mL	0.1 mL	0.1 mL
280-105999-A-22	FAY-D-5455MATTH-W1-1-013018	3535, 8321A	T	304.8 g	26.8 g	278 mL	5 mL	0.1 mL	
280-105999-B-23	FAY-D-5459MATTH-W1-1-013018	3535, 8321A	T	309.9 g	27.4 g	282.5 mL	5 mL	0.1 mL	
280-105999-C-28	FAY-D-3067NC20H-W1-1-013118	3535, 8321A	T	313.2 g	28.3 g	284.9 mL	5 mL	0.1 mL	
280-105999-B-29	FAY-D-FB-013118	3535, 8321A	T	317.1 g	28.9 g	288.2 mL	5 mL	0.1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404356 Batch Start Date: 02/08/18 18:22 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/08/18 22:21

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
280-105999-D-30	FAY-D-2713NC20H-W1-1-013118	3535, 8321A	T	324.5 g	28.4 g	296.1 mL	5 mL	0.1 mL	
280-105999-C-31	FAY-D-3065NC20H-W1-1-013118	3535, 8321A	T	298.8 g	28.0 g	270.8 mL	5 mL	0.1 mL	
280-105999-A-34	FAY-D-3417DANDE-W1-1-013118	3535, 8321A	T	327.2 g	28.2 g	299 mL	5 mL	0.1 mL	

Batch Notes	
Acid ID	2% Formic Aci_00141
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:CDC
First End time	2.8.18@1912 Lines 15-26@2115
H2O ID	HPLC_Water_00850
Pipette ID	P, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	2.8.18@1831 lines 15-26@2041

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404517 Batch Start Date: 02/09/18 20:33 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/09/18 23:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404517/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404517/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404517/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404517/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-105999-A-24	FAY-D-5505MATTH-W1-1-013018	3535, 8321A	T	300.8 g	27.2 g	273.6 mL	5 mL	0.1 mL	
280-105999-D-25	FAY-D-5515MATTH-W1-1-013018D	3535, 8321A	T	294.8 g	27.6 g	267.2 mL	5 mL	0.1 mL	
280-105999-D-32	FAY-D-2713NC20H-W1-2-013118	3535, 8321A	T	316.0 g	28.2 g	287.8 mL	5 mL	0.1 mL	
280-105999-A-33	FAY-D-3431DANDE-W1-1-013118	3535, 8321A	T	305.1 g	28.4 g	276.7 mL	5 mL	0.1 mL	
280-105999-C-35	FAY-D-3203LUGSL-W1-1-013118	3535, 8321A	T	308.3 g	27.0 g	281.3 mL	5 mL	0.1 mL	
280-105999-C-36	FAY-D-6859BUTLE-W1-1-013118	3535, 8321A	T	312.1 g	29.1 g	283 mL	5 mL	0.1 mL	
280-105999-C-37	FAY-D-3834HEART-W1-1-013118	3535, 8321A	T	312.7 g	28.6 g	284.1 mL	5 mL	0.1 mL	
280-105999-A-38	FAY-D-3834HEART-W1-2-013118	3535, 8321A	T	322.6 g	28.3 g	294.3 mL	5 mL	0.1 mL	
280-105999-A-39	FAY-D-3845HEART-W1-1-013118	3535, 8321A	T	306.8 g	27.8 g	279 mL	5 mL	0.1 mL	
280-105999-D-40	FAY-D-3845HEART-W1-2-013118	3535, 8321A	T	300.0 g	28.8 g	271.2 mL	5 mL	0.1 mL	
280-105999-C-41	FAY-D-3909HEART-W1-1-013118	3535, 8321A	T	307.2 g	28.5 g	278.7 mL	5 mL	0.1 mL	
280-105999-C-42	FAY-D-3909HEART-W1-2-013118	3535, 8321A	T	301.1 g	28.7 g	272.4 mL	5 mL	0.1 mL	
280-105999-D-43	FAY-D-3911HEART-W1-1-013118	3535, 8321A	T	297.3 g	28.0 g	269.3 mL	5 mL	0.1 mL	
280-105999-A-44	FAY-D-3930HEART-W1-1-013118	3535, 8321A	T	303.9 g	28.2 g	275.7 mL	5 mL	0.1 mL	
280-105999-C-45	FAY-D-3930HEART-W1-2-013118	3535, 8321A	T	301.5 g	27.6 g	273.9 mL	5 mL	0.1 mL	
280-105999-A-46	FAY-D-3933HEART-W1-1-013118	3535, 8321A	T	297.7 g	28.3 g	269.4 mL	5 mL	0.1 mL	
280-105999-B-47	FAY-D-3933HEART-W1-2-013118	3535, 8321A	T	304.9 g	29.0 g	275.9 mL	5 mL	0.1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404517 Batch Start Date: 02/09/18 20:33 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/09/18 23:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
280-105999-A-48	FAY-D-3754HEART-W1-1-013018	3535, 8321A	T	288.9 g	28.5 g	260.4 mL	5 mL	0.1 mL	
280-105999-A-49	FAY-D-3808HEART-W1-1-013018	3535, 8321A	T	305.8 g	26.7 g	279.1 mL	5 mL	0.1 mL	
280-105999-A-50	FAY-D-3808HEART-W1-2-013018	3535, 8321A	T	307.2 g	28.3 g	278.9 mL	5 mL	0.1 mL	

Batch Notes	
Acid ID	2% Formic Aci_00141
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:CDC
First End time	2.9.18@2126
H2O ID	HPLC_Water_00851
Pipette ID	P, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	2.9.18@2044

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404518 Batch Start Date: 02/09/18 20:54 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/09/18 23:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-404518/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-404518/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-404518/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-404518/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-105999-A-51	FAY-D-3775HEART-W1-1-013018	3535, 8321A	T	303.3 g	27.4 g	275.9 mL	5 mL	0.1 mL	
280-105999-D-52	FAY-D-3825HEART-W1-1-013118	3535, 8321A	T	298.1 g	28.1 g	270 mL	5 mL	0.1 mL	
280-105999-A-53	FAY-D-3825HEART-W1-2-013018	3535, 8321A	T	298.4 g	27.1 g	271.3 mL	5 mL	0.1 mL	
280-105999-D-54	FAY-D-3934HEART-W1-1-013118	3535, 8321A	T	312.9 g	29.2 g	283.7 mL	5 mL	0.1 mL	
280-105999-A-55	FAY-D-3926HEART-W1-1-013118	3535, 8321A	T	304.4 g	28.8 g	275.6 mL	5 mL	0.1 mL	
280-105999-C-56	FAY-D-3926HEART-W1-2-013118	3535, 8321A	T	313.8 g	27.8 g	286 mL	5 mL	0.1 mL	
280-105999-A-57	FAY-D-3513TRERG-W1-1-013118	3535, 8321A	T	316.7 g	28.0 g	288.7 mL	5 mL	0.1 mL	
280-105999-A-58	FAY-D-3513TRERG-W1-2-013118	3535, 8321A	T	305.5 g	28.1 g	277.4 mL	5 mL	0.1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-105999-1

SDG No.:

Batch Number: 404518 Batch Start Date: 02/09/18 20:54 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/09/18 23:23

Batch Notes	
Acid ID	2% Formic Aci_00141
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:CDC
First End time	2.9.18@2139
H2O ID	HPLC_Water_00851
Pipette ID	P, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00118
Solvent Lot #	Methanol_00190
Solvent Name	Methanol
SOP Number	DV-OP-0019
SPE Cartridge Type	STRATA-X-AW (8B S038 FCH)
Solid Phase Extraction Disk ID	S308-0079
First Start time	2.9.18@2059

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO-CAL-0-00032

Reagent ID: HFPO_CAL-0_00032

Description:	Blank	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	PFC_Dill_Solvent
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956304		
Comment:	ICB		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-1_00032

Reagent ID: HFPO_CAL-1_00032

Description:	level1	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956305		
Comment:	level-1		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.25000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				0.50000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-2_00033

Reagent ID: HFPO_CAL-2_00033

Description:	level2	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956307		
Comment:	level-2		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00006	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00006	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.50000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00006	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				1.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-3_00032

Reagent ID: HFPO_CAL-3_00032

Description:	level3	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958309		
Comment:	level-3		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2016	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2016	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2016	0.50000	ug/mL	1.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/16				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/16				2.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-4_00032

Reagent ID: HFPO_CAL-4_00032

Description:	level4	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956319		
Comment:	level-4		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	2.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				4.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-5_00080

Reagent ID: HFPO_CAL-5_00080

Description:	level5	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956337		
Comment:	level-5		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	5.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-6_00080

Reagent ID: HFPO_CAL-6_00080

Description:	level6	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018 -	Solvent Lot:	00016
Open Date:			
Container(s):	4956338		
Comment:	level-6		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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HFPO_CAL-7_00032

Reagent ID: HFPO_CAL-7_00032

Description:	level7	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956339		
Comment:	level-7		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	25.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				50.00000	uL

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HFPO_CAL-8_00032

Reagent ID: HFPO_CAL-8_00032

Description:	level8	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4958340		
Comment:	level-8		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	50.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				100.00000	uL

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HFPO_CAL-9_00001

Reagent ID: HFPO_CAL-9_00001

Description:	level9	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956342		
Comment:	level-9		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	100.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				200.00000	uL

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HFPO_ICV_00034

Reagent ID: HFPO_ICV_00034

Description:	ICV	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958341		
Comment:	ICV		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO ICV_00001	11/03/2018	0.19800	ug/mL	1.98000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO ICV_00001	ICV HFPO perary		11/03/18				10.00000	uL

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HFPO-CAL-0-00032

Reagent ID: HFPO_CAL-0_00032

Description:	Blank	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	PFC_Dill_Solvent
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956304		
Comment:	ICB		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL

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HFPO_CAL-1_00032

Reagent ID: HFPO_CAL-1_00032

Description:	level1	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956305		
Comment:	level-1		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.25000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				0.50000	uL

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HFPO_CAL-2_00033

Reagent ID: HFPO_CAL-2_00033

Description:	level2	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956307		
Comment:	level-2		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.60000	ug/mL	0.60000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				1.00000	uL

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HFPO_CAL-3_00032

Reagent ID: HFPO_CAL-3_00032

Description:	level3	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958309		
Comment:	level-3		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	1.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				2.00000	uL

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HFPO_CAL-4_00032

Reagent ID: HFPO_CAL-4_00032

Description:	level4	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956319		
Comment:	level-4		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	2.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				4.00000	uL

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HFPO_CAL-5_00080

Reagent ID: HFPO_CAL-5_00080

Description:	level5	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956337		
Comment:	level-5		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	5.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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HFPO_CAL-6_00080

Reagent ID: HFPO_CAL-6_00080

Description:	level6	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956338		
Comment:	level-6		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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HFPO_CAL-7_00321

Reagent ID: HFPO_CAL-7_00032

Description:	level7	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956339		
Comment:	level-7		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00006	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00006	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	25.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00006	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				50.00000	uL

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HFPO_CAL-8_00032

Reagent ID: HFPO_CAL-8_00032

Description:	level8	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956340		
Comment:	level-8		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	50.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				100.00000	uL

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HFPO_CAL-9_00001

Reagent ID: HFPO_CAL-9_00001

Description:	level9	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956342		
Comment:	level-9		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	100.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				200.00000	uL

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HFPO_ICV_00034

Reagent ID: HFPO_ICV_00034

Description:	ICV	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956341		
Comment:	ICV		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO ICV_00001	11/03/2018	0.19800	ug/mL	1.98000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO ICV_00001	ICV HFPO perwy		11/03/18				10.00000	uL

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HFPO-CAL-0-00032

Reagent ID: HFPO_CAL-0_00032

Description:	Blank	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	PFC_Dill_Solvent
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956304		
Comment:	ICB		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.6ug/ml		12/12/18				20.00000	uL

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HFPO_CAL-1_00032

Reagent ID: HFPO_CAL-1_00032

Description:	level1	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956308		
Comment:	level-1		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.25000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				0.50000	uL

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TestAmerica
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HFPO_CAL-2_00033

Reagent ID: HFPO_CAL-2_00033

Description:	level2	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956307		
Comment:	level-2		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.50000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				1.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-3_00032

Reagent ID: HFPO_CAL-3_00032

Description:	level3	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958309		
Comment:	level-3		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	1.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				2.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO - CAL - 4 - 00032

Reagent ID: HFPO_CAL-4_00032

Description:	level4	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956319		
Comment:	level-4		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	2.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				4.00000	uL

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TestAmerica
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HFPO_CAL-5_00080

Reagent ID: HFPO_CAL-5_00080

Description:	level5	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956337		
Comment:	level-5		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	5.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-6_00080

Reagent ID: HFPO_CAL-6_00080

Description:	level6	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/06/2018 -	Solvent Lot:	00016
Open Date:			
Container(s):	4956338		
Comment:	level-6		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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TestAmerica
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HFPO_CAL-7_00032

Reagent ID: HFPO_CAL-7_00032

Description:	level7	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956339		
Comment:	level-7		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	25.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				50.00000	uL

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HFPO_CAL-8_00032

Reagent ID: HFPO_CAL-8_00032

Description:	level8	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956340		
Comment:	level-8		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	50.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				100.00000	uL

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TestAmerica
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HFPO_CAL-9_00001

Reagent ID: HFPO_CAL-9_00001

Description:	level9	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956342		
Comment:	level-9		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	100.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				200.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_ICV_00034

Reagent ID: HFPO_ICV_00034

Description:	ICV	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956341		
Comment:	ICV		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO ICV_00001	11/03/2018	0.19800	ug/mL	1.95000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO ICV_00001	ICV HFPO perery		11/03/18				10.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-0_00032

Reagent ID: HFPO_CAL-0_00032

Description:	Blank	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	PFC_Dill_Solvent
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956304		
Comment:	ICB		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL

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TestAmerica
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HFPO_CAL-1_00032

Reagent ID: HFPO_CAL-1_00032

Description:	level1	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956305		
Comment:	level-1		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00006	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00006	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.25000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00006	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				0.50000	uL

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TestAmerica
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HFPO_CAL-2_00033

Reagent ID: HFPO_CAL-2_00033

Description:	level2	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958307		
Comment:	level-2		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	0.50000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				1.00000	uL

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HFPO_CAL-3_00032

Reagent ID: HFPO_CAL-3_00032

Description:	level3	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956309		
Comment:	level-3		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	1.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				2.00000	uL

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HFPO_CAL-4_00032

Reagent ID: HFPO_CAL-4_00032

Description:	level4	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956319		
Comment:	level-4		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	2.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				4.00000	uL

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THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-5_00080

Reagent ID: HFPO_CAL-5_00080

Description:	level5	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4958337		
Comment:	level-5		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	5.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-6_00080

Reagent ID: HFPO_CAL-6_00080

Description:	level6	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956338		
Comment:	level-6		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	10.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-7_00032

Reagent ID: HFPO_CAL-7_00032

Description:	level7	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956339		
Comment:	level-7		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	25.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				50.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-8_00032

Reagent ID: HFPO_CAL-8_00032

Description:	level8	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4956340		
Comment:	level-8		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (I6)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	50.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				100.00000	uL

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-9_00001

Reagent ID: HFPO_CAL-9_00001

Description:	level9	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4966342		
Comment:	level-9		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO Spike_00004	10/30/2018	0.50000	ug/mL	100.00000	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				200.00000	uL

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[illegible]

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_ICV_00034

Reagent ID: HFPO_ICV_00034

Description:	ICV	Expiration Date:	02/22/2018
No. of Bottles:	1	Laboratory:	TestAmerica Denver
Storage Location:	LCMS	Prepared By:	Meyer, Andrew GC
Reagent Volume:	1.000 mL	Solvent:	80:20 Methanol : H2O
Creation Date:	02/08/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4956341		
Comment:	ICV		

Reagent Analyte Information

Analyte	Source ID	Source Exp. Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
13C3 HFPO-DA	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00008	12/12/2018	0.50000	ug/mL	10.00000	ug/L
Perfluoro(2-propoxypropanoic) acid	HFPO ICV_00001	11/03/2018	0.19500	ug/mL	1.95009	ug/L

Source Reagents

Reagent	Description	Type	Expiration	Vendor	Vendor Lot #	Vendor Cat Lot #	Volume Used	Volume Units
HFPO I.S._00008	Internal Standard for HFPO 0.5ug/ml		12/12/18				20.00000	uL
HFPO ICV_00001	ICV HFPO pareny		11/03/18				10.00000	uL

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2/10/18

02/08/2018 14:53

Page 1 of 1

Shipping and Receiving Documents

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: TD BP DB	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 513-607-8127	E-Mail: michelle.johnston@testamericainc.com		Page: Page ___ of ___
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

280-105999 Chain of Custody

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wnwater, Snwsolid, Oneoaste/oil, BT=Tissue, AnAir)	Field Filtered Sample (Yes or No)	Perform MS/REF (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
FAY-D-5140MATTH-W1-1-013018	01.30.18	0856	G	W	N	N	X		HOLD ALL REMAINING
FAY-D-5240MATTH-W1-1-013018	01.30.18	0946	G	W	N	N	X		VOLUMES AS
FAY-D-6226MATTH-W1-1-013018	01.30.18	0956	G	W	N	N	X		RETAINS
FAY-D-4992HERSY-W1-1-013018	01.30.18	1105	G	W	N	N	X		
FAY-D-4976HERSY-W1-1-013018	01.30.18	1116	G	W	N	N	X		
FAY-D-48500LDSU-W1-1-013118	01.31.18	1007	G	W	N	N	X		
FAY-D-47810LDSU-W1-1-013118	01.31.18	1014	G	W	N	N	X		
FAY-D-7560TABOR-W1-1-013118	01.31.18	1428	G	W	N	N	X		
FAY-D-7560TABOR-W1-2-013118	01.31.18	1431	G	W	N	N	X		
FAY-D-5140SNWBR-W1-1-013118	01.31.18	1457	G	W	N	N	X		
FAY-D-5010SNWBR-W1-1-013118	01.31.18	1521	G	W	N	N	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
			TONY DOLL	01.10.18 / 1000	PARSONS
TONY DOLL	01.31.18/1830	PARSONS	[signature]	2-1-18 0900	TH-Den

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		0.8, 2.3, 1.3, 0.2, 0.9, 21.8 IR#5 +0.1 Transfer RP

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: JO DB	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page ___ of ___
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
FAY-D-49005NWBR-W1-1-013118	01.31.18	1550	G	W	N	N	X	4	HOLD ALL REMAINING
FAY-D-48635NWBR-W1-1-013118	01.31.18	1602	G	W	N	N	X	4	VOLUMES AS
FAY-D-48395NWBR-W1-1-013118	01.31.18	1617	G	W	N	N	X	4	RETAINS
FAY-D-48095NWBR-W1-1-013118	01.31.18	1619	G	W	N	N	X	4	
FAY-D-48305NWBR-W1-1-013118	01.31.18	1637	G	W	N	N	X	4	
~~FAY-D~~									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: TONY DOLL	Date/Time: 01.31.18 1830	Company: PARSONS	Received by: [signature]	Date/Time: 2-1-18 0900	Company: TA-Den
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: CP, CB	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page 1 of 1
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA-LC/MS/MS	Total Number of containers	Special Instructions/Note:
Preservation Code:							N		
FAY-D-3612PNEBR-W1-1-013118	1/31/18	1531	G	W	N	N	X		Hold all remain volume as retains.
FAY-D-3612PNEBR-W1-2-013118	1/31/18	1531	G	W	N	N	X		
FAY-D-6883BOTLE-W1-1-013118	1/31/18	1632	G	W	N	N	X		

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): [ ] Return To Client [ ] Disposal By Lab [ ] Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	1/31/18 1700	Parsons	[signature]	2-1-18 0900	TA-Den

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ron Stuart	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704 600 5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page ____ of ____
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2016 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA-LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
FAY-D-6900TABOR-WI-1-013018	1-30-18	1245	G				4		
FAY-D-5515MATTH-WI-1-013018	1-30-18	1516	G			Y	4		~~MS, REP, D~~
FAY-D-5455MATTH-WI-1-013018	1-30-18	1705	G				4		REMAIN
FAY-D-5455MATTH-WI-1-013018	1-30-18	1634	G				4		FOR
FAY-D-5505MATTH-WI-1-013018	1-30-18	1645	G				4		VOLUMES
FAY-D-5515MATTH-WI-1-013018D	1-30-18	1516	G				4		D AS RETAINS
FAY-D-5515MATTH-WI-1-013018MS	1-30-18	1516	G				4		MS ↓
FAY-D-5515MATTH-WI-1-013018REP	1-30-18	1516	G				4		REP ↓

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1-31-18		[signature]	2-1-18 0900	TA-Den
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: TP, NV, BP, AM	Lab PM: Johnston, Michelle	Carrier Tracking No(s): FedEx	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page ___ of ___
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
FAY-D-2808CHIMB-W1-1-012918	01.29.18	1411	G	W	N	N	X	4	HOLD ALL REMAINING
FAY-D-FB-012918	01.29.18	0700	G	W	N	N	X	4	VOLUMES AS
FAY-D-3067NC20H-W1-1-013118	01.31.18	1507	G	W	N	N	X	4	RETAINS
FAY-D-FB-013118	01.31.18	0830	G	W	N	N	X	4	
FAY-D-2713NC20H-W1-1-013118	01.31.18	1615	G	W	N	N	X	4	
FAY-D-3065NC20H-W1-1-013118	013118	1524	G	W	N	N	X	4	
FAY-D-2713NC20H-W1-2-013118	013118	1615	G	W	N	N	X	4	
FAY-D-3431DANDE-W1-1-013118	013118	1427	G	W	N	N	X	4	
FAY-D-3417DANDE-W1-1-013118	013118	1443	G	W	N	N	X	4	
FAY-D-3203LUGSL-W1-1-013118	013118	1554	G	W	N	N	X	4	
FAY-D-6859BUTLE-W1-1-013118	013118	1640	G	W	N	N	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
B. Painter	01/31/18 1714	PARSONS	Reed [illegible]	2-1-18 0900	[illegible]
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4956 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Sampler: CP, CB
Lab PM: Johnston, Michelle
Carrier Tracking No(s):
COC No:
Client Contact: Mr. Michael Aucoin
Phone:
E-Mail: michelle.johnston@testamericainc.com
Page: Page 1 of
Company: The Chemours Company FC, LLC
Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300
Due Date Requested:
City: Newark
TAT Requested (days): 10 Business Days
State, Zip: DE, 19713
Phone: 302.781.5873
PO #: LBIO-67048/84201000-2231QS1000
Email: michael.aucoin@aecom.com
WO #:
Project Name: FAY-2018 Residential Sampling
Project #: 28016904
Site:
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
FAY-D-3834HEART-WI-1-013118	1/31/18	0911	G	W	N	N	X		Hold all remains as retains
FAY-D-3834HEART-WI-2-013118	1/31/18	0859	G	W	N	N	X		
FAY-D-3845HEART-WI-1-013118	1/31/18	0931	G	W	N	N	X		
FAY-D-3845HEART-WI-2-013118	1/31/18	0935	G	W	N	N	X		
FAY-D-3909HEART-WI-1-013118	1/31/18	0954	G	W	N	N	X		
FAY-D-3909HEART-WI-2-013118	1/31/18	0956	G	W	N	N	X		
FAY-D-3911HEART-WI-1-013118	1/31/18	1012	G	W	N	N	X		
FAY-D-3930HEART-WI-1-013118	1/31/18	1022	G	W	N	N	X		
FAY-D-3930HEART-WI-2-013118	1/31/18	1037	G	W	N	N	X		
FAY-D-3933HEART-WI-1-013118	1/31/18	1059	G	W	N	N	X		
FAY-D-3933HEART-WI-2-013118	1/31/18	1102	G	W	N	N	X		

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/31/18 1700	Parsons	[signature]	2-1-18 0900	TA-Den

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: CP, CB	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-600-5746	E-Mail: michelle.johnston@testamericainc.com		Page: Page 1 of 1
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5873	PO #: LBIO-67048/84201000-2231OS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
FAY-D-3754HEART-WI-1-013018	1/30/18	1456	G	W	N	N	X		Hold all remaining samples.
FAY-D-3809HEART-WI-1-013018	1/30/18	1559	G	W	N	N	X		
FAY-D-3808HEART-WI-2-013018	1/30/18	1601	G	W	N	N	X		
FAY-D-3775HEART-WI-1-013018	1/30/18	1616	G	W	N	N	X		
FAY-D-3825HEART-WI-1-013118	1/31/18	0845	G	W	N	N	X		
FAY-D-3825HEART-WI-2-013018	1/30/18	1629	G	W	N	N	X		
FAY-D-3934HEART-WI-1-013118	1/31/18	1044	G	W	N	N	X		
FAY-D-3926HEART-WI-1-013118	1/31/18	1120	G	W	N	N	X		
FAY-D-3926HEART-WI-2-013118	1/31/18	1125	G	W	N	N	X		
FAY-D-3513TREBG-WI-1-013118	1/31/18	1445	G	W	N	N	X		
FAY-D-3513TREBG-WI-2-013118	1/31/18	1442	G	W	N	N	X		

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
[signature]	1/30/18 1700		[signature]	2-1-18 0900	TA-Den
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

230 105999 Renson COC

Received 2/4/13

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: TJ B DO	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone:	E-Mail: michelle.johnston@testamericainc.com		Page: Page ___ of ___
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4081 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5373	PO #: LBRO-57048/84201000-2281QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/waste, Air=Air, Aqueous)	Perform MS/MSD (Yes or No)	HPOLDA_LCMSMS	Total Number of containers	Special Instructions/Note:
FAY-[illegible]								
FAY-[illegible]								
FAY-[illegible]		0950						
FAY-[illegible]		[illegible]						
FAY-[illegible]								
FAY-[illegible]								
FAY-[illegible]								
FAY-[illegible]								
FAY-[illegible]								
FAY-[illegible]								

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

280-105999 Revised COC received 2/4/18

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: TENV BF AM	Lab PM: Johnston, Michelle	Carrier Tracking No(s): FedEx	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 704-800-5744	E-Mail: michelle.johnston@testamericainc.com		Page: Page ___ of ___
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.6873	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 28016904			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wastewater, Soil, Groundwater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD	HEPO-DA-LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code		X	X	N	X	
FAY-D-2408CHINE-W1-1-013118	01.31.18	1411	G	W	N	N	X		[illegible]
[illegible]	[illegible]	[illegible]	G	W	N	N	X		[illegible]
FAY-D-3067NC20H-W1-1-013118	01.31.18	1507	G	W	N	N	X		
FAY-D-FB-013118	01.31.18	0830	G	W	N	N	X		
FAY-D-2713NC20H-W1-1-013118	01.31.18	1615	G	W	N	N	X		
FAY-D-3065NC20H-W1-1-013118	01.31.18	1524	G	W	N	N	X		
FAY-D-2713NC20H-W1-1-013118	01.31.18	1615	G	W	N	N	X		
FAY-D-3431DANDE-W1-1-013118	01.31.18	~~1412~~	G	W	N	N	X		TIME: 1434
FAY-D-3417DANDE-W1-1-013118	01.31.18	1443	G	W	N	N	X		
FAY-D-3203LUGSL-W1-1-013118	01.31.18	1554	G	W	N	N	X		
FAY-D-1859BUTLE-W1-1-013118	01.31.18	1640	G	W	N	N	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	01/31/18 1714	PARSONS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

280-105999-1 Revised COC received 2/9/18

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone:	E-Mail: michelle.johnston@testamericainc.com		Page: Page ____ of ____
Company: The Chemours Company FC, LLC				Job #:
Address: c/o AECOM 4051 Ogletown Road, Suite 300	Due Date Requested:			
City: Newark	TAT Requested (days): 10 Business Days			
State, Zip: DE, 19713				
Phone: 302.781.5373	PO #: LBIO-67048/84201000-2231QS1000			
Email: michael.aucoin@aecom.com	WO #:			
Project Name: FAY-2018 Residential Sampling	Project #: 29016904			
Site:	SSOW#:			

Analysis Requested

Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | HFPO-DA- LC/MS/MS | Total Number of containers

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Sediment, Product, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
[illegible]	[illegible]	[illegible]	G				[illegible]		
[illegible]	[illegible]	[illegible]	G				[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	G				[illegible]		
[illegible]	[illegible]	[illegible]	G				[illegible]		
[illegible]	[illegible]	[illegible]	G				[illegible]		
[illegible]	[illegible]	[illegible]	G				[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	G				[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	G				[illegible]		[illegible]

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify) Level IV

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [illegible]	Date/Time: 2-8-18	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Chemours Company FC, LLC The

Job Number: 280-105999-1

Login Number: 105999
List Number: 1
Creator: Pottruff, Reed W

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	False	Refer to Job Narrative for details.
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	