TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-106192-1

Job Description: FAY-2018 Residential Sampling

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

Attention: Michael Aucoin

Approved for release.
Michelle A Johnston
Project Manager II
2/26/2018 12:58 PM

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02/26/2018

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: 280-106192-1

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 2/8/2018 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0º C, 3.2º C and 5.8º C.

Receipt Exceptions
The requested analyses were logged on a 15 business day turn around time due to current laboratory capacity.

The collection time on one of four containers of sample volume received for FAY-D-6919JOHNS-W1-1-020718 (280-106192-24) did not match the chain of custody. The discrepant container lists a collection time of 1549 while the chain of custody lists a collection time of 1529. The laboratory logged the sample collection time of the discrepant container per the chain of custody. The client was notified on 2/12/2018.

The sample ID on the container labels of four of four containers of sample volume received for FAY-D-6919JOHNS-W1-2-020718 (280-106192-25) did not match the chain of custody. The container labels list a sample ID of FAY-D-6919JOHNS-W1-2-020718 while the chain of custody lists a sample ID of FAY-D-6919JOHNS-W1-1-020718. The laboratory logged the sample ID per the chain of custody. The client was notified on 2/12/2018.

Per the revised chain of custody submitted to the laboratory by the client via email on 2/15/2018, the laboratory revised the client sample ID for lab sample 280-106192-25. The revised and original chain of custody were included in the final report.

Per the revised chain of custody submitted to the laboratory by the client via email on 2/22/2018, the laboratory revised client sample IDs for lab samples 280-106192-10 and 280-106192-11. The revised and original chain of custody were 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-3615PNEBR-W1-1-020718 (280-106192-28) 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-26COGDC-W1-1-020718 (280-106192-1), FAY-D-1206PURDI-W1-1-020718 (280-106192-2), FAY-D-118RZIER-W1-1-020718 (280-106192-3), FAY-D-18SNTEL-W1-1-020718 (280-106192-4), FAY-D-188RZIER-W1-1-020718 (280-106192-5), FAY-D-5343MRSHR-W1-1-020718 (280-106192-6), FAY-D-5431MRSHR-W1-1-020718 (280-106192-7), FAY-D-5668MRSHR-W1-1-020718 (280-106192-8), FAY-D-4115HORSE-W1-1-020718 (280-106192-9), FAY-D-3671HEART-W1-1-020618 (280-106192-10), FAY-D-5770DRGFL-W1-1-020718 (280-106192-11), FAY-D-3509TRERG-W1-1-020718 (280-106192-12), FAY-D-3509TRERG-W1-2-020718 (280-106192-13), FAY-D-49DRYES-W1-1-020718 (280-106192-14), FAY-D-3430DANDE-W1-1-020718 (280-106192-15), FAY-D-3809HEART-W1-1-020718 (280-106192-16), FAY-D-3809HEART-W1-2-020718 (280-106192-17), FAY-D-FB-020718 (280-106192-18), FAY-D-3397FALLV-W1-1-020718 (280-106192-19), FAY-D-6849BUTLE-W1-1-020618 (280-106192-20), FAY-D-3624HEART-W1-1-020618 (280-106192-21), FAY-D-6670TABOR-W1-1-020718 (280-106192-22), FAY-D-6908GRHRT-W1-1-020718 (280-106192-23), FAY-D-6919JOHNS-W1-1-020718 (280-106192-24), FAY-D-6919JOHNS-W1-2-020718 (280-106192-25), FAY-D-6951JOHNS-W1-1-020718 (280-106192-26),

FAY-D-7530TABOR-W1-1-020718 (280-106192-27), FAY-D-3615PNEBR-W1-1-020718 (280-106192-28), FAY-D-3615PNEBR-W1-2-020718 (280-106192-29) and FAY-D-3615PNEBR-W1-1-020718D (280-106192-30) were analyzed for Perfluorinated Hydrocarbons in accordance with DV-LC-0012. The samples were prepared on 02/20/2018 and analyzed on 02/21/2018.

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 batch 280-405485, 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.

The Sample Duplicate analysis data associated with prep batch 280-405589 was performed on sample FAY-D-3615PNEBR-W1-1-020718 (280-106192-28). The RPD data were not calculable as the parent and duplicate results were less than the reporting limit.

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-26COGDC-W1-1-020718	280-106192-1	2/7/2018 8:58	2/8/2018	2/21/2018	0.091

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 280-405485, 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 2/26/2018

Michelle A. Johnston, Project Manager Date

TestAmerica

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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-1206PURDI-W1-1-020718	280-106192-2	2/7/2018 13:37	2/8/2018	2/21/2018	<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.

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Michelle A. Johnston 2/26/2018

Michelle A. Johnston, Project Manager Date

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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-118RZIER-W1-1-020718	280-106192-3	2/7/2018 14:05	2/8/2018	2/21/2018	0.023

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.

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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-18SNTEL-W1-1-020718	280-106192-4	2/7/2018 14:42	2/8/2018	2/21/2018	<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.

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Michelle A. Johnston

2/26/2018

Michelle A. Johnston, Project Manager Date

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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-188RZIER-W1-1-020718	280-106192-5	2/7/2018 16:08	2/8/2018	2/21/2018	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.

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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%
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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-5343MRSHR-W1-1-020718	280-106192-6	2/7/2018 9:13	2/8/2018	2/21/2018	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)

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Michelle A. Johnston, Project Manager 2/26/2018 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-5431MRSHR-W1-1-020718	280-106192-7	2/7/2018 9:31	2/8/2018	2/21/2018	0.064

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)

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Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-5668MRSHR-W1-1-020718	280-106192-8	2/7/2018 11:56	2/8/2018	2/21/2018	<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)

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Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-4115HORSE-W1-1-020718	280-106192-9	2/7/2018 14:14	2/8/2018	2/21/2018	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:
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Michelle A. Johnston, Project Manager — Date 2/26/2018

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Chemours Sample Identification	TestAmerica Sample Identification	Collection Date/Time	Date Sample Received by TestAmerica	Analysis Date	HFPO-DA# (ug/L**)
FAY-D-3671HEART-W1-1-020618	280-106192-10	2/6/2018 10:08	2/8/2018	2/21/2018	<0.010

HFPO-DA – hexafluoropropylene oxide dimer acid, analyzed by method DV-LC-0012, Revision 14.
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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 280-405485, 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 2/26/2018

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-5770DRGFL-W1-1-020718	280-106192-11	2/7/2018 9:09	2/8/2018	2/21/2018	<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 280-405485, 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

2/26/2018

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-3509TRERG-W1-1-020718	280-106192-12	2/7/2018 11:02	2/8/2018	2/21/2018	0.017

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 280-405485, 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 2/26/2018

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-3509TRERG-W1-2-020718	280-106192-13	2/7/2018 11:04	2/8/2018	2/21/2018	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 280-405485, 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 2/26/2018

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-49DRYES-W1-1-020718	280-106192-14	2/7/2018 13:17	2/8/2018	2/21/2018	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%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-3430DANDE-W1-1-020718	280-106192-15	2/7/2018 14:05	2/8/2018	2/21/2018	0.038

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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-3809HEART-W1-1-020718	280-106192-16	2/7/2018 14:50	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-3809HEART-W1-2-020718	280-106192-17	2/7/2018 14:53	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-020718	280-106192-18	2/7/2018 7:00	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston 2/26/2018

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-3397FALLV-W1-1-020718	280-106192-19	2/7/2018 16:06	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-6849BUTLE-W1-1-020618	280-106192-20	2/6/2018 15:00	2/8/2018	2/21/2018	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.

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 280-405485, 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 2/26/2018

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-3624HEART-W1-1-020618	280-106192-21	2/6/2018 11:01	2/8/2018	2/21/2018	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 280-405485, 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 2/26/2018

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-6670TABOR-W1-1-020718	280-106192-22	2/7/2018 9:49	2/8/2018	2/21/2018	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%

TestAmerica Sample ID	Matrix Spike Recoveries
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston 2/26/2018

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-6908GRHRT-W1-1-020718	280-106192-23	2/7/2018 10:14	2/8/2018	2/21/2018	0.042

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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-6919JOHNS-W1-1-020718	280-106192-24	2/7/2018 15:29	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-6919JOHNS-W1-2-020718	280-106192-25	2/7/2018 15:30	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-6951JOHNS-W1-1-020718	280-106192-26	2/7/2018 15:44	2/8/2018	2/21/2018	0.016

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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston 2/26/2018

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-7530TABOR-W1-1-020718	280-106192-27	2/7/2018 16:11	2/8/2018	2/21/2018	0.016

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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-3615PNEBR-W1-1-020718	280-106192-28	2/7/2018 17:09	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-3615PNEBR-W1-2-020718	280-106192-29	2/7/2018 17:14	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

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-3615PNEBR-W1-1-020718D	280-106192-30	2/7/2018 17:09	2/8/2018	2/21/2018	<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
280-106192-28	116%

SUBMITTED BY:

Michelle A. Johnston

2/26/2018

Michelle A. Johnston, Project Manager Date

8321A : HFPO-DA

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
280-106192-1	FAY-D-26COGDC-W1-1-020718	HFPO-DA	0.091	0.091	0.010
280-106192-2	FAY-D-1206PURDI-W1-1-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-3	FAY-D-118RZIER-W1-1-020718	HFPO-DA	0.023	0.023	0.010
280-106192-4	FAY-D-18SNTEL-W1-1-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-5	FAY-D-188RZIER-W1-1-020718	HFPO-DA	0.012	0.012	0.010
280-106192-6	FAY-D-5343MRSHR-W1-1-020718	HFPO-DA	0.012	0.012	0.010
280-106192-7	FAY-D-5431MRSHR-W1-1-020718	HFPO-DA	0.064	0.064	0.010
280-106192-8	FAY-D-5668MRSHR-W1-1-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-9	FAY-D-4115HORSE-W1-1-020718	HFPO-DA	0.012	0.012	0.010
280-106192-10	FAY-D-3671HEART-W1-1-020618	HFPO-DA	<0.010	<0.010	0.010
280-106192-11	FAY-D-5770DRGFL-W1-1-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-12	FAY-D-3509TRERG-W1-1-020718	HFPO-DA	0.017	0.017	0.010
280-106192-13	FAY-D-3509TRERG-W1-2-020718	HFPO-DA	0.015	0.015	0.010
280-106192-14	FAY-D-49DRYES-W1-1-020718	HFPO-DA	0.031	0.031	0.010
280-106192-15	FAY-D-3430DANDE-W1-1-020718	HFPO-DA	0.038	0.038	0.010
280-106192-16	FAY-D-3809HEART-W1-1-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-17	FAY-D-3809HEART-W1-2-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-18	FAY-D-FB-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-19	FAY-D-3397FALLV-W1-1-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-20	FAY-D-6849BUTLE-W1-1-020618	HFPO-DA	0.079	0.079	0.010
280-106192-21	FAY-D-3624HEART-W1-1-020618	HFPO-DA	0.012	0.012	0.010
280-106192-22	FAY-D-6670TABOR-W1-1-020718	HFPO-DA	0.021	0.021	0.010
280-106192-23	FAY-D-6908GRHRT-W1-1-020718	HFPO-DA	0.042	0.042	0.010
280-106192-24	FAY-D-6919JOHNS-W1-1-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-25	FAY-D-6919JOHNS-W1-2-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-26	FAY-D-6951JOHNS-W1-1-020718	HFPO-DA	0.016	0.016	0.010
280-106192-27	FAY-D-7530TABOR-W1-1-020718	HFPO-DA	0.016	0.016	0.010
280-106192-28	FAY-D-3615PNEBR-W1-1-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-28 DU	FAY-D-3615PNEBR-W1-1-020718	HFPO-DA	<0.010		0.010
280-106192-29	FAY-D-3615PNEBR-W1-2-020718	HFPO-DA	<0.010	<0.010	0.010
280-106192-30	FAY-D-3615PNEBR-W1-1-020718D	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: 280-106192-1

Client Sample ID: FAY-D-26COGDC-W1-1-020718 — Lab Sample ID: 280-106192-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.091		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-1206PURDI-W1-1-020718 — Lab Sample ID: 280-106192-2

No Detections.

Client Sample ID: FAY-D-118RZIER-W1-1-020718 — Lab Sample ID: 280-106192-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.023		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-18SNTEL-W1-1-020718 — Lab Sample ID: 280-106192-4

No Detections.

Client Sample ID: FAY-D-188RZIER-W1-1-020718 — Lab Sample ID: 280-106192-5

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-5343MRSHR-W1-1-020718 — Lab Sample ID: 280-106192-6

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-5431MRSHR-W1-1-020718 — Lab Sample ID: 280-106192-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.064		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-5668MRSHR-W1-1-020718 — Lab Sample ID: 280-106192-8

No Detections.

Client Sample ID: FAY-D-4115HORSE-W1-1-020718 — Lab Sample ID: 280-106192-9

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-3671HEART-W1-1-020618 — Lab Sample ID: 280-106192-10

No Detections.

Client Sample ID: FAY-D-5770DRGFL-W1-1-020718 — Lab Sample ID: 280-106192-11

No Detections.

Client Sample ID: FAY-D-3509TRERG-W1-1-020718 — Lab Sample ID: 280-106192-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.017		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: 280-106192-1

Client Sample ID: FAY-D-3509TRERG-W1-2-020718 — Lab Sample ID: 280-106192-13

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-49DRYES-W1-1-020718 — Lab Sample ID: 280-106192-14

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-3430DANDE-W1-1-020718 — Lab Sample ID: 280-106192-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.038		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3809HEART-W1-1-020718 — Lab Sample ID: 280-106192-16

No Detections.

Client Sample ID: FAY-D-3809HEART-W1-2-020718 — Lab Sample ID: 280-106192-17

No Detections.

Client Sample ID: FAY-D-FB-020718 — Lab Sample ID: 280-106192-18

No Detections.

Client Sample ID: FAY-D-3397FALLV-W1-1-020718 — Lab Sample ID: 280-106192-19

No Detections.

Client Sample ID: FAY-D-6849BUTLE-W1-1-020618 — Lab Sample ID: 280-106192-20

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-3624HEART-W1-1-020618 — Lab Sample ID: 280-106192-21

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-6670TABOR-W1-1-020718 — Lab Sample ID: 280-106192-22

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-6908GRHRT-W1-1-020718 — Lab Sample ID: 280-106192-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.042		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-6919JOHNS-W1-1-020718 — Lab Sample ID: 280-106192-24

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: 280-106192-1

Client Sample ID: FAY-D-6919JOHNS-W1-2-020718 — Lab Sample ID: 280-106192-25

No Detections.

Client Sample ID: FAY-D-6951JOHNS-W1-1-020718 — Lab Sample ID: 280-106192-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.016		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-7530TABOR-W1-1-020718 — Lab Sample ID: 280-106192-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.016		0.010		ug/L	1		8321A	Total/NA

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718 — Lab Sample ID: 280-106192-28

No Detections.

Client Sample ID: FAY-D-3615PNEBR-W1-2-020718 — Lab Sample ID: 280-106192-29

No Detections.

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718D — Lab Sample ID: 280-106192-30

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: 280-106192-1

Client Sample ID: FAY-D-26COGDC-W1-1-020718

Lab Sample ID: 280-106192-1

Date Collected: 02/07/18 08:58
Date Received: 02/08/18 09:10

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.091**		0.010		ug/L		02/20/18 10:22	02/21/18 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*84*		*50 - 200*	*02/20/18 10:22*	*02/21/18 09:49*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-1206PURDI-W1-1-020718

Lab Sample ID: 280-106192-2

Date Collected: 02/07/18 13:37
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 09:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*83*		*50 - 200*	*02/20/18 10:22*	*02/21/18 09:53*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-118RZIER-W1-1-020718

Lab Sample ID: 280-106192-3

Date Collected: 02/07/18 14:05
Date Received: 02/08/18 09:10

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.023**		0.010		ug/L		02/20/18 10:22	02/21/18 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*83*		*50 - 200*	*02/20/18 10:22*	*02/21/18 09:56*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-18SNTEL-W1-1-020718

Lab Sample ID: 280-106192-4

Date Collected: 02/07/18 14:42
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*86*		*50 - 200*	*02/20/18 10:22*	*02/21/18 09:59*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-188RZIER-W1-1-020718

Lab Sample ID: 280-106192-5

Date Collected: 02/07/18 16:08
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*87*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:02*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-5343MRSHR-W1-1-020718

Lab Sample ID: 280-106192-6

Date Collected: 02/07/18 09:13
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:06*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-5431MRSHR-W1-1-020718

Lab Sample ID: 280-106192-7

Date Collected: 02/07/18 09:31
Date Received: 02/08/18 09:10

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.064**		0.010		ug/L		02/20/18 10:22	02/21/18 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*75*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:12*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-5668MRSHR-W1-1-020718

Lab Sample ID: 280-106192-8

Date Collected: 02/07/18 11:56
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*81*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:15*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-4115HORSE-W1-1-020718

Lab Sample ID: 280-106192-9

Date Collected: 02/07/18 14:14
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*83*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:19*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3671HEART-W1-1-020618

Lab Sample ID: 280-106192-10

Date Collected: 02/06/18 10:08
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*88*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:22*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-5770DRGFL-W1-1-020718

Lab Sample ID: 280-106192-11

Date Collected: 02/07/18 09:09
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*82*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:25*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3509TRERG-W1-1-020718

Lab Sample ID: 280-106192-12

Date Collected: 02/07/18 11:02
Date Received: 02/08/18 09:10

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.017**		0.010		ug/L		02/20/18 10:22	02/21/18 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*89*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:28*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3509TRERG-W1-2-020718

Lab Sample ID: 280-106192-13

Date Collected: 02/07/18 11:04
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*86*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:32*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-49DRYES-W1-1-020718

Lab Sample ID: 280-106192-14

Date Collected: 02/07/18 13:17
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*107*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:33*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3430DANDE-W1-1-020718

Lab Sample ID: 280-106192-15

Date Collected: 02/07/18 14:05
Date Received: 02/08/18 09:10

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.038**		0.010		ug/L		02/20/18 21:07	02/21/18 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*84*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:39*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3809HEART-W1-1-020718

Lab Sample ID: 280-106192-16

Date Collected: 02/07/18 14:50
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*91*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:43*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3809HEART-W1-2-020718

Lab Sample ID: 280-106192-17

Date Collected: 02/07/18 14:53
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*86*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:46*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-FB-020718

Lab Sample ID: 280-106192-18

Date Collected: 02/07/18 07:00
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*90*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:49*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3397FALLV-W1-1-020718

Lab Sample ID: 280-106192-19

Date Collected: 02/07/18 16:06
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*88*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:53*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-6849BUTLE-W1-1-020618

Lab Sample ID: 280-106192-20

Date Collected: 02/06/18 15:00
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*83*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:35*	*1*

Client Sample ID: FAY-D-3624HEART-W1-1-020618

Lab Sample ID: 280-106192-21

Date Collected: 02/06/18 11:01
Date Received: 02/08/18 09:10

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		02/20/18 10:22	02/21/18 10:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*88*		*50 - 200*	*02/20/18 10:22*	*02/21/18 10:38*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-6670TABOR-W1-1-020718

Lab Sample ID: 280-106192-22

Date Collected: 02/07/18 09:49
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*88*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:56*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-6908GRHRT-W1-1-020718

Lab Sample ID: 280-106192-23

Date Collected: 02/07/18 10:14
Date Received: 02/08/18 09:10

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.042**		0.010		ug/L		02/20/18 21:07	02/21/18 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*111*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:59*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-6919JOHNS-W1-1-020718

Lab Sample ID: 280-106192-24

Date Collected: 02/07/18 15:29
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*90*		*50 - 200*	*02/20/18 21:07*	*02/21/18 15:03*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-6919JOHNS-W1-2-020718

Lab Sample ID: 280-106192-25

Date Collected: 02/07/18 15:30
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*91*		*50 - 200*	*02/20/18 21:07*	*02/21/18 15:06*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-6951JOHNS-W1-1-020718

Lab Sample ID: 280-106192-26

Date Collected: 02/07/18 15:44
Date Received: 02/08/18 09:10

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.016**		0.010		ug/L		02/20/18 21:07	02/21/18 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*110*		*50 - 200*	*02/20/18 21:07*	*02/21/18 15:09*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-7530TABOR-W1-1-020718

Lab Sample ID: 280-106192-27

Date Collected: 02/07/18 16:11
Date Received: 02/08/18 09:10

Matrix: Water

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	**0.016**		0.010		ug/L		02/20/18 21:07	02/21/18 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*88*		*50 - 200*	*02/20/18 21:07*	*02/21/18 15:16*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718

Lab Sample ID: 280-106192-28

Date Collected: 02/07/18 17:09
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*91*		*50 - 200*	*02/20/18 21:07*	*02/21/18 15:19*	*1*

Client Sample ID: FAY-D-3615PNEBR-W1-2-020718

Lab Sample ID: 280-106192-29

Date Collected: 02/07/18 17:14

Matrix: Water

Date Received: 02/08/18 09:10

Method: 8321A - HFPO-DA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/20/18 21:07	02/21/18 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*94*		*50 - 200*	*02/20/18 21:07*	*02/21/18 15:29*	*1*

Client Sample Results

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718D

Lab Sample ID: 280-106192-30

Date Collected: 02/07/18 17:09
Date Received: 02/08/18 09:10

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		02/20/18 21:07	02/21/18 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*109*		*50 - 200*	*02/20/18 21:07*	*02/21/18 15:32*	*1*

Default Detection Limits

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

TestAmerica Job ID: 280-106192-1

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: 280-106192-1

Method: 8321A - HFPO-DA

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	HFPODA (50-200)
280-106192-1	FAY-D-26COGDC-W1-1-020718	84
280-106192-2	FAY-D-1206PURDI-W1-1-02071	83
280-106192-3	FAY-D-118RZIER-W1-1-020718	83
280-106192-4	FAY-D-18SNTEL-W1-1-020718	86
280-106192-5	FAY-D-188RZIER-W1-1-020718	87
280-106192-6	FAY-D-5343MRSHR-W1-1-0207	82
280-106192-7	FAY-D-5431MRSHR-W1-1-0207	75
280-106192-8	FAY-D-5668MRSHR-W1-1-0207	81
280-106192-9	FAY-D-4115HORSE-W1-1-0207	83
280-106192-10	FAY-D-3671HEART-W1-1-0206	88
280-106192-11	FAY-D-5770DRGFL-W1-1-0207	82
280-106192-12	FAY-D-3509TRERG-W1-1-0207	89
280-106192-13	FAY-D-3509TRERG-W1-2-0207	86
280-106192-14	FAY-D-49DRYES-W1-1-020718	107
280-106192-15	FAY-D-3430DANDE-W1-1-0207	84
280-106192-16	FAY-D-3809HEART-W1-1-0207	91
280-106192-17	FAY-D-3809HEART-W1-2-0207	86
280-106192-18	FAY-D-FB-020718	90
280-106192-19	FAY-D-3397FALLV-W1-1-02071	88
280-106192-20	FAY-D-6849BUTLE-W1-1-0206	83
280-106192-21	FAY-D-3624HEART-W1-1-0206	88
280-106192-22	FAY-D-6670TABOR-W1-1-0207	88
280-106192-23	FAY-D-6908GRHRT-W1-1-0207	111
280-106192-24	FAY-D-6919JOHNS-W1-1-0207	90
280-106192-25	FAY-D-6919JOHNS-W1-2-0207	91
280-106192-26	FAY-D-6951JOHNS-W1-1-0207	110
280-106192-27	FAY-D-7530TABOR-W1-1-0207	88
280-106192-28	FAY-D-3615PNEBR-W1-1-0207	91
280-106192-28 DU	FAY-D-3615PNEBR-W1-1-0207	94
280-106192-28 MS	FAY-D-3615PNEBR-W1-1-0207	93
280-106192-29	FAY-D-3615PNEBR-W1-2-0207	94
280-106192-30	FAY-D-3615PNEBR-W1-1-0207	109
DLCK 280-404345/13	Lab Control Sample	104
LCS 280-405485/2-A	Lab Control Sample	85
LCS 280-405589/2-A	Lab Control Sample	94
LCSD 280-405485/4-A	Lab Control Sample Dup	90
LCSD 280-405589/3-A	Lab Control Sample Dup	89
LLCS 280-405485/3-A	Lab Control Sample	89
LLCS 280-405589/4-A	Lab Control Sample	91
MB 280-405485/1-A	Method Blank	83
MB 280-405589/1-A	Method Blank	91

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

HFPODA = 13C3 HFPO-DA

Method: 8321A - HFPO-DA

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*

Lab Sample ID: MB 280-405485/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405661 — **Prep Batch: 405485**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/20/18 10:22	02/21/18 09:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*83*		*50 - 200*	*02/20/18 10:22*	*02/21/18 09:36*	*1*

Lab Sample ID: LCS 280-405485/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405661 — **Prep Batch: 405485**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA			0.200	0.202		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*85*		*50 - 200*

Lab Sample ID: LCSD 280-405485/4-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405661 — **Prep Batch: 405485**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA			0.200	0.189		ug/L		95	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*90*		*50 - 200*

Lab Sample ID: LLCS 280-405485/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405661 — **Prep Batch: 405485**

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
HFPO-DA			0.0200	0.0190		ug/L		95	70 - 130		

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*89*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: MB 280-405589/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405707 — **Prep Batch: 405589**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA	<0.010		0.010		ug/L		02/20/18 21:07	02/21/18 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C3 HFPO-DA	*91*		*50 - 200*	*02/20/18 21:07*	*02/21/18 14:04*	*1*

Lab Sample ID: LCS 280-405589/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405707 — **Prep Batch: 405589**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.200	0.212		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C3 HFPO-DA	*94*		*50 - 200*

Lab Sample ID: LCSD 280-405589/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405707 — **Prep Batch: 405589**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HFPO-DA	0.200	0.204		ug/L		102	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C3 HFPO-DA	*89*		*50 - 200*

Lab Sample ID: LLCS 280-405589/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405707 — **Prep Batch: 405589**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	0.0200	0.0166		ug/L		83	70 - 130

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C3 HFPO-DA	*91*		*50 - 200*

Lab Sample ID: 280-106192-28 MS — **Client Sample ID: FAY-D-3615PNEBR-W1-1-020718**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 405707 — **Prep Batch: 405589**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
HFPO-DA	<0.010		0.177	0.205		ug/L		116	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
13C3 HFPO-DA	*93*		*50 - 200*

Method: 8321A - HFPO-DA (Continued)

Lab Sample ID: 280-106192-28 DU
Matrix: Water
Analysis Batch: 405707

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718
Prep Type: Total/NA
Prep Batch: 405589

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
HFPO-DA	<0.010			<0.010		ug/L				NC	20

Surrogate	*DU %Recovery*	*DU Qualifier*	*Limits*
13C3 HFPO-DA	*94*		*50 - 200*

LCMS

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	

Prep Batch: 405485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106192-1	FAY-D-26COGDC-W1-1-020718	Total/NA	Water	3535	
280-106192-2	FAY-D-1206PURDI-W1-1-020718	Total/NA	Water	3535	
280-106192-3	FAY-D-118RZIER-W1-1-020718	Total/NA	Water	3535	
280-106192-4	FAY-D-18SNTEL-W1-1-020718	Total/NA	Water	3535	
280-106192-5	FAY-D-188RZIER-W1-1-020718	Total/NA	Water	3535	
280-106192-6	FAY-D-5343MRSHR-W1-1-020718	Total/NA	Water	3535	
280-106192-7	FAY-D-5431MRSHR-W1-1-020718	Total/NA	Water	3535	
280-106192-8	FAY-D-5668MRSHR-W1-1-020718	Total/NA	Water	3535	
280-106192-9	FAY-D-4115HORSE-W1-1-020718	Total/NA	Water	3535	
280-106192-10	FAY-D-3671HEART-W1-1-020618	Total/NA	Water	3535	
280-106192-11	FAY-D-5770DRGFL-W1-1-020718	Total/NA	Water	3535	
280-106192-12	FAY-D-3509TRERG-W1-1-020718	Total/NA	Water	3535	
280-106192-13	FAY-D-3509TRERG-W1-2-020718	Total/NA	Water	3535	
280-106192-20	FAY-D-6849BUTLE-W1-1-020618	Total/NA	Water	3535	
280-106192-21	FAY-D-3624HEART-W1-1-020618	Total/NA	Water	3535	
MB 280-405485/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-405485/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-405485/4-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-405485/3-A	Lab Control Sample	Total/NA	Water	3535	

Prep Batch: 405589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106192-14	FAY-D-49DRYES-W1-1-020718	Total/NA	Water	3535	
280-106192-15	FAY-D-3430DANDE-W1-1-020718	Total/NA	Water	3535	
280-106192-16	FAY-D-3809HEART-W1-1-020718	Total/NA	Water	3535	
280-106192-17	FAY-D-3809HEART-W1-2-020718	Total/NA	Water	3535	
280-106192-18	FAY-D-FB-020718	Total/NA	Water	3535	
280-106192-19	FAY-D-3397FALLV-W1-1-020718	Total/NA	Water	3535	
280-106192-22	FAY-D-6670TABOR-W1-1-020718	Total/NA	Water	3535	
280-106192-23	FAY-D-6908GRHRT-W1-1-020718	Total/NA	Water	3535	
280-106192-24	FAY-D-6919JOHNS-W1-1-020718	Total/NA	Water	3535	
280-106192-25	FAY-D-6919JOHNS-W1-2-020718	Total/NA	Water	3535	
280-106192-26	FAY-D-6951JOHNS-W1-1-020718	Total/NA	Water	3535	
280-106192-27	FAY-D-7530TABOR-W1-1-020718	Total/NA	Water	3535	
280-106192-28	FAY-D-3615PNEBR-W1-1-020718	Total/NA	Water	3535	
280-106192-29	FAY-D-3615PNEBR-W1-2-020718	Total/NA	Water	3535	
280-106192-30	FAY-D-3615PNEBR-W1-1-020718D	Total/NA	Water	3535	
MB 280-405589/1-A	Method Blank	Total/NA	Water	3535	
LCS 280-405589/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 280-405589/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
LLCS 280-405589/4-A	Lab Control Sample	Total/NA	Water	3535	
280-106192-28 MS	FAY-D-3615PNEBR-W1-1-020718	Total/NA	Water	3535	
280-106192-28 DU	FAY-D-3615PNEBR-W1-1-020718	Total/NA	Water	3535	

Analysis Batch: 405661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106192-1	FAY-D-26COGDC-W1-1-020718	Total/NA	Water	8321A	405485

LCMS (Continued)

Analysis Batch: 405661 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106192-2	FAY-D-1206PURDI-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-3	FAY-D-118RZIER-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-4	FAY-D-18SNTEL-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-5	FAY-D-188RZIER-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-6	FAY-D-5343MRSHR-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-7	FAY-D-5431MRSHR-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-8	FAY-D-5668MRSHR-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-9	FAY-D-4115HORSE-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-10	FAY-D-3671HEART-W1-1-020618	Total/NA	Water	8321A	405485
280-106192-11	FAY-D-5770DRGFL-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-12	FAY-D-3509TRERG-W1-1-020718	Total/NA	Water	8321A	405485
280-106192-13	FAY-D-3509TRERG-W1-2-020718	Total/NA	Water	8321A	405485
280-106192-20	FAY-D-6849BUTLE-W1-1-020618	Total/NA	Water	8321A	405485
280-106192-21	FAY-D-3624HEART-W1-1-020618	Total/NA	Water	8321A	405485
MB 280-405485/1-A	Method Blank	Total/NA	Water	8321A	405485
LCS 280-405485/2-A	Lab Control Sample	Total/NA	Water	8321A	405485
LCSD 280-405485/4-A	Lab Control Sample Dup	Total/NA	Water	8321A	405485
LLCS 280-405485/3-A	Lab Control Sample	Total/NA	Water	8321A	405485

Analysis Batch: 405707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-106192-14	FAY-D-49DRYES-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-15	FAY-D-3430DANDE-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-16	FAY-D-3809HEART-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-17	FAY-D-3809HEART-W1-2-020718	Total/NA	Water	8321A	405589
280-106192-18	FAY-D-FB-020718	Total/NA	Water	8321A	405589
280-106192-19	FAY-D-3397FALLV-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-22	FAY-D-6670TABOR-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-23	FAY-D-6908GRHRT-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-24	FAY-D-6919JOHNS-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-25	FAY-D-6919JOHNS-W1-2-020718	Total/NA	Water	8321A	405589
280-106192-26	FAY-D-6951JOHNS-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-27	FAY-D-7530TABOR-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-28	FAY-D-3615PNEBR-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-29	FAY-D-3615PNEBR-W1-2-020718	Total/NA	Water	8321A	405589
280-106192-30	FAY-D-3615PNEBR-W1-1-020718D	Total/NA	Water	8321A	405589
MB 280-405589/1-A	Method Blank	Total/NA	Water	8321A	405589
LCS 280-405589/2-A	Lab Control Sample	Total/NA	Water	8321A	405589
LCSD 280-405589/3-A	Lab Control Sample Dup	Total/NA	Water	8321A	405589
LLCS 280-405589/4-A	Lab Control Sample	Total/NA	Water	8321A	405589
280-106192-28 MS	FAY-D-3615PNEBR-W1-1-020718	Total/NA	Water	8321A	405589
280-106192-28 DU	FAY-D-3615PNEBR-W1-1-020718	Total/NA	Water	8321A	405589

Lab Chronicle

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

TestAmerica Job ID: 280-106192-1

Client Sample ID: FAY-D-26COGDC-W1-1-020718 — Lab Sample ID: 280-106192-1

Date Collected: 02/07/18 08:58
Date Received: 02/08/18 09:10
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			297.7 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 09:49	AGCM	TAL DEN

Client Sample ID: FAY-D-1206PURDI-W1-1-020718 — Lab Sample ID: 280-106192-2

Date Collected: 02/07/18 13:37
Date Received: 02/08/18 09:10
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			300.5 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 09:53	AGCM	TAL DEN

Client Sample ID: FAY-D-118RZIER-W1-1-020718 — Lab Sample ID: 280-106192-3

Date Collected: 02/07/18 14:05
Date Received: 02/08/18 09:10
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			303.6 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 09:56	AGCM	TAL DEN

Client Sample ID: FAY-D-18SNTEL-W1-1-020718 — Lab Sample ID: 280-106192-4

Date Collected: 02/07/18 14:42
Date Received: 02/08/18 09:10
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			307.2 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 09:59	AGCM	TAL DEN

Client Sample ID: FAY-D-188RZIER-W1-1-020718 — Lab Sample ID: 280-106192-5

Date Collected: 02/07/18 16:08
Date Received: 02/08/18 09:10
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			312.9 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:02	AGCM	TAL DEN

Client Sample ID: FAY-D-5343MRSHR-W1-1-020718 — Lab Sample ID: 280-106192-6

Date Collected: 02/07/18 09:13
Date Received: 02/08/18 09:10
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	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:06	AGCM	TAL DEN

Client Sample ID: FAY-D-5431MRSHR-W1-1-020718 — Lab Sample ID: 280-106192-7

Date Collected: 02/07/18 09:31
Date Received: 02/08/18 09:10
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			272.6 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:12	AGCM	TAL DEN

Client Sample ID: FAY-D-5668MRSHR-W1-1-020718 — Lab Sample ID: 280-106192-8

Date Collected: 02/07/18 11:56
Date Received: 02/08/18 09:10
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	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:15	AGCM	TAL DEN

Client Sample ID: FAY-D-4115HORSE-W1-1-020718 — Lab Sample ID: 280-106192-9

Date Collected: 02/07/18 14:14
Date Received: 02/08/18 09:10
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			278.1 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:19	AGCM	TAL DEN

Client Sample ID: FAY-D-3671HEART-W1-1-020618 — Lab Sample ID: 280-106192-10

Date Collected: 02/06/18 10:08
Date Received: 02/08/18 09:10
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			280.3 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:22	AGCM	TAL DEN

Client Sample ID: FAY-D-5770DRGFL-W1-1-020718 — Lab Sample ID: 280-106192-11

Date Collected: 02/07/18 09:09
Date Received: 02/08/18 09:10
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			281.4 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:25	AGCM	TAL DEN

Client Sample ID: FAY-D-3509TRERG-W1-1-020718 — Lab Sample ID: 280-106192-12

Date Collected: 02/07/18 11:02
Date Received: 02/08/18 09:10
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	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:28	AGCM	TAL DEN

Client Sample ID: FAY-D-3509TRERG-W1-2-020718 — Lab Sample ID: 280-106192-13

Date Collected: 02/07/18 11:04
Date Received: 02/08/18 09:10
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			284.8 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:32	AGCM	TAL DEN

Client Sample ID: FAY-D-49DRYES-W1-1-020718 — Lab Sample ID: 280-106192-14

Date Collected: 02/07/18 13:17
Date Received: 02/08/18 09:10
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			292.3 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:33	AGCM	TAL DEN

Client Sample ID: FAY-D-3430DANDE-W1-1-020718 — Lab Sample ID: 280-106192-15

Date Collected: 02/07/18 14:05
Date Received: 02/08/18 09:10
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			280.2 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:39	AGCM	TAL DEN

Client Sample ID: FAY-D-3809HEART-W1-1-020718 — Lab Sample ID: 280-106192-16

Date Collected: 02/07/18 14:50
Date Received: 02/08/18 09:10
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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:43	AGCM	TAL DEN

Client Sample ID: FAY-D-3809HEART-W1-2-020718 — Lab Sample ID: 280-106192-17

Date Collected: 02/07/18 14:53
Date Received: 02/08/18 09:10
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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:46	AGCM	TAL DEN

Client Sample ID: FAY-D-FB-020718 — Lab Sample ID: 280-106192-18

Date Collected: 02/07/18 07:00
Date Received: 02/08/18 09:10
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			284.2 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:49	AGCM	TAL DEN

Client Sample ID: FAY-D-3397FALLV-W1-1-020718 — Lab Sample ID: 280-106192-19

Date Collected: 02/07/18 16:06
Date Received: 02/08/18 09:10
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			279.6 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:53	AGCM	TAL DEN

Client Sample ID: FAY-D-6849BUTLE-W1-1-020618 — Lab Sample ID: 280-106192-20

Date Collected: 02/06/18 15:00
Date Received: 02/08/18 09:10
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			278.3 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:35	AGCM	TAL DEN

Client Sample ID: FAY-D-3624HEART-W1-1-020618 — Lab Sample ID: 280-106192-21

Date Collected: 02/06/18 11:01
Date Received: 02/08/18 09:10
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			296.6 mL	5 mL	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 10:38	AGCM	TAL DEN

Client Sample ID: FAY-D-6670TABOR-W1-1-020718 — Lab Sample ID: 280-106192-22

Date Collected: 02/07/18 09:49
Date Received: 02/08/18 09:10
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			263.4 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:56	AGCM	TAL DEN

Client Sample ID: FAY-D-6908GRHRT-W1-1-020718 — Lab Sample ID: 280-106192-23

Date Collected: 02/07/18 10:14
Date Received: 02/08/18 09:10
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			291.8 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:59	AGCM	TAL DEN

Client Sample ID: FAY-D-6919JOHNS-W1-1-020718 — Lab Sample ID: 280-106192-24

Date Collected: 02/07/18 15:29
Date Received: 02/08/18 09:10
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			280.1 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:03	AGCM	TAL DEN

Client Sample ID: FAY-D-6919JOHNS-W1-2-020718 — Lab Sample ID: 280-106192-25

Date Collected: 02/07/18 15:30
Date Received: 02/08/18 09:10
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			285.2 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:06	AGCM	TAL DEN

Client Sample ID: FAY-D-6951JOHNS-W1-1-020718 — Lab Sample ID: 280-106192-26

Date Collected: 02/07/18 15:44
Date Received: 02/08/18 09:10
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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:09	AGCM	TAL DEN

Client Sample ID: FAY-D-7530TABOR-W1-1-020718 — Lab Sample ID: 280-106192-27

Date Collected: 02/07/18 16:11
Date Received: 02/08/18 09:10
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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:16	AGCM	TAL DEN

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718 — Lab Sample ID: 280-106192-28

Date Collected: 02/07/18 17:09
Date Received: 02/08/18 09:10
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			272.5 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:19	AGCM	TAL DEN

Client Sample ID: FAY-D-3615PNEBR-W1-2-020718 — Lab Sample ID: 280-106192-29

Date Collected: 02/07/18 17:14
Date Received: 02/08/18 09:10
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			282.4 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:29	AGCM	TAL DEN

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718D — Lab Sample ID: 280-106192-30

Date Collected: 02/07/18 17:09
Date Received: 02/08/18 09:10
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			270.6 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:32	AGCM	TAL DEN

Client Sample ID: Method Blank — Lab Sample ID: MB 280-405485/1-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	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 09:36	AGCM	TAL DEN

Client Sample ID: Method Blank — Lab Sample ID: MB 280-405589/1-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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:04	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 280-405485/2-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	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 09:39	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 280-405589/2-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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:07	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-405485/4-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	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 09:46	AGCM	TAL DEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 280-405589/3-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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:10	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LLCS 280-405485/3-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	405485	02/20/18 10:22	DFB1	TAL DEN
Total/NA	Analysis	8321A		1			405661	02/21/18 09:43	AGCM	TAL DEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LLCS 280-405589/4-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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 14:13	AGCM	TAL DEN

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718 — Lab Sample ID: 280-106192-28 MS

Date Collected: 02/07/18 17:09
Date Received: 02/08/18 09:10
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			282.6 mL	5 mL	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:25	AGCM	TAL DEN

Client Sample ID: FAY-D-3615PNEBR-W1-1-020718 — Lab Sample ID: 280-106192-28 DU

Date Collected: 02/07/18 17:09
Date Received: 02/08/18 09:10
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	405589	02/20/18 21:07	CDC	TAL DEN
Total/NA	Analysis	8321A		1			405707	02/21/18 15:22	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: 280-106192-1

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: 280-106192-1

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: 280-106192-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-106192-1	FAY-D-26COGDC-W1-1-020718	Water	02/07/18 08:58	02/08/18 09:10
280-106192-2	FAY-D-1206PURDI-W1-1-020718	Water	02/07/18 13:37	02/08/18 09:10
280-106192-3	FAY-D-118RZIER-W1-1-020718	Water	02/07/18 14:05	02/08/18 09:10
280-106192-4	FAY-D-18SNTEL-W1-1-020718	Water	02/07/18 14:42	02/08/18 09:10
280-106192-5	FAY-D-188RZIER-W1-1-020718	Water	02/07/18 16:08	02/08/18 09:10
280-106192-6	FAY-D-5343MRSHR-W1-1-020718	Water	02/07/18 09:13	02/08/18 09:10
280-106192-7	FAY-D-5431MRSHR-W1-1-020718	Water	02/07/18 09:31	02/08/18 09:10
280-106192-8	FAY-D-5668MRSHR-W1-1-020718	Water	02/07/18 11:56	02/08/18 09:10
280-106192-9	FAY-D-4115HORSE-W1-1-020718	Water	02/07/18 14:14	02/08/18 09:10
280-106192-10	FAY-D-3671HEART-W1-1-020618	Water	02/06/18 10:08	02/08/18 09:10
280-106192-11	FAY-D-5770DRGFL-W1-1-020718	Water	02/07/18 09:09	02/08/18 09:10
280-106192-12	FAY-D-3509TRERG-W1-1-020718	Water	02/07/18 11:02	02/08/18 09:10
280-106192-13	FAY-D-3509TRERG-W1-2-020718	Water	02/07/18 11:04	02/08/18 09:10
280-106192-14	FAY-D-49DRYES-W1-1-020718	Water	02/07/18 13:17	02/08/18 09:10
280-106192-15	FAY-D-3430DANDE-W1-1-020718	Water	02/07/18 14:05	02/08/18 09:10
280-106192-16	FAY-D-3809HEART-W1-1-020718	Water	02/07/18 14:50	02/08/18 09:10
280-106192-17	FAY-D-3809HEART-W1-2-020718	Water	02/07/18 14:53	02/08/18 09:10
280-106192-18	FAY-D-FB-020718	Water	02/07/18 07:00	02/08/18 09:10
280-106192-19	FAY-D-3397FALLV-W1-1-020718	Water	02/07/18 16:06	02/08/18 09:10
280-106192-20	FAY-D-6849BUTLE-W1-1-020618	Water	02/06/18 15:00	02/08/18 09:10
280-106192-21	FAY-D-3624HEART-W1-1-020618	Water	02/06/18 11:01	02/08/18 09:10
280-106192-22	FAY-D-6670TABOR-W1-1-020718	Water	02/07/18 09:49	02/08/18 09:10
280-106192-23	FAY-D-6908GRHRT-W1-1-020718	Water	02/07/18 10:14	02/08/18 09:10
280-106192-24	FAY-D-6919JOHNS-W1-1-020718	Water	02/07/18 15:29	02/08/18 09:10
280-106192-25	FAY-D-6919JOHNS-W1-2-020718	Water	02/07/18 15:30	02/08/18 09:10
280-106192-26	FAY-D-6951JOHNS-W1-1-020718	Water	02/07/18 15:44	02/08/18 09:10
280-106192-27	FAY-D-7530TABOR-W1-1-020718	Water	02/07/18 16:11	02/08/18 09:10
280-106192-28	FAY-D-3615PNEBR-W1-1-020718	Water	02/07/18 17:09	02/08/18 09:10
280-106192-29	FAY-D-3615PNEBR-W1-2-020718	Water	02/07/18 17:14	02/08/18 09:10
280-106192-30	FAY-D-3615PNEBR-W1-1-020718D	Water	02/07/18 17:09	02/08/18 09:10

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106192-1

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.: 280-106192-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 405661

Lab Sample ID: LLCS 280-405485/3-A Client Sample ID:

Date Analyzed: 02/21/18 09:43 Lab File ID: hfpo718B21041.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.89	Baseline	meyera	02/21/18 14:14

Lab Sample ID: 280-106192-2 Client Sample ID: FAY-D-1206PURDI-W1-1-020718

Date Analyzed: 02/21/18 09:53 Lab File ID: hfpo718B21044.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.91	Assign Peak	meyera	02/21/18 14:15

Lab Sample ID: 280-106192-3 Client Sample ID: FAY-D-118RZIER-W1-1-020718

Date Analyzed: 02/21/18 09:56 Lab File ID: hfpo718B21045.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.91	Baseline	meyera	02/21/18 14:15

Lab Sample ID: 280-106192-12 Client Sample ID: FAY-D-3509TRERG-W1-1-020718

Date Analyzed: 02/21/18 10:28 Lab File ID: hfpo718B21055.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.91	Baseline	meyera	02/21/18 14:16

Lab Sample ID: 280-106192-13 Client Sample ID: FAY-D-3509TRERG-W1-2-020718

Date Analyzed: 02/21/18 10:32 Lab File ID: hfpo718B21056.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.91	Baseline	meyera	02/21/18 14:16

8321A

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Instrument ID: LC_LCMS7 Analysis Batch Number: 405707

Lab Sample ID: 280-106192-14 Client Sample ID: FAY-D-49DRYES-W1-1-020718

Date Analyzed: 02/21/18 14:33 Lab File ID: hfpo718B21130.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.89	Baseline	meyera	02/21/18 15:40

Lab Sample ID: 280-106192-25 Client Sample ID: FAY-D-6919JOHNS-W1-2-020718

Date Analyzed: 02/21/18 15:06 Lab File ID: hfpo718B21140.d GC Column: Synergi Hydro ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
HFPO-DA	0.89	Baseline	meyera	02/21/18 15:43

8321A

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
HFPO I.S._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
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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106192-1

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
							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-5_00081	02/22/18	02/20/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00009	20 uL	13C3 HFPO-DA	10 ug/L
					HFPO Spike_00004	10 uL	HFPO-DA	5 ug/L
.HFPO I.S._00009	02/20/19	02/20/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00009	1 mL	13C3 HFPO-DA	0.5 ug/mL
..13C3 HFPO-DA_00009	02/20/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C3 HFPO-DA (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_00081	02/22/18	02/20/18	80:20 Methanol : H2O, Lot 00016	1 mL	HFPO I.S._00009	20 uL	13C3 HFPO-DA	10 ug/L
					HFPO Spike_00004	20 uL	HFPO-DA	10 ug/L
.HFPO I.S._00009	02/20/19	02/20/18	LCMS Grade MeOH, Lot LCMS_MeOH_00110	100 mL	13C3 HFPO-DA_00009	1 mL	13C3 HFPO-DA	0.5 ug/mL
..13C3 HFPO-DA_00009	02/20/19	Wellington Laboratories, Lot M3HFPOADA0817			(Purchased Reagent)		13C3 HFPO-DA	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-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

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.HFPO I.S._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
..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_00008

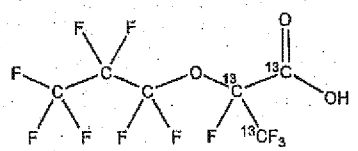
WELLINGTON LABORATORIES

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



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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$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

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QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17025 ISO 34 REFERENCE MATERIAL PRODUCER

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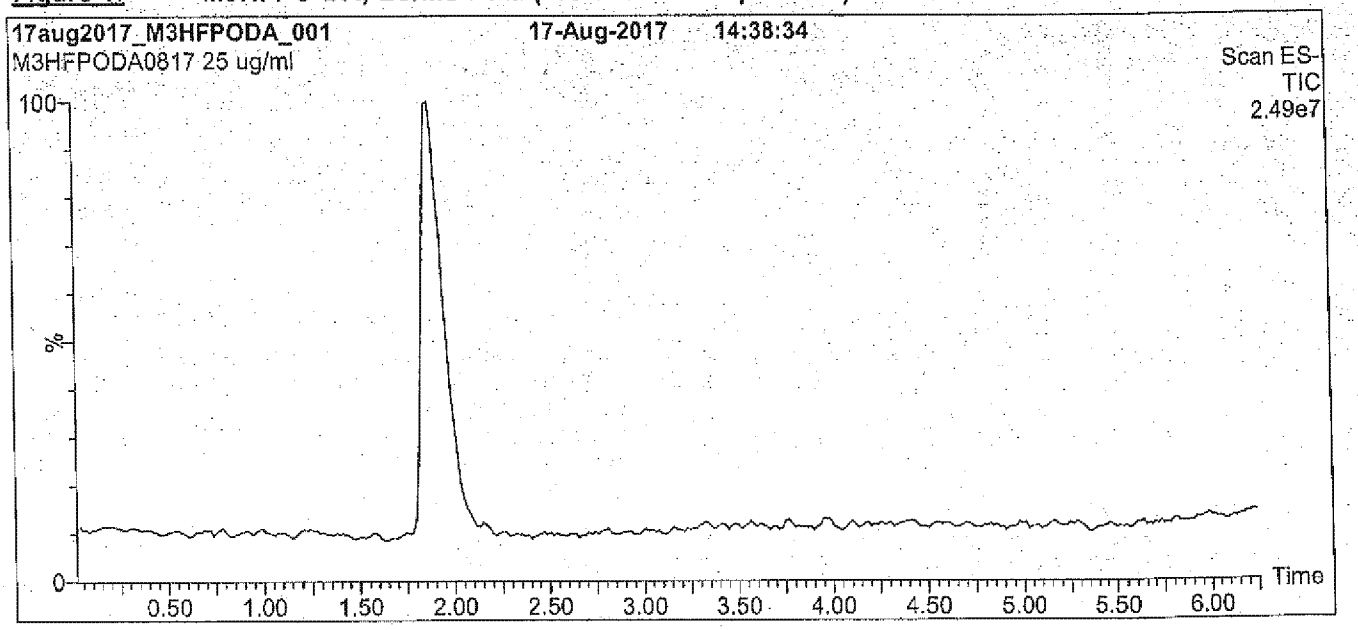
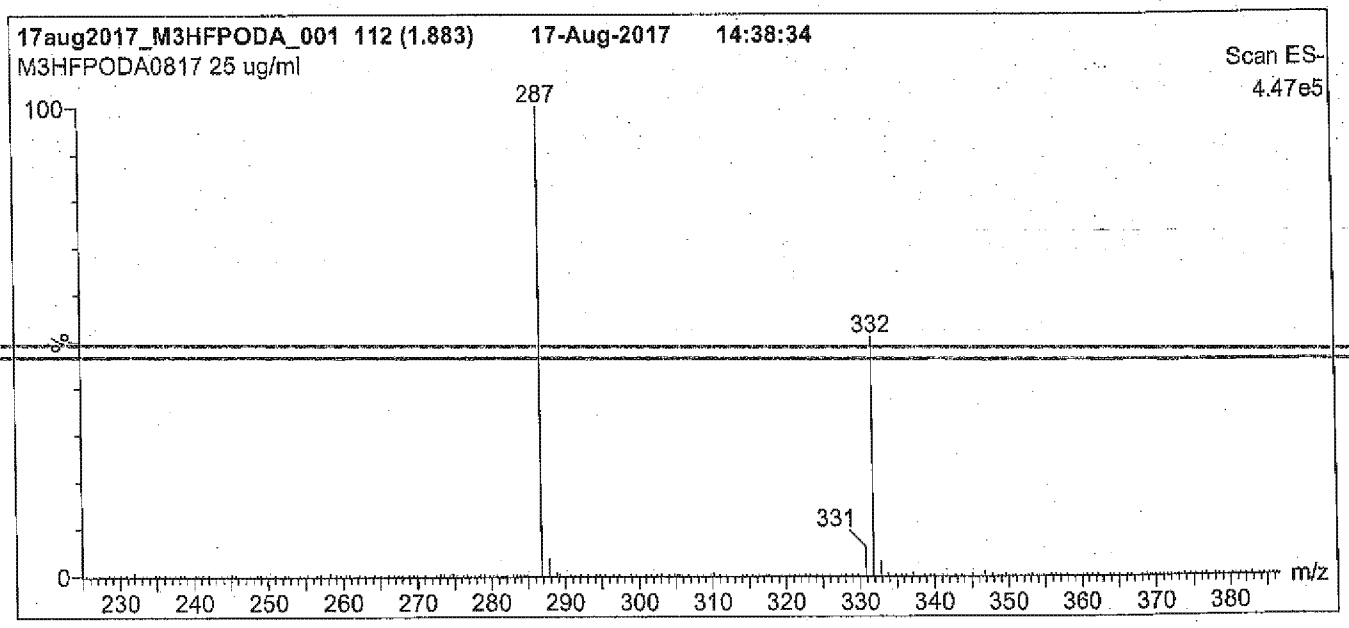
Figure 1: **M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**





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

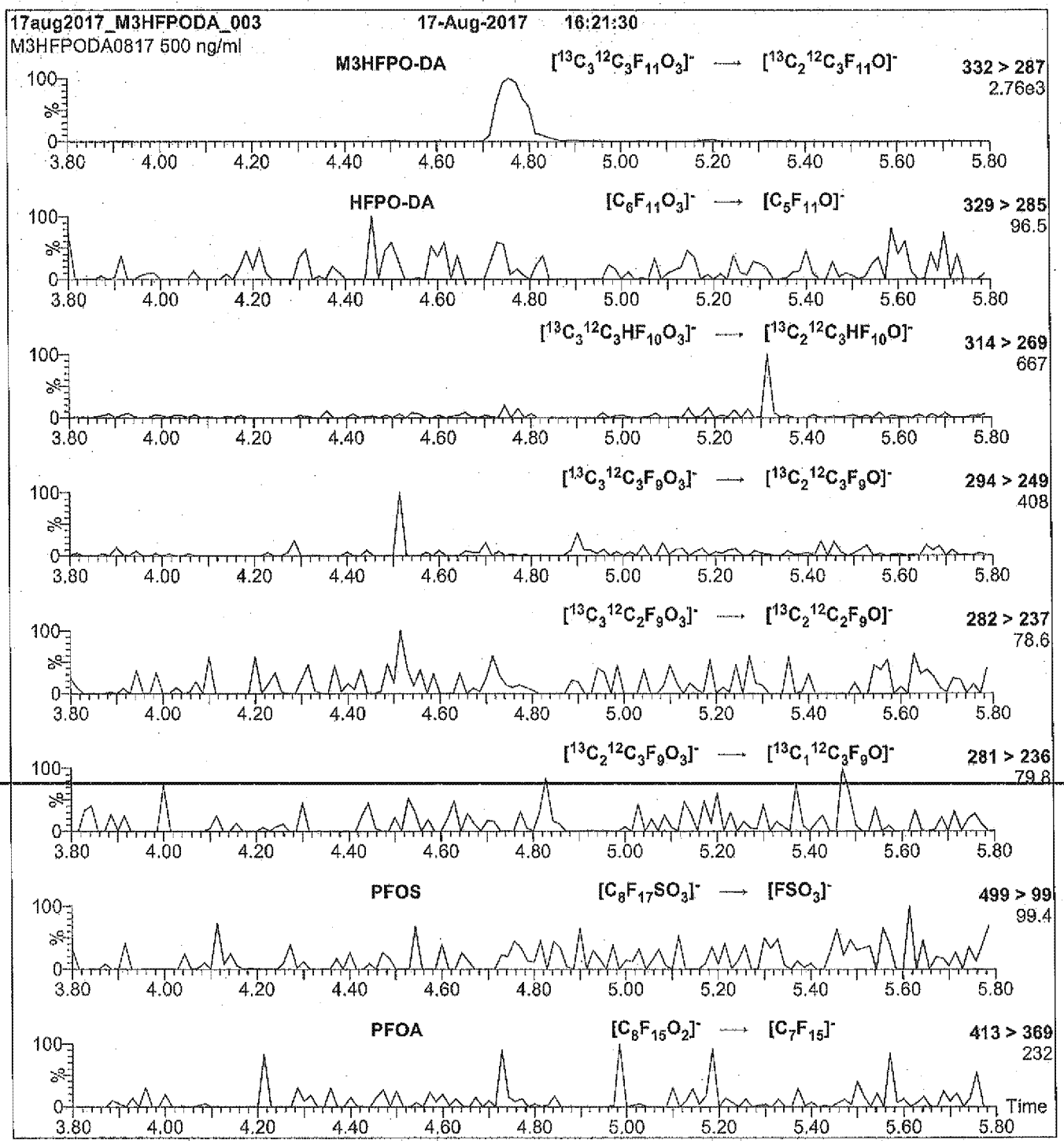
Flow: 300 µl/min

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_00009

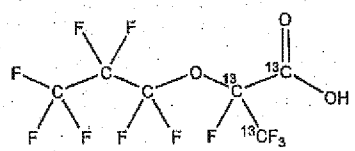
WELLINGTON LABORATORIES

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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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		

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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.

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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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CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER

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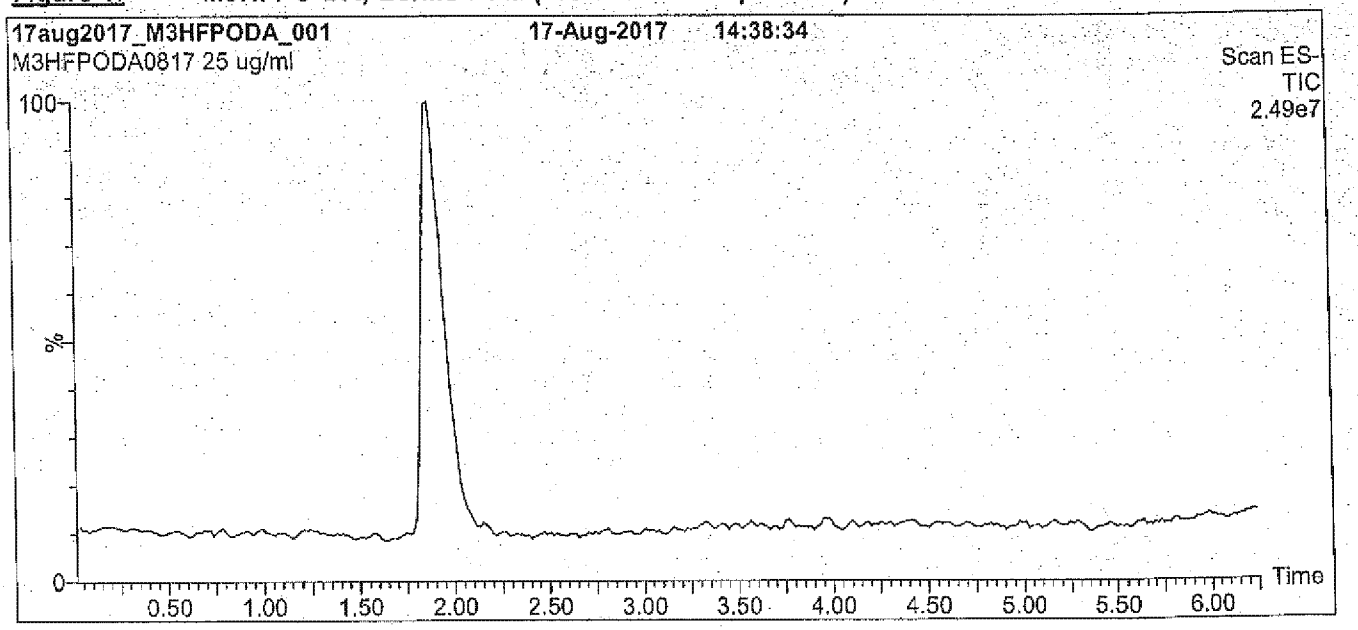
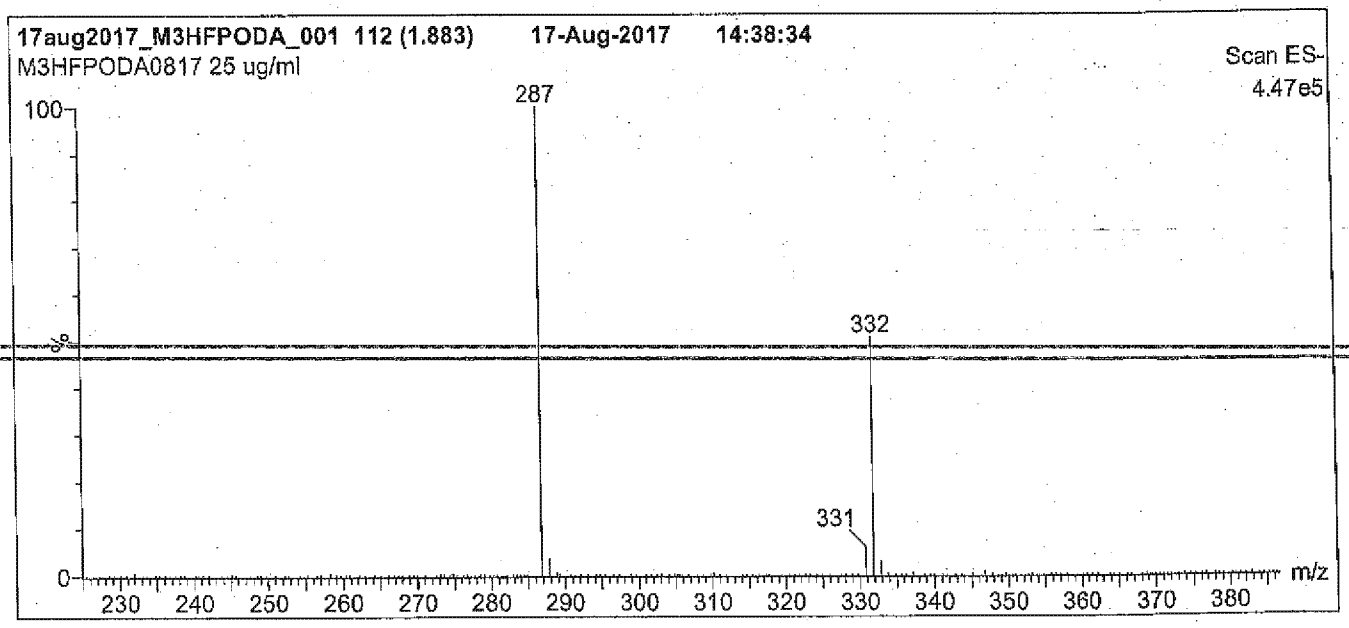
Figure 1: **M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**





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

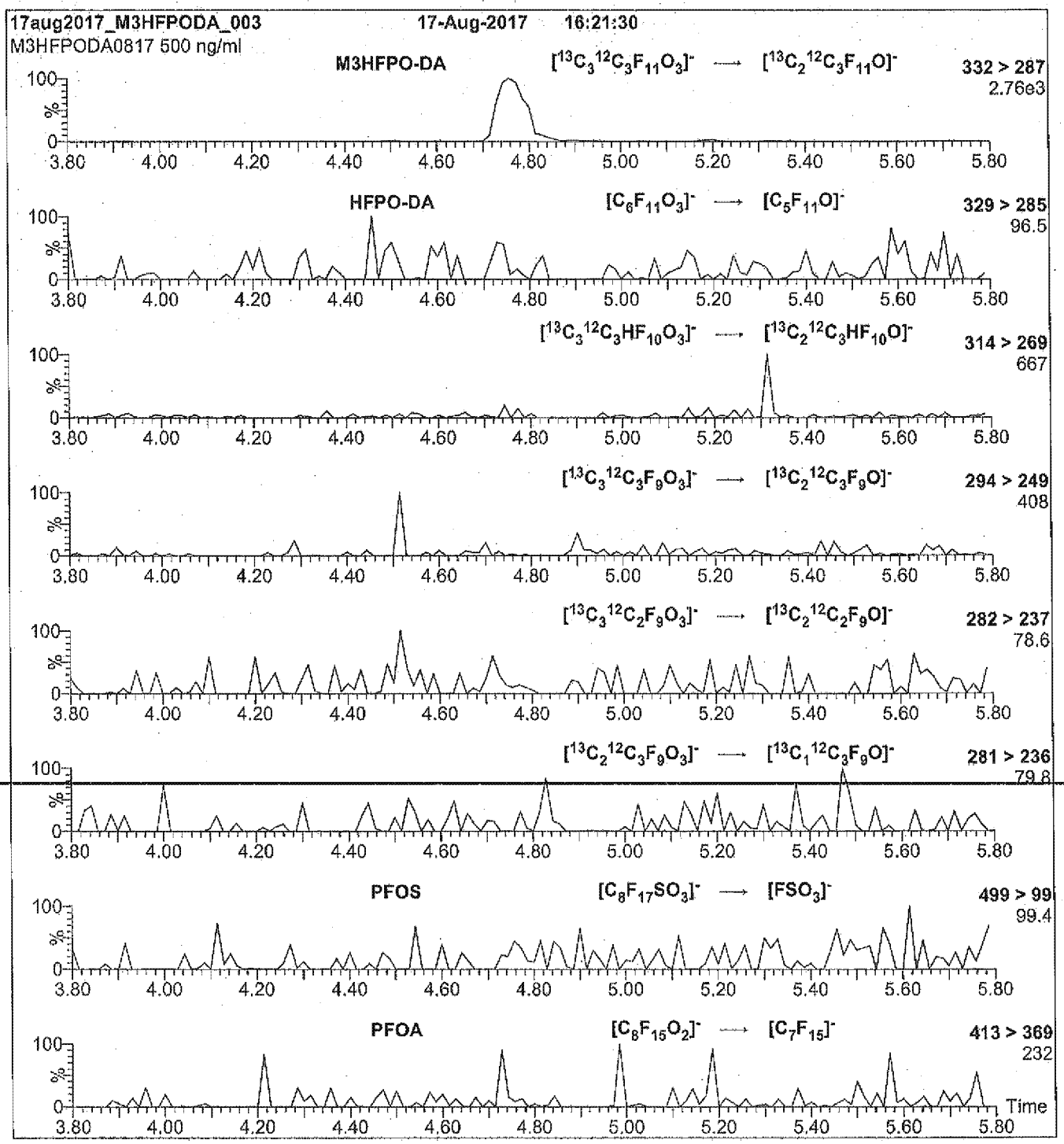
Flow: 300 µl/min

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-DA_00004

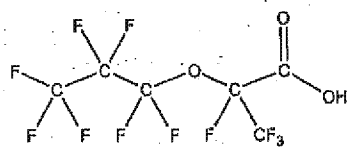
WELLINGTON LABORATORIES

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.
- Product is commercially known as GenX.

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Certified By: _____ **Date:** 07/14/2017 (mm/dd/yyyy)
B.G. Chittim, General Manager

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At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

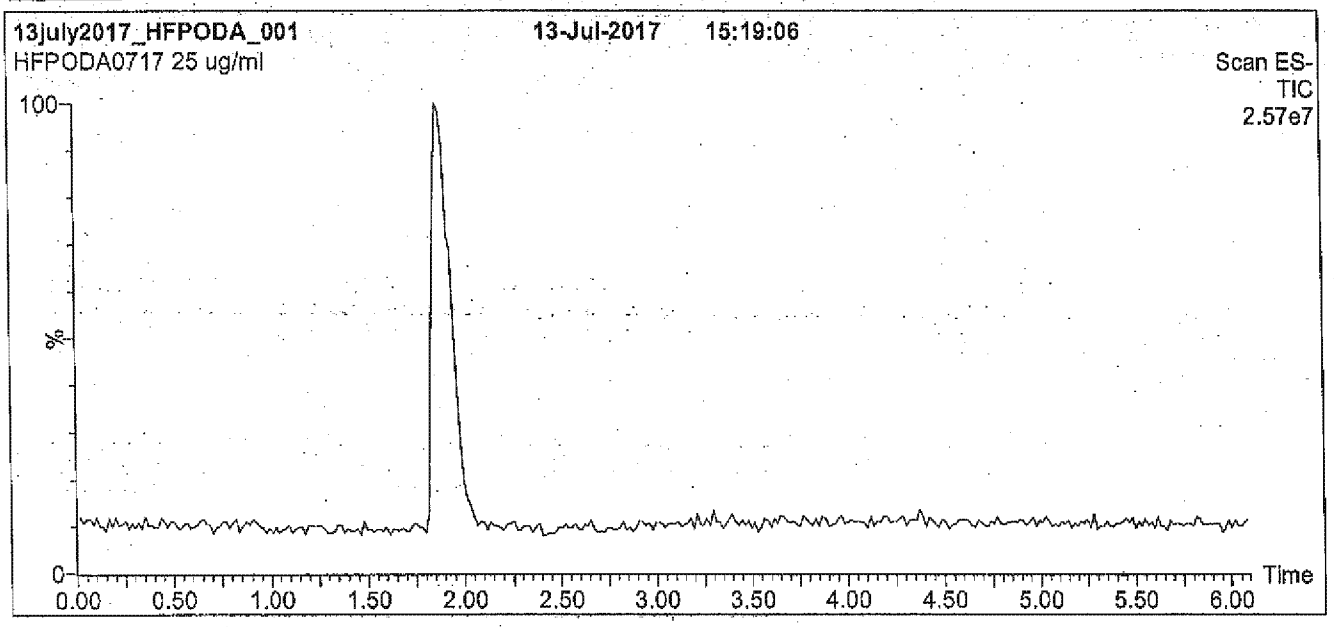
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

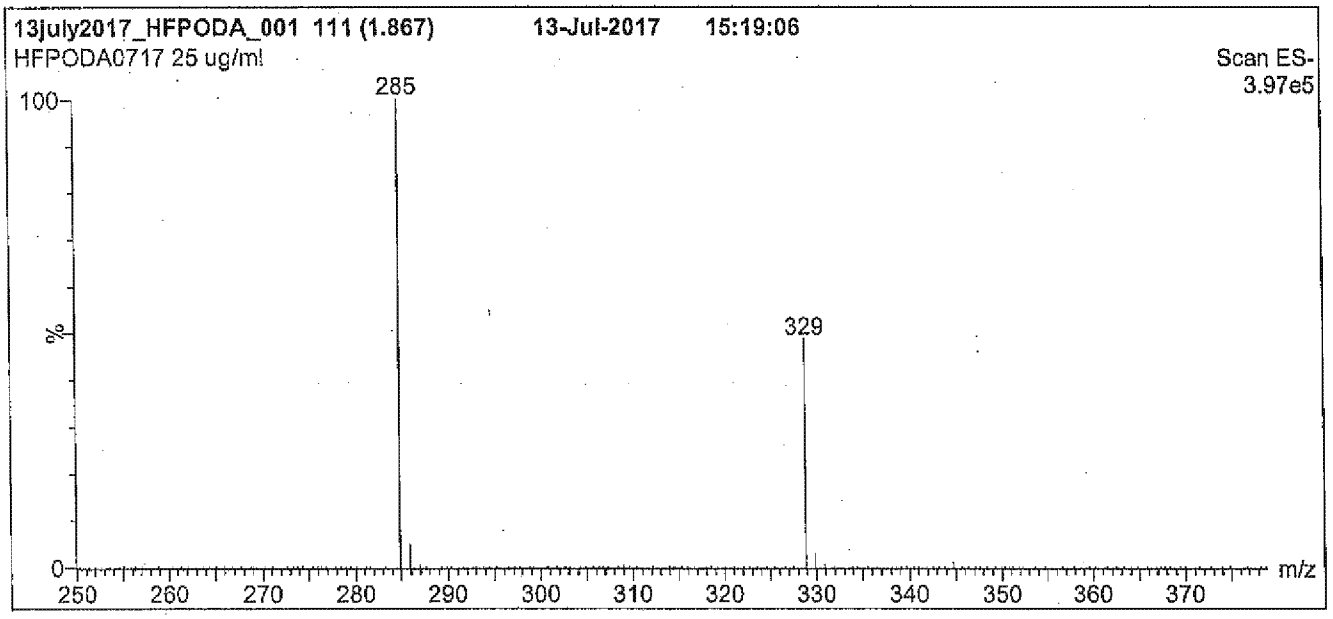
CALA Testing Accreditation No. A1226

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

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

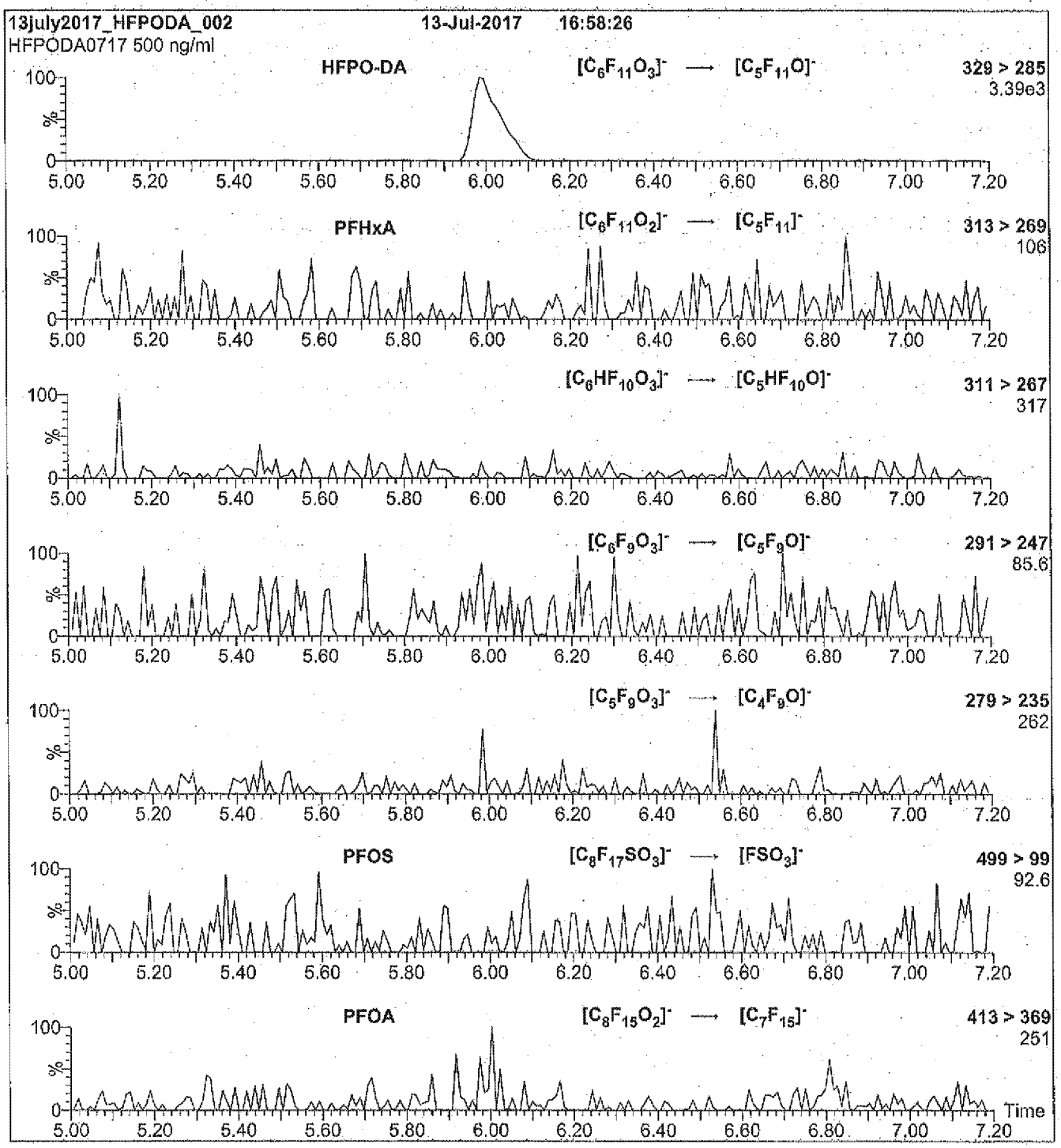
Flow: 300 µl/min

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.: 280-106192-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
FAY-D-26COGDC-W1-1-020718	280-106192-1	84
FAY-D-1206PURDI-W1-1-020718	280-106192-2	83
FAY-D-118RZIER-W1-1-020718	280-106192-3	83
FAY-D-18SNTEL-W1-1-020718	280-106192-4	86
FAY-D-188RZIER-W1-1-020718	280-106192-5	87
FAY-D-5343MRSHR-W1-1-020718	280-106192-6	82
FAY-D-5431MRSHR-W1-1-020718	280-106192-7	75
FAY-D-5668MRSHR-W1-1-020718	280-106192-8	81
FAY-D-4115HORSE-W1-1-020718	280-106192-9	83
FAY-D-3671HEART-W1-1-020618	280-106192-10	88
FAY-D-5770DRGFL-W1-1-020718	280-106192-11	82
FAY-D-3509TRERG-W1-1-020718	280-106192-12	89
FAY-D-3509TRERG-W1-2-020718	280-106192-13	86
FAY-D-49DRYES-W1-1-020718	280-106192-14	107
FAY-D-3430DANDE-W1-1-020718	280-106192-15	84
FAY-D-3809HEART-W1-1-020718	280-106192-16	91
FAY-D-3809HEART-W1-2-020718	280-106192-17	86
FAY-D-FB-020718	280-106192-18	90
FAY-D-3397FALLV-W1-1-020718	280-106192-19	88
FAY-D-6849BUTLE-W1-1-020618	280-106192-20	83
FAY-D-3624HEART-W1-1-020618	280-106192-21	88
FAY-D-6670TABOR-W1-1-020718	280-106192-22	88
FAY-D-6908GRHRT-W1-1-020718	280-106192-23	111
FAY-D-6919JOHNS-W1-1-020718	280-106192-24	90
FAY-D-6919JOHNS-W1-2-020718	280-106192-25	91

HFPODA = 13C3 HFPO-DA

QC LIMITS
50-200

Column to be used to flag recovery values

FORM II 8321A

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Synergi Hyd ID:

Client Sample ID	Lab Sample ID	HFPODA #
FAY-D-6951JOHNS-W1 -1-020718	280-106192-26	110
FAY-D-7530TABOR-W1 -1-020718	280-106192-27	88
FAY-D-3615PNEBR-W1 -1-020718	280-106192-28	91
FAY-D-3615PNEBR-W1 -2-020718	280-106192-29	94
FAY-D-3615PNEBR-W1 -1-020718D	280-106192-30	109
	MB 280-405485/1-A	83
	MB 280-405589/1-A	91
	LCS 280-405485/2-A	85
	LCS 280-405589/2-A	94
	LCSD 280-405485/4-A	90
	LCSD 280-405589/3-A	89
	LLCS 280-405485/3-A	89
	LLCS 280-405589/4-A	91
FAY-D-3615PNEBR-W1 -1-020718 MS	280-106192-28 MS	93
FAY-D-3615PNEBR-W1 -1-020718 DU	280-106192-28 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.: 280-106192-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B21040.d

Lab ID: LCS 280-405485/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.202	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.: 280-106192-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B21122.d

Lab ID: LCS 280-405589/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
HFPO-DA	0.200	0.212	106	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.: 280-106192-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B21042.d

Lab ID: LCSD 280-405485/4-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	0.189	95	6	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.: 280-106192-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B21123.d

Lab ID: LCSD 280-405589/3-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	0.204	102	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.: 280-106192-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B21041.d

Lab ID: LLCS 280-405485/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0190	95	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.: 280-106192-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B21124.d

Lab ID: LLCS 280-405589/4-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LLCS CONCENTRATION (ug/L)	LLCS % REC	QC LIMITS REC	#
HFPO-DA	0.0200	0.0166	83	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.: 280-106192-1

SDG No.:

Matrix: Water Level: Low Lab File ID: hfpo718B21146.d

Lab ID: 280-106192-28 MS Client ID: FAY-D-3615PNEBR-W1-1-020718 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
HFPO-DA	0.177	<0.010	0.205	116	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.: 280-106192-1

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.: 280-106192-1

SDG No.:

Lab File ID: hfpo718B21039.d Lab Sample ID: MB 280-405485/1-A

Matrix: Water Date Extracted: 02/20/2018 10:22

Instrument ID: LC_LCMS7 Date Analyzed: 02/21/2018 09:36

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-405485/2-A	hfpo718B21040.d	02/21/2018 09:39
	LLCS 280-405485/3-A	hfpo718B21041.d	02/21/2018 09:43
	LCSD 280-405485/4-A	hfpo718B21042.d	02/21/2018 09:46
FAY-D-26COGDC-W1-1-020718	280-106192-1	hfpo718B21043.d	02/21/2018 09:49
FAY-D-1206PURDI-W1-1-020718	280-106192-2	hfpo718B21044.d	02/21/2018 09:53
FAY-D-118RZIER-W1-1-020718	280-106192-3	hfpo718B21045.d	02/21/2018 09:56
FAY-D-18SNTEL-W1-1-020718	280-106192-4	hfpo718B21046.d	02/21/2018 09:59
FAY-D-188RZIER-W1-1-020718	280-106192-5	hfpo718B21047.d	02/21/2018 10:02
FAY-D-5343MRSHR-W1-1-020718	280-106192-6	hfpo718B21048.d	02/21/2018 10:06
FAY-D-5431MRSHR-W1-1-020718	280-106192-7	hfpo718B21050.d	02/21/2018 10:12
FAY-D-5668MRSHR-W1-1-020718	280-106192-8	hfpo718B21051.d	02/21/2018 10:15
FAY-D-4115HORSE-W1-1-020718	280-106192-9	hfpo718B21052.d	02/21/2018 10:19
FAY-D-3671HEART-W1-1-020618	280-106192-10	hfpo718B21053.d	02/21/2018 10:22
FAY-D-5770DRGFL-W1-1-020718	280-106192-11	hfpo718B21054.d	02/21/2018 10:25
FAY-D-3509TRERG-W1-1-020718	280-106192-12	hfpo718B21055.d	02/21/2018 10:28
FAY-D-3509TRERG-W1-2-020718	280-106192-13	hfpo718B21056.d	02/21/2018 10:32
FAY-D-6849BUTLE-W1-1-020618	280-106192-20	hfpo718B21057.d	02/21/2018 10:35
FAY-D-3624HEART-W1-1-020618	280-106192-21	hfpo718B21058.d	02/21/2018 10:38

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Lab File ID: hfpo718B21121.d Lab Sample ID: MB 280-405589/1-A

Matrix: Water Date Extracted: 02/20/2018 21:07

Instrument ID: LC_LCMS7 Date Analyzed: 02/21/2018 14:04

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-405589/2-A	hfpo718B21122.d	02/21/2018 14:07
	LCSD 280-405589/3-A	hfpo718B21123.d	02/21/2018 14:10
	LLCS 280-405589/4-A	hfpo718B21124.d	02/21/2018 14:13
FAY-D-49DRYES-W1-1-020718	280-106192-14	hfpo718B21130.d	02/21/2018 14:33
FAY-D-3430DANDE-W1-1-020718	280-106192-15	hfpo718B21132.d	02/21/2018 14:39
FAY-D-3809HEART-W1-1-020718	280-106192-16	hfpo718B21133.d	02/21/2018 14:43
FAY-D-3809HEART-W1-2-020718	280-106192-17	hfpo718B21134.d	02/21/2018 14:46
FAY-D-FB-020718	280-106192-18	hfpo718B21135.d	02/21/2018 14:49
FAY-D-3397FALLV-W1-1-020718	280-106192-19	hfpo718B21136.d	02/21/2018 14:53
FAY-D-6670TABOR-W1-1-020718	280-106192-22	hfpo718B21137.d	02/21/2018 14:56
FAY-D-6908GRHRT-W1-1-020718	280-106192-23	hfpo718B21138.d	02/21/2018 14:59
FAY-D-6919JOHNS-W1-1-020718	280-106192-24	hfpo718B21139.d	02/21/2018 15:03
FAY-D-6919JOHNS-W1-2-020718	280-106192-25	hfpo718B21140.d	02/21/2018 15:06
FAY-D-6951JOHNS-W1-1-020718	280-106192-26	hfpo718B21141.d	02/21/2018 15:09
FAY-D-7530TABOR-W1-1-020718	280-106192-27	hfpo718B21143.d	02/21/2018 15:16
FAY-D-3615PNEBR-W1-1-020718	280-106192-28	hfpo718B21144.d	02/21/2018 15:19
FAY-D-3615PNEBR-W1-1-020718 DU	280-106192-28 DU	hfpo718B21145.d	02/21/2018 15:22
FAY-D-3615PNEBR-W1-1-020718 MS	280-106192-28 MS	hfpo718B21146.d	02/21/2018 15:25
FAY-D-3615PNEBR-W1-2-020718	280-106192-29	hfpo718B21147.d	02/21/2018 15:29
FAY-D-3615PNEBR-W1-1-020718D	280-106192-30	hfpo718B21148.d	02/21/2018 15:32

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-26COGDC-W1-1-020718
Lab Sample ID: 280-106192-1
Matrix: Water
Lab File ID: hfpo718B21043.d
Analysis Method: 8321A
Date Collected: 02/07/2018 08:58
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 297.7(mL)
Date Analyzed: 02/21/2018 09:49
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.: 405661
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.091		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	84		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21043.d
Lims ID: 280-106192-A-1-A
Client ID: FAY-D-26COGDC-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 09:49:51 ALS Bottle#: 47 Worklist Smp#: 43
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-1-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:52

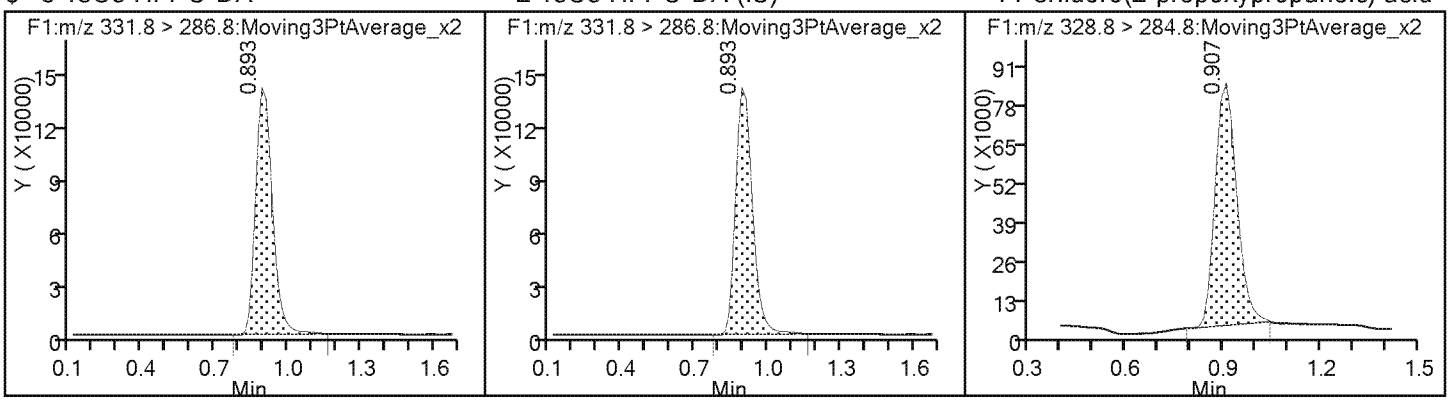
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	627685	8.41	1235	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		627685	10.0	1235	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	363770	5.41	42.2	

Report Date: 21-Feb-2018 14:18:58 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21043.d				
Injection Date:	21-Feb-2018 09:49:51	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-1-A	Lab Sample ID:	280-106192-1		
Client ID:	FAY-D-26COGDC-W1-1-020718				
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



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21043.d
Lims ID: 280-106192-A-1-A
Client ID: FAY-D-26COGDC-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 09:49:51 ALS Bottle#: 47 Worklist Smp#: 43
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-1-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.41	84.07

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-1206PURDI-W1-1-020718
Lab Sample ID: 280-106192-2
Matrix: Water
Lab File ID: hfpo718B21044.d
Analysis Method: 8321A
Date Collected: 02/07/2018 13:37
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 300.5(mL)
Date Analyzed: 02/21/2018 09:53
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.: 405661
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	83		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21044.d
Lims ID: 280-106192-A-2-A
Client ID: FAY-D-1206PURDI-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 09:53:08 ALS Bottle#: 48 Worklist Smp#: 44
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-2-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	618574	8.29	1250	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		618574	10.0	1250	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.907	1.056	-0.149	1.000	33709	0.4783	3.0	M

QC Flag Legend

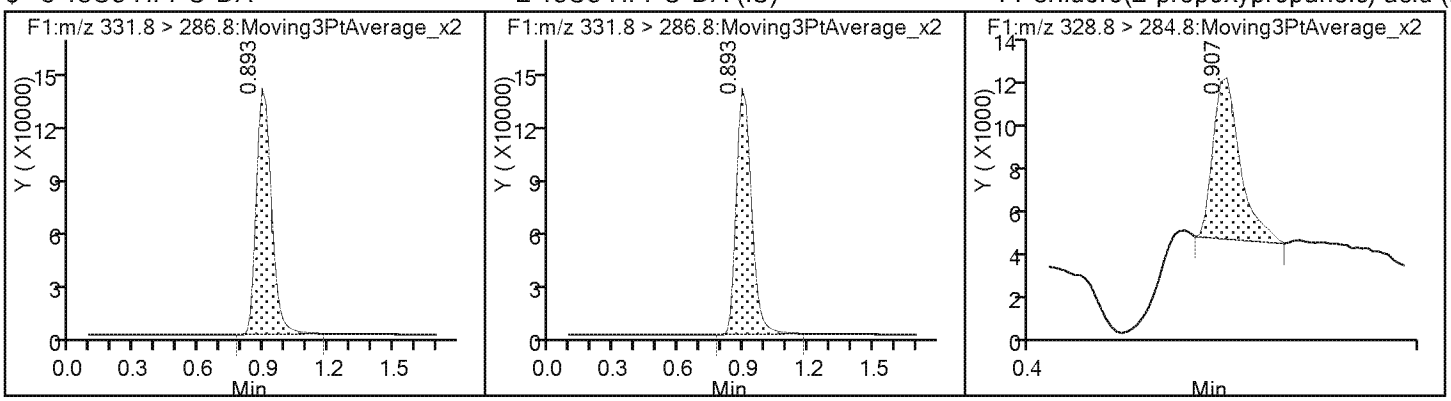
Review Flags
M - Manually Integrated

Report Date: 21-Feb-2018 14:19:00 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21044.d				
Injection Date:	21-Feb-2018 09:53:08	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-2-A	Lab Sample ID:	280-106192-2		
Client ID:	FAY-D-1206PURDI-W1-1-020718				
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 (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21044.d
Lims ID: 280-106192-A-2-A
Client ID: FAY-D-1206PURDI-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 09:53:08 ALS Bottle#: 48 Worklist Smp#: 44
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-2-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.29	82.85

Manual Integration/User Assign Peak Report

TestAmerica Denver

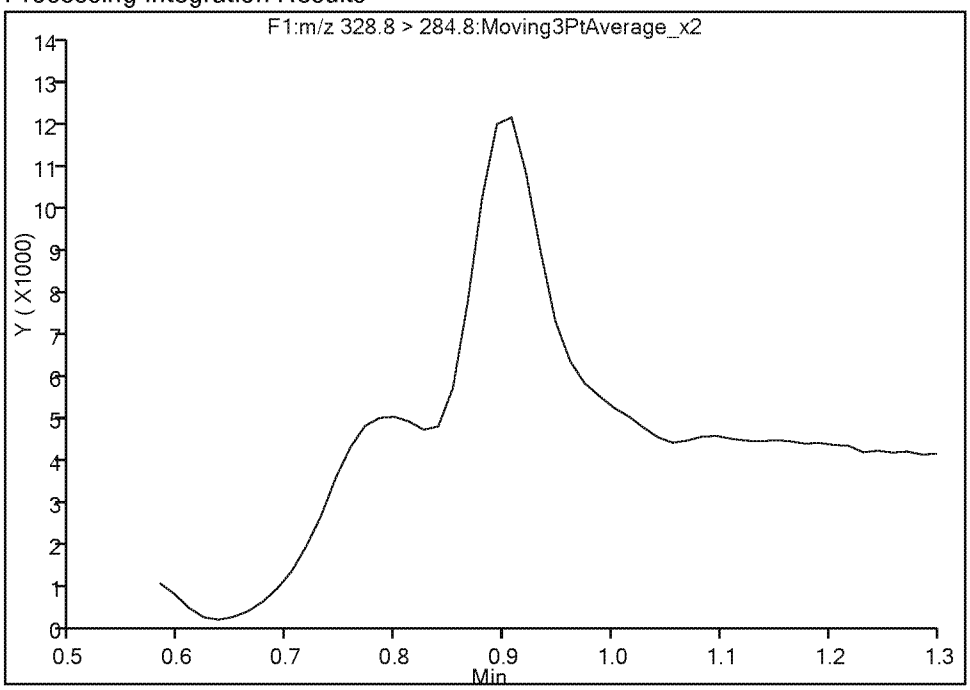
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21044.d				
Injection Date:	21-Feb-2018 09:53:08	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-2-A	Lab Sample ID:	280-106192-2		
Client ID:	FAY-D-1206PURDI-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	48	Worklist Smp#:	44
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

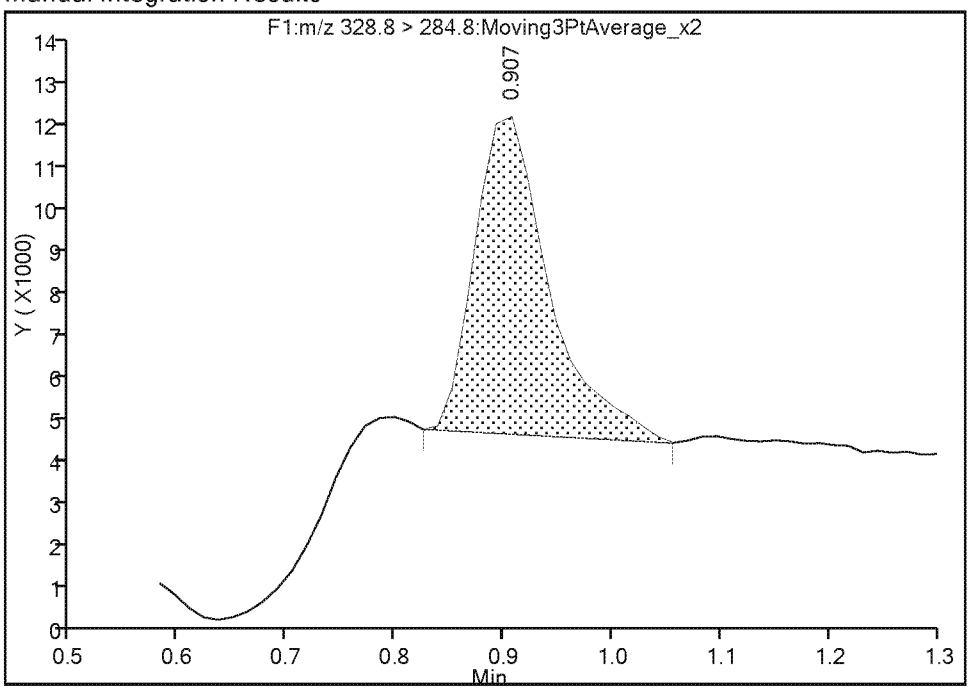
Processing Integration Results

Not Detected
Expected RT: 1.06



Manual Integration Results

RT: 0.91
Area: 33709
Amount: 0.478302
Amount Units: ug/l



Reviewer: meyera, 21-Feb-2018 14:15:00
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-118RZIER-W1-1-020718
Lab Sample ID: 280-106192-3
Matrix: Water
Lab File ID: hfpo718B21045.d
Analysis Method: 8321A
Date Collected: 02/07/2018 14:05
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 303.6(mL)
Date Analyzed: 02/21/2018 09:56
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.: 405661
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.023		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\20180221-67419.b\hfpo718B21045.d
Lims ID: 280-106192-D-3-A
Client ID: FAY-D-118RZIER-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 09:56:25 ALS Bottle#: 1 Worklist Smp#: 45
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-3-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:11

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	623338	8.35	1060	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		623338	10.0	1060	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.907	1.056	-0.149	1.000	94274	1.39	9.6	M

QC Flag Legend

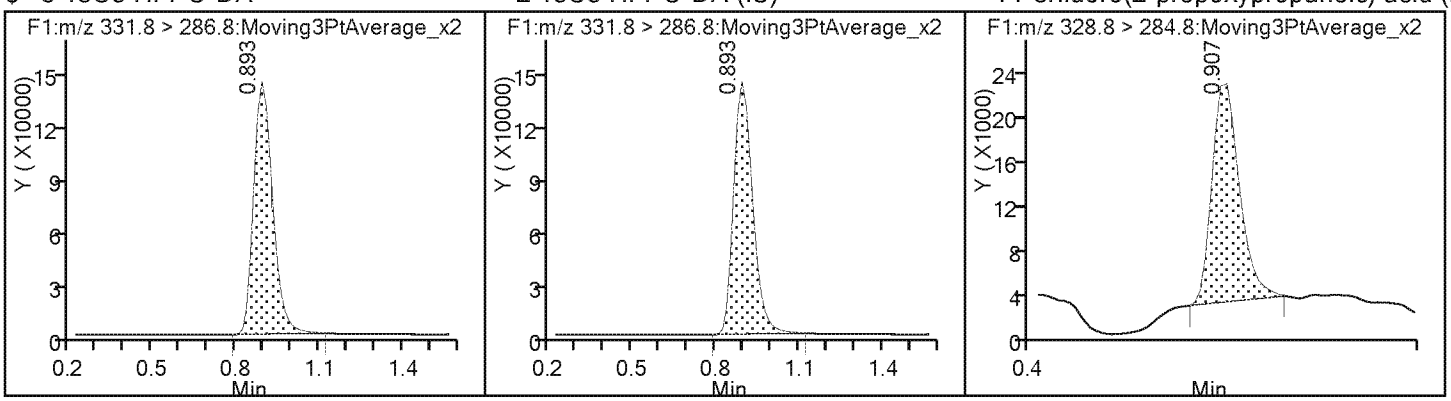
Review Flags
M - Manually Integrated

Report Date: 21-Feb-2018 14:19:01 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21045.d				
Injection Date:	21-Feb-2018 09:56:25	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-D-3-A	Lab Sample ID:	280-106192-3		
Client ID:	FAY-D-118RZIER-W1-1-020718				
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 (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21045.d
Lims ID: 280-106192-D-3-A
Client ID: FAY-D-118RZIER-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 09:56:25 ALS Bottle#: 1 Worklist Smp#: 45
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-3-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.35	83.49

Manual Integration/User Assign Peak Report

TestAmerica Denver

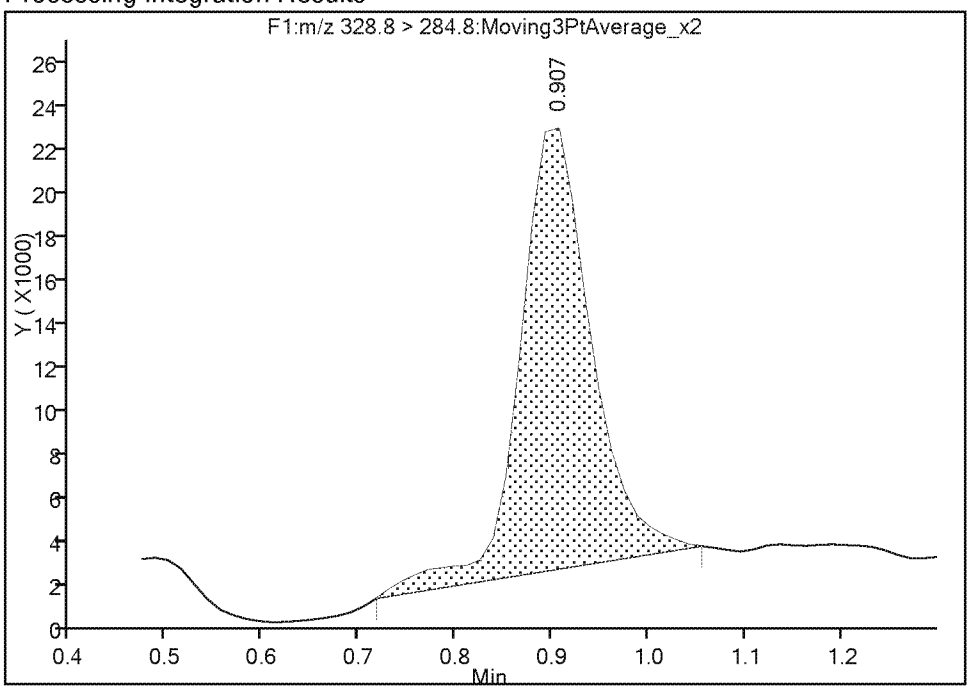
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21045.d				
Injection Date:	21-Feb-2018 09:56:25	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-D-3-A	Lab Sample ID:	280-106192-3		
Client ID:	FAY-D-118RZIER-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	1	Worklist Smp#:	45
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

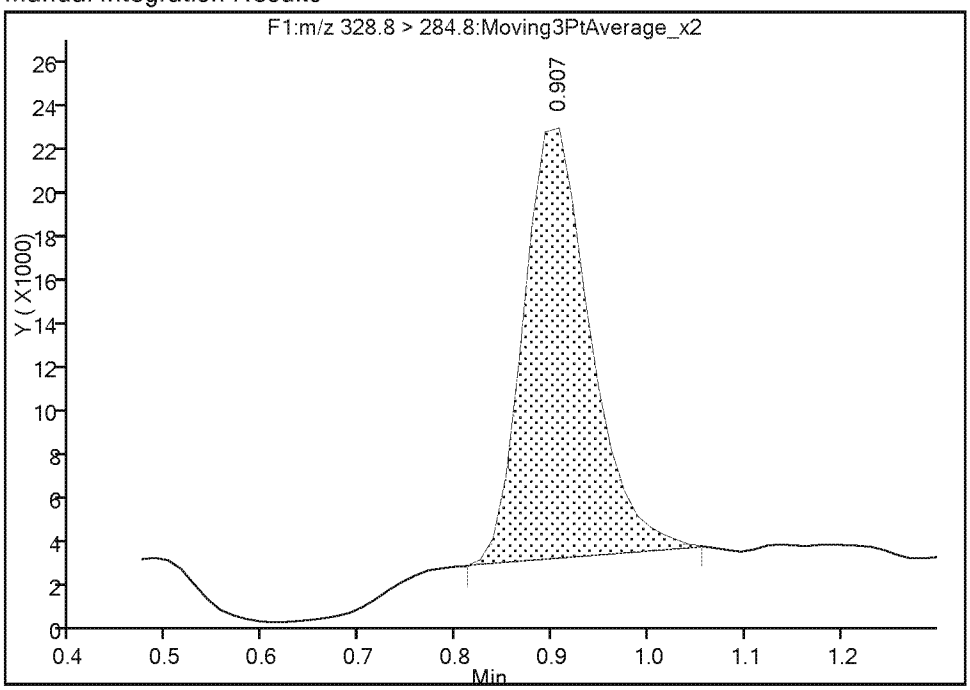
Processing Integration Results

RT: 0.91
Area: 104231
Amount: 1.537896
Amount Units: ug/l



Manual Integration Results

RT: 0.91
Area: 94274
Amount: 1.387739
Amount Units: ug/l



Reviewer: meyera, 21-Feb-2018 14:15:10

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106192-1

SDG No.:

Client Sample ID: FAY-D-18SNTEL-W1-1-020718 | Lab Sample ID: 280-106192-4

Matrix: Water | Lab File ID: hfpo718B21046.d

Analysis Method: 8321A | Date Collected: 02/07/2018 14:42

Extraction Method: 3535 | Date Extracted: 02/20/2018 10:22

Sample wt/vol: 307.2(mL) | Date Analyzed: 02/21/2018 09:59

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.: 405661 | 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	86		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21046.d
Lims ID: 280-106192-B-4-A
Client ID: FAY-D-18SNTEL-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 09:59:39 ALS Bottle#: 2 Worklist Smp#: 46
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-4-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:15

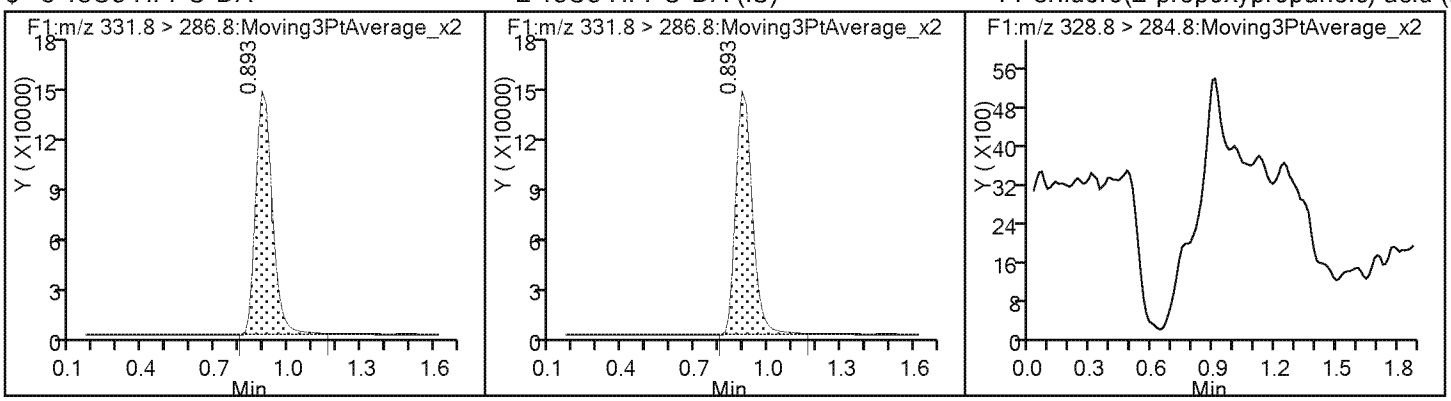
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	638987	8.56	1395	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		638987	10.0	1395	

Report Date: 21-Feb-2018 14:19:02 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21046.d				
Injection Date:	21-Feb-2018 09:59:39	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-B-4-A	Lab Sample ID:	280-106192-4		
Client ID:	FAY-D-18SNTEL-W1-1-020718				
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\20180221-67419.b\hfpo718B21046.d
Lims ID: 280-106192-B-4-A
Client ID: FAY-D-18SNTEL-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 09:59:39 ALS Bottle#: 2 Worklist Smp#: 46
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-4-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.56	85.59

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-188RZIER-W1-1-020718
Lab Sample ID: 280-106192-5
Matrix: Water
Lab File ID: hfpo718B21047.d
Analysis Method: 8321A
Date Collected: 02/07/2018 16:08
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 312.9(mL)
Date Analyzed: 02/21/2018 10:02
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.: 405661
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	87		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21047.d
Lims ID: 280-106192-D-5-A
Client ID: FAY-D-188RZIER-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:02:54 ALS Bottle#: 3 Worklist Smp#: 47
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-5-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:20

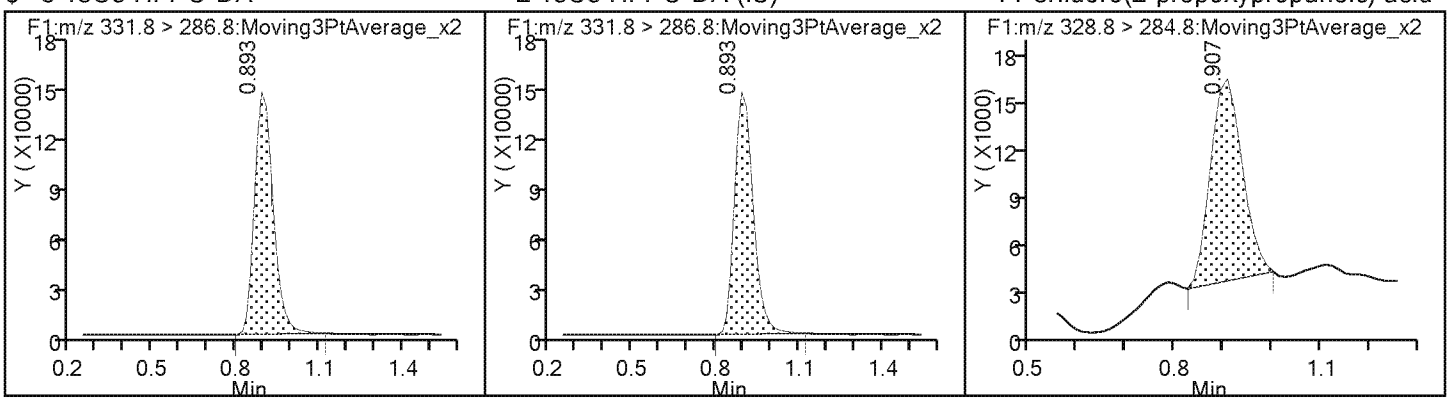
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	649230	8.70	1101	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		649230	10.0	1101	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	53835	0.7455	5.9	

Report Date: 21-Feb-2018 14:19:04 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21047.d				
Injection Date:	21-Feb-2018 10:02:54	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-D-5-A	Lab Sample ID:	280-106192-5		
Client ID:	FAY-D-188RZIER-W1-1-020718				
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



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21047.d
Lims ID: 280-106192-D-5-A
Client ID: FAY-D-188RZIER-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:02:54 ALS Bottle#: 3 Worklist Smp#: 47
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-5-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.70	86.96

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-5343MRSHR-W1-1-020718
Lab Sample ID: 280-106192-6
Matrix: Water
Lab File ID: hfpo718B21048.d
Analysis Method: 8321A
Date Collected: 02/07/2018 09:13
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 288.7(mL)
Date Analyzed: 02/21/2018 10:06
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.: 405661
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	82		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21048.d
Lims ID: 280-106192-D-6-A
Client ID: FAY-D-5343MRSHR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:06:08 ALS Bottle#: 4 Worklist Smp#: 48
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-6-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:38

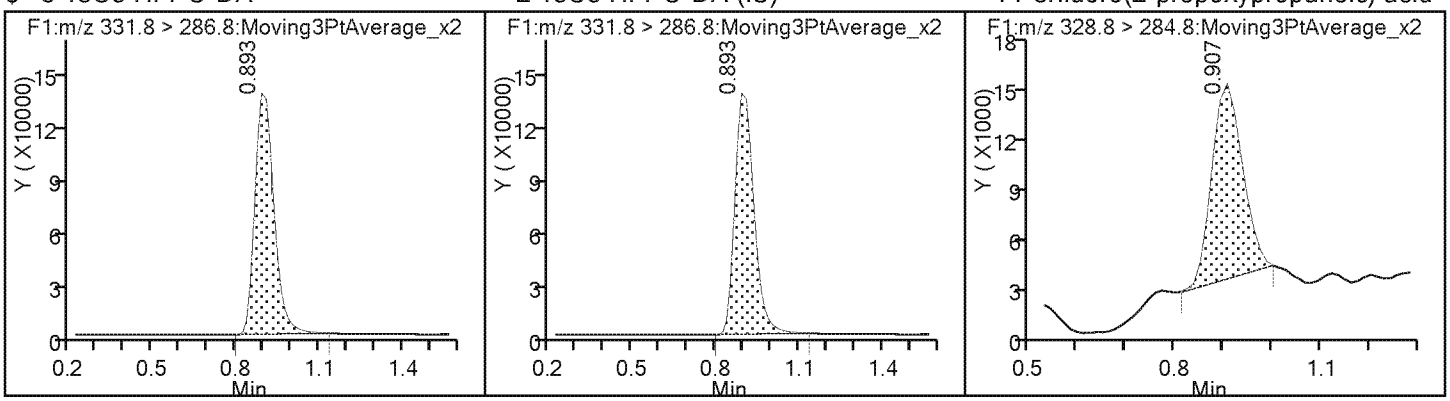
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	614869	8.24	1085	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		614869	10.0	1085	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	49402	0.7213	5.7	

Report Date: 21-Feb-2018 14:19:05 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21048.d				
Injection Date:	21-Feb-2018 10:06:08	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-D-6-A	Lab Sample ID:	280-106192-6		
Client ID:	FAY-D-5343MRSHR-W1-1-020718				
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\20180221-67419.b\hfpo718B21048.d
Lims ID: 280-106192-D-6-A
Client ID: FAY-D-5343MRSHR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:06:08 ALS Bottle#: 4 Worklist Smp#: 48
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-6-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:15:38

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.24	82.36

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-5431MRSHR-W1-1-020718
Lab Sample ID: 280-106192-7
Matrix: Water
Lab File ID: hfpo718B21050.d
Analysis Method: 8321A
Date Collected: 02/07/2018 09:31
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 272.6(mL)
Date Analyzed: 02/21/2018 10:12
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.: 405661
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.064		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	75		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21050.d
Lims ID: 280-106192-A-7-A
Client ID: FAY-D-5431MRSHR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:12:37 ALS Bottle#: 5 Worklist Smp#: 50
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-7-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:44

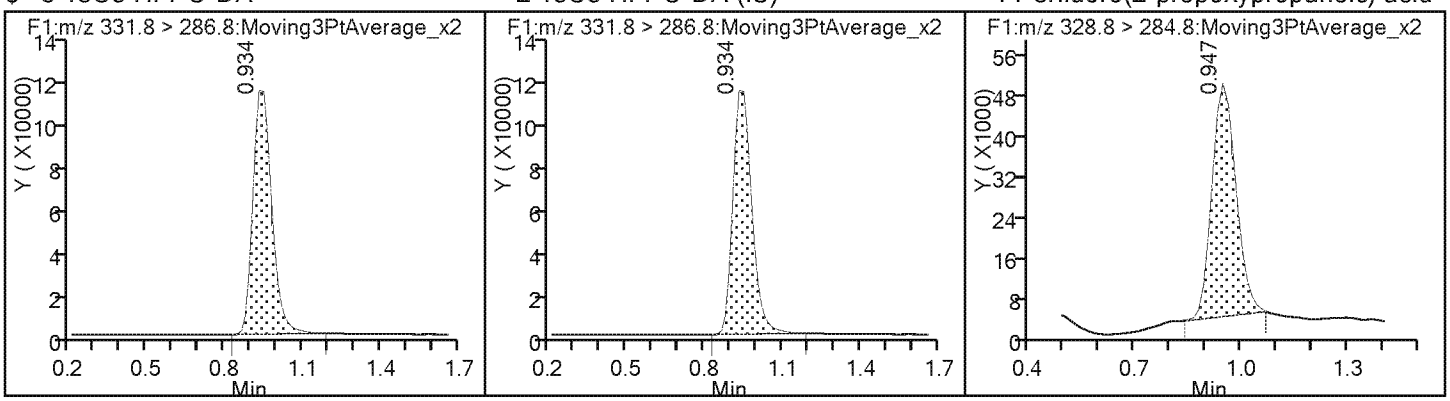
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.934	1.045	-0.111	1.000	556317	7.45	1008	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.934	1.045	-0.111		556317	10.0	1008	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.947	1.056	-0.109	1.000	208963	3.50	19.9	

Report Date: 21-Feb-2018 14:19:07 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21050.d				
Injection Date:	21-Feb-2018 10:12:37	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-7-A	Lab Sample ID:	280-106192-7		
Client ID:	FAY-D-5431MRSHR-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	5	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



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21050.d
Lims ID: 280-106192-A-7-A
Client ID: FAY-D-5431MRSHR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:12:37 ALS Bottle#: 5 Worklist Smp#: 50
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-7-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	7.45	74.51

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-5668MRSHR-W1-1-020718
Lab Sample ID: 280-106192-8
Matrix: Water
Lab File ID: hfpo718B21051.d
Analysis Method: 8321A
Date Collected: 02/07/2018 11:56
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 273.9(mL)
Date Analyzed: 02/21/2018 10:15
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.: 405661
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	81		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21051.d
Lims ID: 280-106192-A-8-A
Client ID: FAY-D-5668MRSHR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:15:51 ALS Bottle#: 6 Worklist Smp#: 51
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-8-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:48

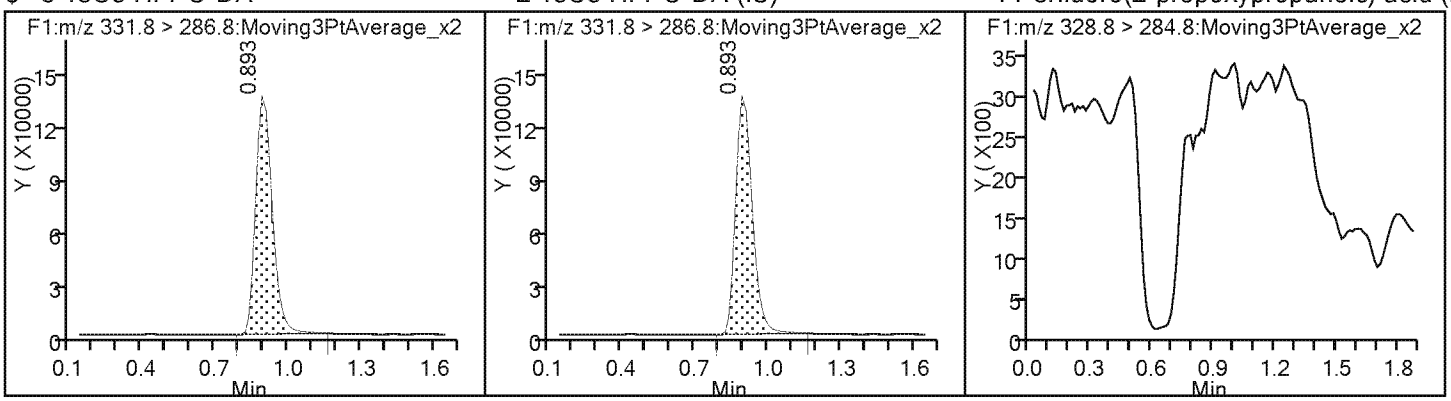
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	602103	8.06	1131	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		602103	10.0	1131	

Report Date: 21-Feb-2018 14:19:08 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21051.d				
Injection Date:	21-Feb-2018 10:15:51	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-8-A	Lab Sample ID:	280-106192-8		
Client ID:	FAY-D-5668MRSHR-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	6	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 (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21051.d
Lims ID: 280-106192-A-8-A
Client ID: FAY-D-5668MRSHR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:15:51 ALS Bottle#: 6 Worklist Smp#: 51
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-8-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.06	80.65

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-4115HORSE-W1-1-020718
Lab Sample ID: 280-106192-9
Matrix: Water
Lab File ID: hfpo718B21052.d
Analysis Method: 8321A
Date Collected: 02/07/2018 14:14
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 278.1(mL)
Date Analyzed: 02/21/2018 10:19
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.: 405661
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	83		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21052.d
Lims ID: 280-106192-D-9-A
Client ID: FAY-D-4115HORSE-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:19:05 ALS Bottle#: 7 Worklist Smp#: 52
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-9-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:51

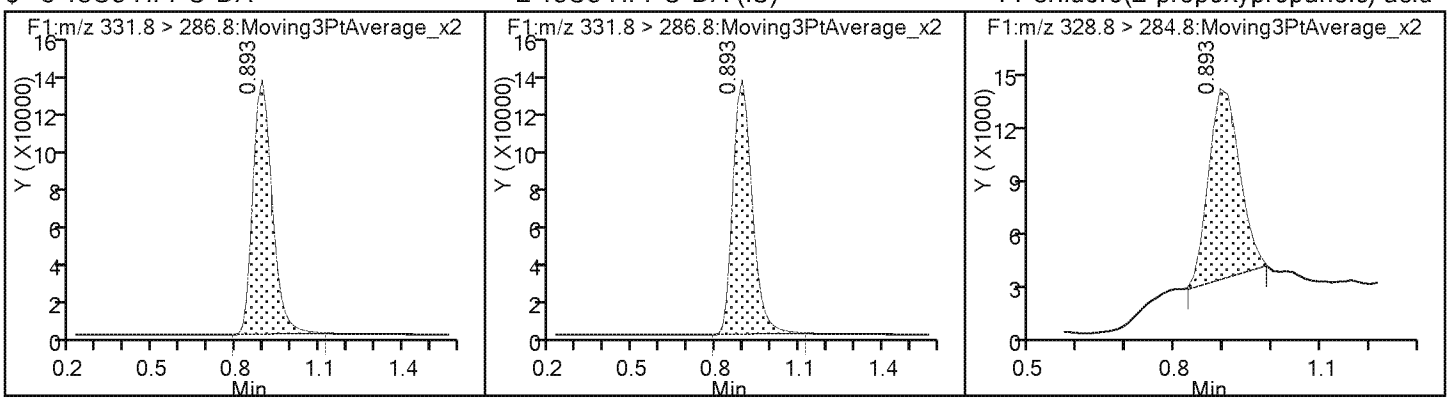
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	620797	8.32	1279	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		620797	10.0	1279	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	1.056	-0.163	1.000	46238	0.6662	5.4	

Report Date: 21-Feb-2018 14:19:09 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21052.d				
Injection Date:	21-Feb-2018 10:19:05	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-D-9-A	Lab Sample ID:	280-106192-9		
Client ID:	FAY-D-4115HORSE-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	7	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\20180221-67419.b\hfpo718B21052.d
Lims ID: 280-106192-D-9-A
Client ID: FAY-D-4115HORSE-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 10:19:05 ALS Bottle#: 7 Worklist Smp#: 52
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-9-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.32	83.15

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3671HEART-W1-1-020618
Lab Sample ID: 280-106192-10
Matrix: Water
Lab File ID: hfpo718B21053.d
Analysis Method: 8321A
Date Collected: 02/06/2018 10:08
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 280.3(mL)
Date Analyzed: 02/21/2018 10:22
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.: 405661
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	88		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21053.d
Lims ID: 280-106192-A-10-A
Client ID: FAY-D-3671HEART-W1-1-020617
Sample Type: Client
Inject. Date: 21-Feb-2018 10:22:20 ALS Bottle#: 8 Worklist Smp#: 53
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-10-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:55

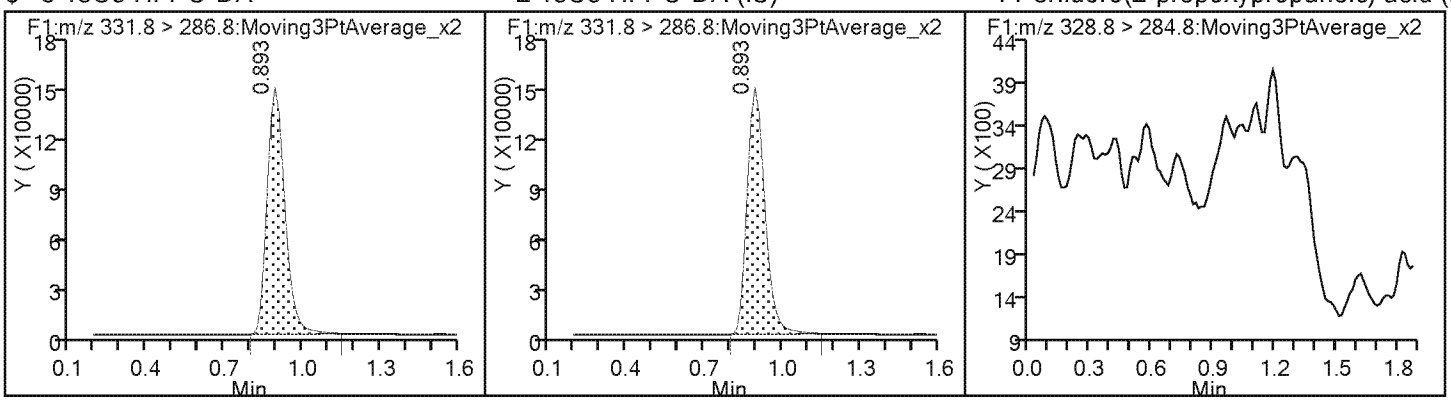
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	653716	8.76	1484	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		653716	10.0	1484	

Report Date: 21-Feb-2018 14:19:11 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21053.d				
Injection Date:	21-Feb-2018 10:22:20	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-10-A	Lab Sample ID:	280-106192-10		
Client ID:	FAY-D-3671HEART-W1-1-020617				
Operator ID:	JBH	ALS Bottle#:	8	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 (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21053.d
Lims ID: 280-106192-A-10-A
Client ID: FAY-D-3671HEART-W1-1-020617
Sample Type: Client
Inject. Date: 21-Feb-2018 10:22:20 ALS Bottle#: 8 Worklist Smp#: 53
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-10-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.76	87.56

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-5770DRGFL-W1-1-020718
Lab Sample ID: 280-106192-11
Matrix: Water
Lab File ID: hfpo718B21054.d
Analysis Method: 8321A
Date Collected: 02/07/2018 09:09
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 281.4(mL)
Date Analyzed: 02/21/2018 10:25
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.: 405661
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\20180221-67419.b\hfpo718B21054.d
Lims ID: 280-106192-B-11-A
Client ID: FAY-D-6770DRGFL-W1-1-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 10:25:35 ALS Bottle#: 9 Worklist Smp#: 54
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-11-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:59

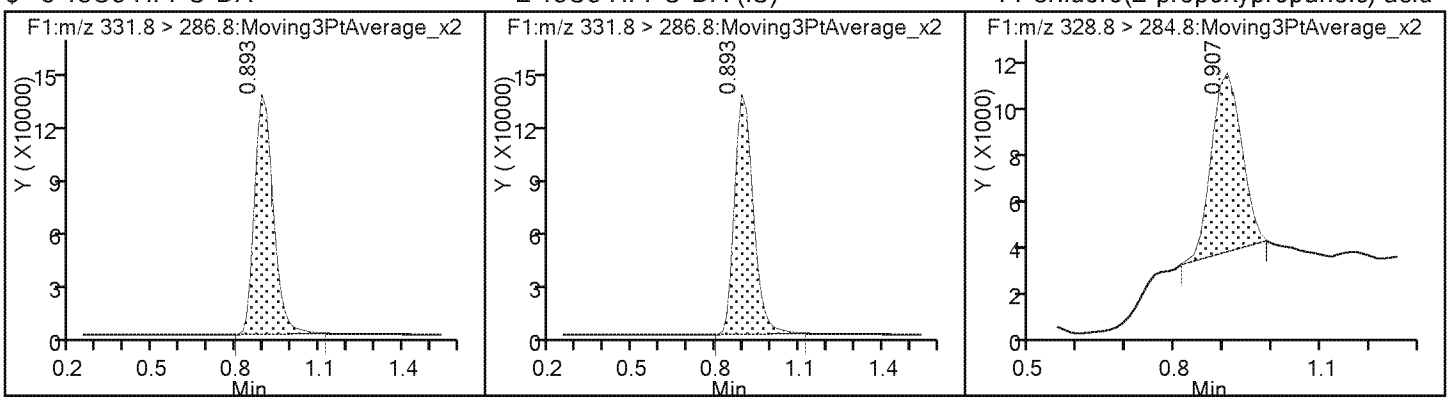
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	615942	8.25	1144	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		615942	10.0	1144	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	31397	0.4452	3.4	

Report Date: 21-Feb-2018 14:19:12 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21054.d				
Injection Date:	21-Feb-2018 10:25:35	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-B-11-A	Lab Sample ID:	280-106192-11		
Client ID:	FAY-D-6770DRGFL-W1-1-020717				
Operator ID:	JBH	ALS Bottle#:	9	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



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21054.d
Lims ID: 280-106192-B-11-A
Client ID: FAY-D-6770DRGFL-W1-1-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 10:25:35 ALS Bottle#: 9 Worklist Smp#: 54
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-11-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.25	82.50

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3509TRERG-W1-1-020718
Lab Sample ID: 280-106192-12
Matrix: Water
Lab File ID: hfpo718B21055.d
Analysis Method: 8321A
Date Collected: 02/07/2018 11:02
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 290.9(mL)
Date Analyzed: 02/21/2018 10:28
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.: 405661
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.017		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21055.d
Lims ID: 280-106192-B-12-A
Client ID: FAY-D-3509TRERG-W1-1-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 10:28:50 ALS Bottle#: 10 Worklist Smp#: 55
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-12-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:16:08

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	664444	8.90	1330	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		664444	10.0	1330	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.907	1.056	-0.149	1.000	71318	0.9750	7.1	M

QC Flag Legend

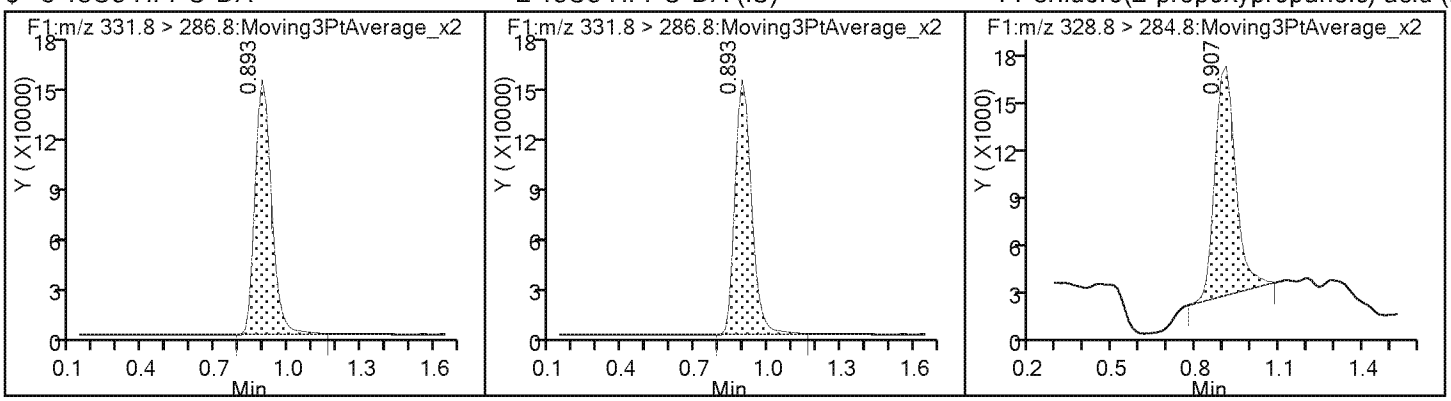
Review Flags
M - Manually Integrated

Report Date: 21-Feb-2018 14:19:13 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21055.d				
Injection Date:	21-Feb-2018 10:28:50	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-B-12-A	Lab Sample ID:	280-106192-12		
Client ID:	FAY-D-3509TRERG-W1-1-020717				
Operator ID:	JBH	ALS Bottle#:	10	Worklist Smp#:	55
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\20180221-67419.b\hfpo718B21055.d
Lims ID: 280-106192-B-12-A
Client ID: FAY-D-3509TRERG-W1-1-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 10:28:50 ALS Bottle#: 10 Worklist Smp#: 55
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-12-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:16:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.90	89.00

Manual Integration/User Assign Peak Report

TestAmerica Denver

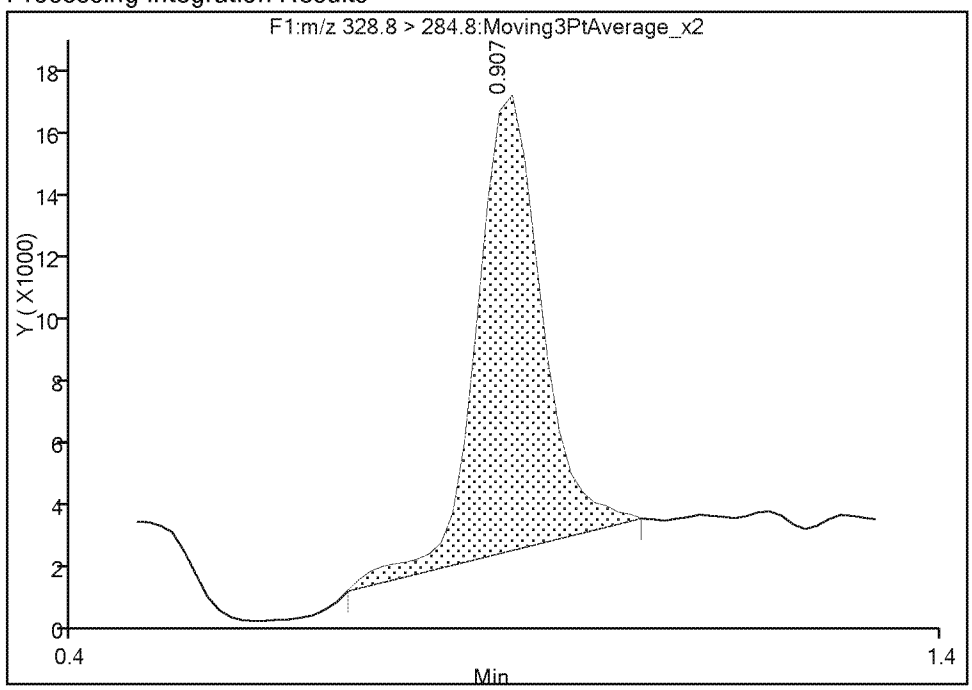
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21055.d				
Injection Date:	21-Feb-2018 10:28:50	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-B-12-A	Lab Sample ID:	280-106192-12		
Client ID:	FAY-D-3509TRERG-W1-1-020717				
Operator ID:	JBH	ALS Bottle#:	10	Worklist Smp#:	55
Injection 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

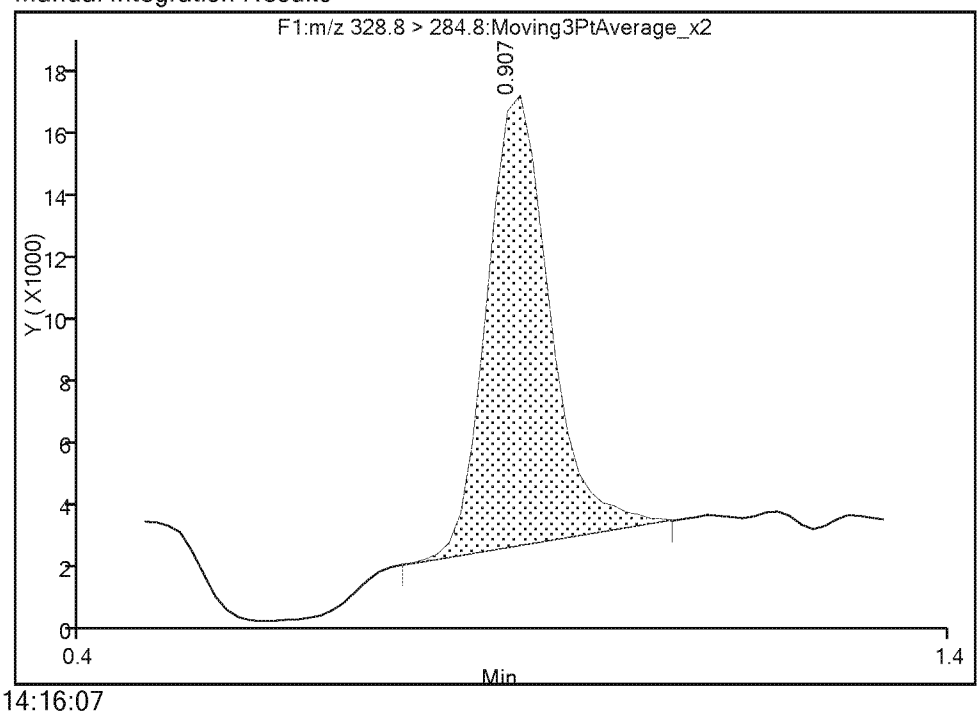
Processing Integration Results

RT: 0.91
Area: 74856
Amount: 1.025068
Amount Units: ug/l



Manual Integration Results

RT: 0.91
Area: 71318
Amount: 0.975013
Amount Units: ug/l



Reviewer: meyera, 21-Feb-2018 14:16:07

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3509TRERG-W1-2-020718
Lab Sample ID: 280-106192-13
Matrix: Water
Lab File ID: hfpo718B21056.d
Analysis Method: 8321A
Date Collected: 02/07/2018 11:04
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 284.8(mL)
Date Analyzed: 02/21/2018 10:32
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.: 405661
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	86		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21056.d
Lims ID: 280-106192-A-13-A
Client ID: FAY-D-3509TRERG-W1-2-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 10:32:04 ALS Bottle#: 11 Worklist Smp#: 56
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-13-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:16:19

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	643960	8.63	1177	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		643960	10.0	1177	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.907	1.056	-0.149	1.000	62029	0.8715	6.4	M

QC Flag Legend

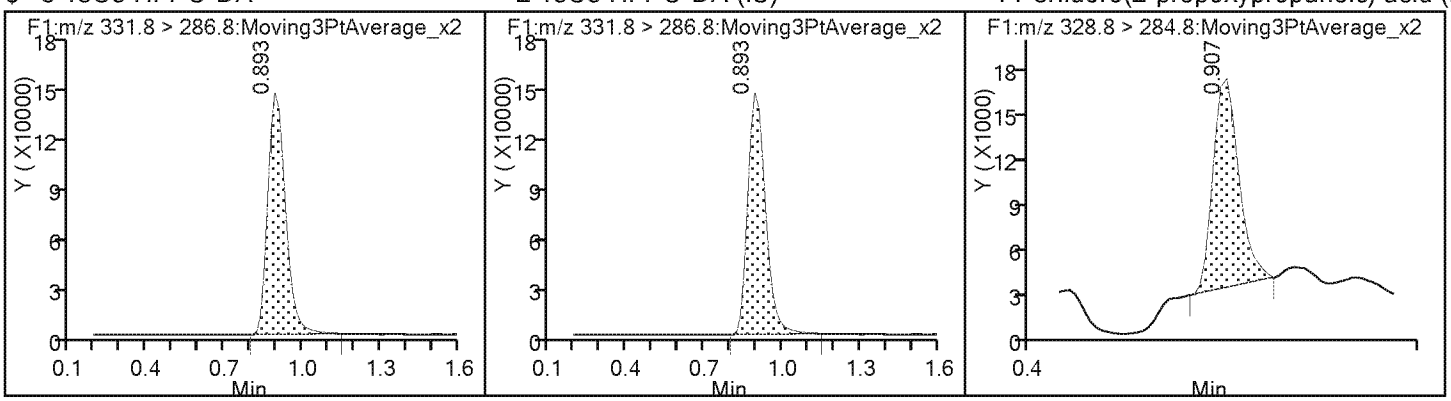
Review Flags
M - Manually Integrated

Report Date: 21-Feb-2018 14:19:14 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21056.d				
Injection Date:	21-Feb-2018 10:32:04	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-13-A	Lab Sample ID:	280-106192-13		
Client ID:	FAY-D-3509TRERG-W1-2-020717				
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 (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21056.d
Lims ID: 280-106192-A-13-A
Client ID: FAY-D-3509TRERG-W1-2-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 10:32:04 ALS Bottle#: 11 Worklist Smp#: 56
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-13-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:16:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.63	86.25

Manual Integration/User Assign Peak Report

TestAmerica Denver

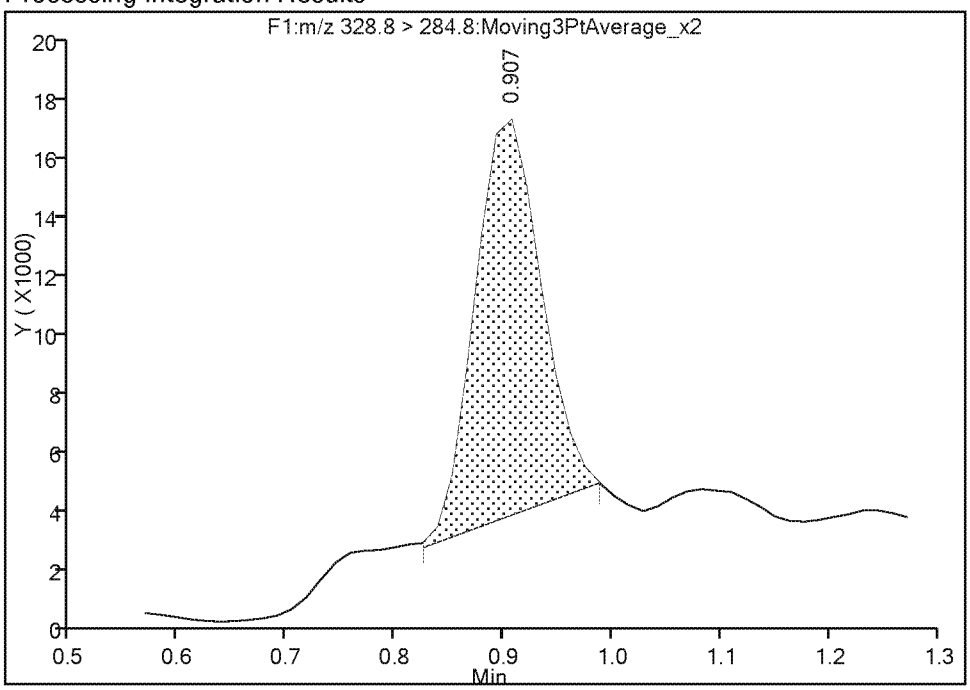
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21056.d				
Injection Date:	21-Feb-2018 10:32:04	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-13-A	Lab Sample ID:	280-106192-13		
Client ID:	FAY-D-3509TRERG-W1-2-020717				
Operator ID:	JBH	ALS Bottle#:	11	Worklist Smp#:	56
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

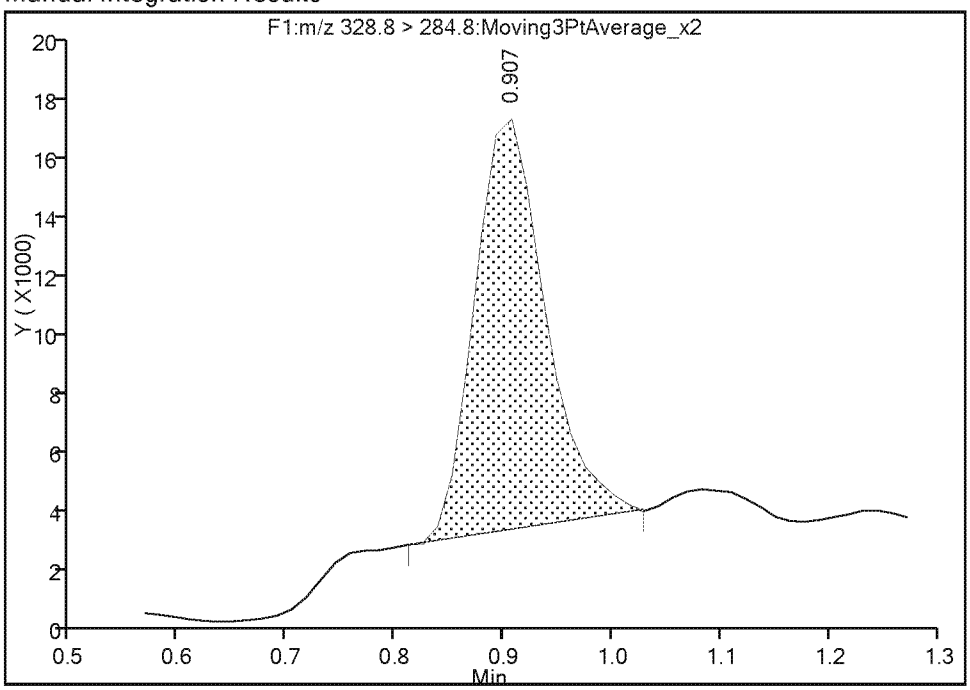
Processing Integration Results

RT: 0.91
Area: 56453
Amount: 0.790115
Amount Units: ug/l



Manual Integration Results

RT: 0.91
Area: 62029
Amount: 0.871511
Amount Units: ug/l



Reviewer: meyera, 21-Feb-2018 14:16:17

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-49DRYES-W1-1-020718
Lab Sample ID: 280-106192-14
Matrix: Water
Lab File ID: hfpo718B21130.d
Analysis Method: 8321A
Date Collected: 02/07/2018 13:17
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 292.3(mL)
Date Analyzed: 02/21/2018 14:33
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.: 405707
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	107		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21130.d
Lims ID: 280-106192-C-14-A
Client ID: FAY-D-49DRYES-W1-1-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 14:33:28 ALS Bottle#: 37 Worklist Smp#: 130
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-14-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 15:40:50

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	796841	10.7	1078	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		796841	10.0	1078	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.893	1.056	-0.163	1.000	155131	1.80	15.7	M

QC Flag Legend

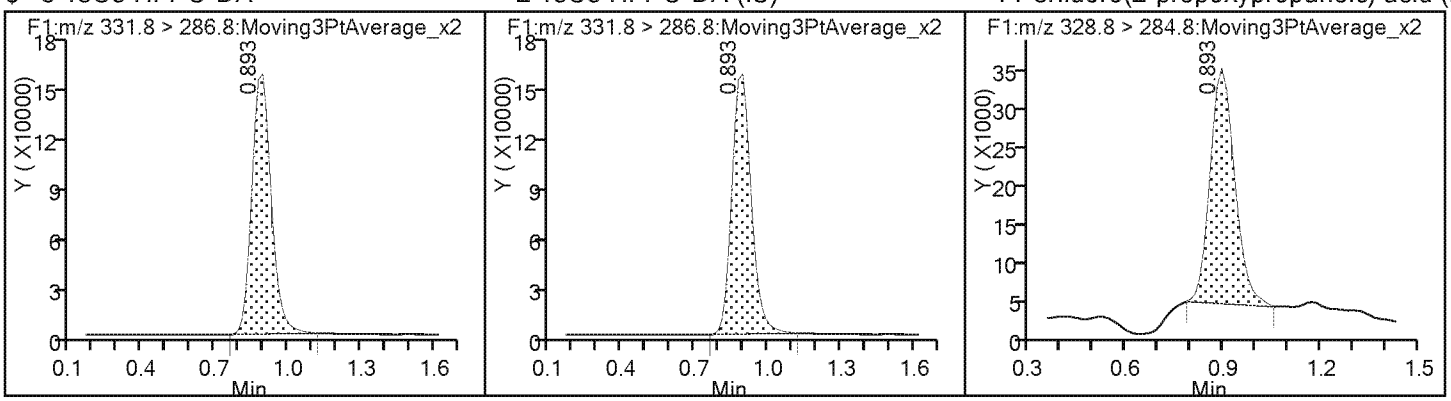
Review Flags
M - Manually Integrated

Report Date: 21-Feb-2018 15:45:31 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21130.d				
Injection Date:	21-Feb-2018 14:33:28	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-14-A	Lab Sample ID:	280-106192-14		
Client ID:	FAY-D-49DRYES-W1-1-020717				
Operator ID:	JBH	ALS Bottle#:	37	Worklist Smp#:	130
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\20180221-67419.b\hfpo718B21130.d
Lims ID: 280-106192-C-14-A
Client ID: FAY-D-49DRYES-W1-1-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 14:33:28 ALS Bottle#: 37 Worklist Smp#: 130
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-14-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 15:40:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.7	106.73

Manual Integration/User Assign Peak Report

TestAmerica Denver

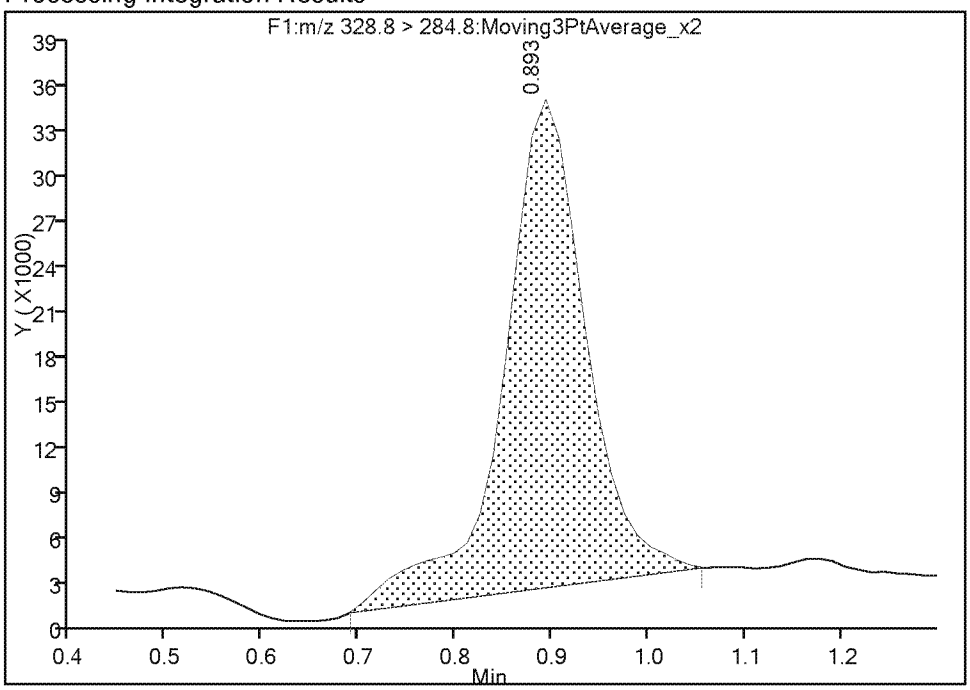
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21130.d				
Injection Date:	21-Feb-2018 14:33:28	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-14-A	Lab Sample ID:	280-106192-14		
Client ID:	FAY-D-49DRYES-W1-1-020717				
Operator ID:	JBH	ALS Bottle#:	37	Worklist Smp#:	130
Injection 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

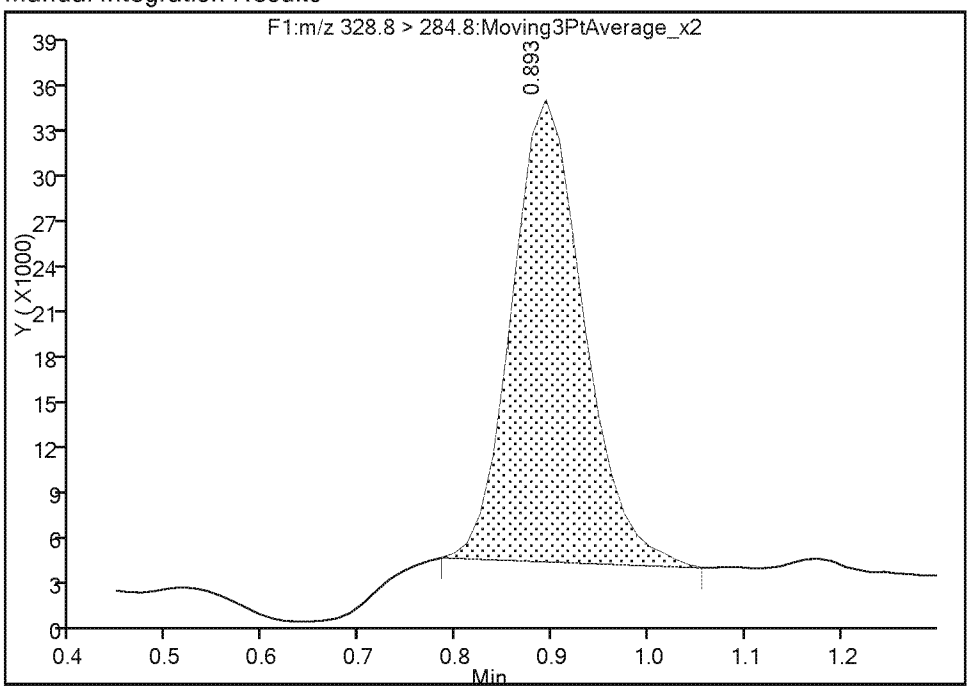
Processing Integration Results

RT: 0.89
Area: 188365
Amount: 2.188163
Amount Units: ug/l



Manual Integration Results

RT: 0.89
Area: 155131
Amount: 1.796105
Amount Units: ug/l



Reviewer: meyera, 21-Feb-2018 15:40:39

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3430DANDE-W1-1-020718
Lab Sample ID: 280-106192-15
Matrix: Water
Lab File ID: hfpo718B21132.d
Analysis Method: 8321A
Date Collected: 02/07/2018 14:05
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 280.2(mL)
Date Analyzed: 02/21/2018 14:39
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.: 405707
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.038		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	84		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21132.d
Lims ID: 280-106192-C-15-A
Client ID: FAY-D-3430DANDE-W1-1-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 14:39:59 ALS Bottle#: 38 Worklist Smp#: 132
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-15-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:43

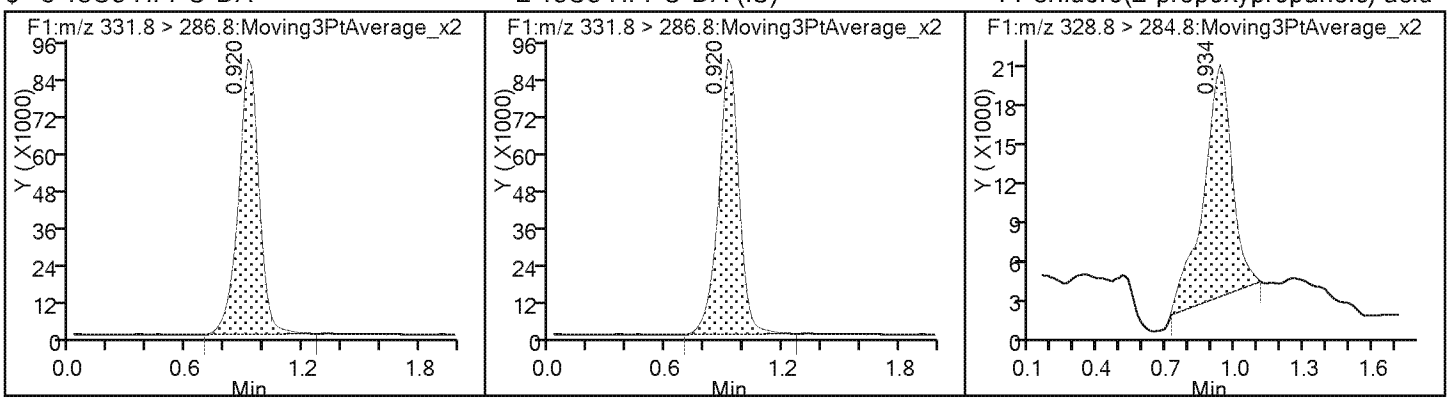
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	629694	8.43	935	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		629694	10.0	935	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	146790	2.16	7.0	

Report Date: 21-Feb-2018 15:45:33 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21132.d				
Injection Date:	21-Feb-2018 14:39:59	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-15-A	Lab Sample ID:	280-106192-15		
Client ID:	FAY-D-3430DANDE-W1-1-020717				
Operator ID:	JBH	ALS Bottle#:	38	Worklist Smp#:	132
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\20180221-67419.b\hfpo718B21132.d				
Lims ID:	280-106192-C-15-A				
Client ID:	FAY-D-3430DANDE-W1-1-020717				
Sample Type:	Client				
Inject. Date:	21-Feb-2018 14:39:59	ALS Bottle#:	38	Worklist Smp#:	132
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106192-C-15-A				
Misc. Info.:	HFPO18B21				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	21-Feb-2018 15:45:32	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:	21-Feb-2018 15:42:43		

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.43	84.34

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3809HEART-W1-1-020718
Lab Sample ID: 280-106192-16
Matrix: Water
Lab File ID: hfpo718B21133.d
Analysis Method: 8321A
Date Collected: 02/07/2018 14:50
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 278.9(mL)
Date Analyzed: 02/21/2018 14:43
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.: 405707
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	91		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21133.d
Lims ID: 280-106192-B-16-A
Client ID: FAY-D-3809HEART-W1-1-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 14:43:17 ALS Bottle#: 39 Worklist Smp#: 133
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-16-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:46

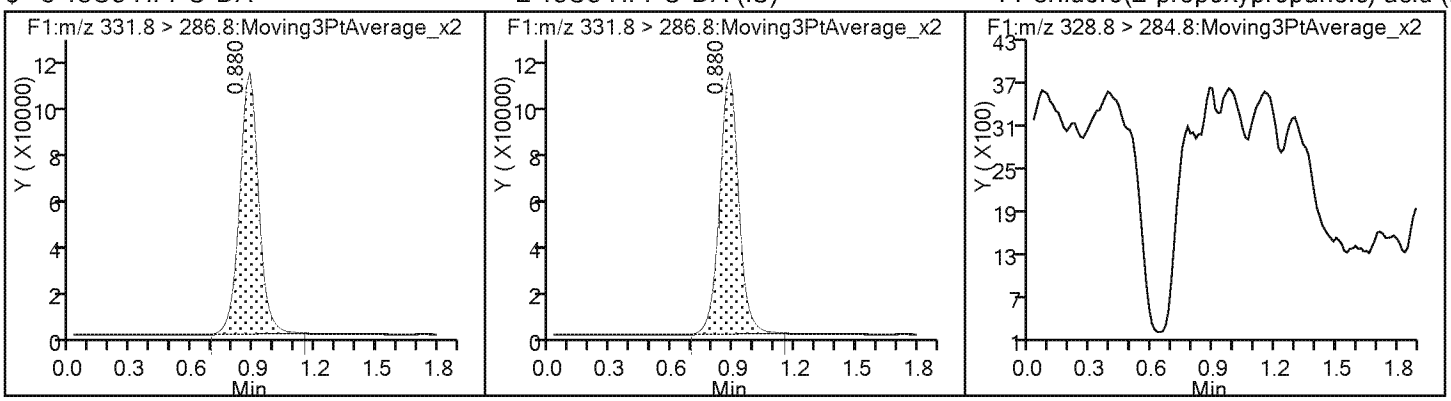
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	677063	9.07	1013	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		677063	10.0	1013	

Report Date: 21-Feb-2018 15:45:34 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21133.d				
Injection Date:	21-Feb-2018 14:43:17	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-B-16-A	Lab Sample ID:	280-106192-16		
Client ID:	FAY-D-3809HEART-W1-1-020717				
Operator ID:	JBH	ALS Bottle#:	39	Worklist Smp#:	133
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\20180221-67419.b\hfpo718B21133.d				
Lims ID:	280-106192-B-16-A				
Client ID:	FAY-D-3809HEART-W1-1-020717				
Sample Type:	Client				
Inject. Date:	21-Feb-2018 14:43:17	ALS Bottle#:	39	Worklist Smp#:	133
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106192-B-16-A				
Misc. Info.:	HFPO18B21				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	21-Feb-2018 15:45:32	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:	21-Feb-2018 15:42:46		

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.07	90.69

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3809HEART-W1-2-020718
Lab Sample ID: 280-106192-17
Matrix: Water
Lab File ID: hfpo718B21134.d
Analysis Method: 8321A
Date Collected: 02/07/2018 14:53
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 275.7(mL)
Date Analyzed: 02/21/2018 14:46
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.: 405707
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	86		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21134.d
Lims ID: 280-106192-D-17-A
Client ID: FAY-D-3809HEART-W1-2-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 14:46:33 ALS Bottle#: 40 Worklist Smp#: 134
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-17-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:48

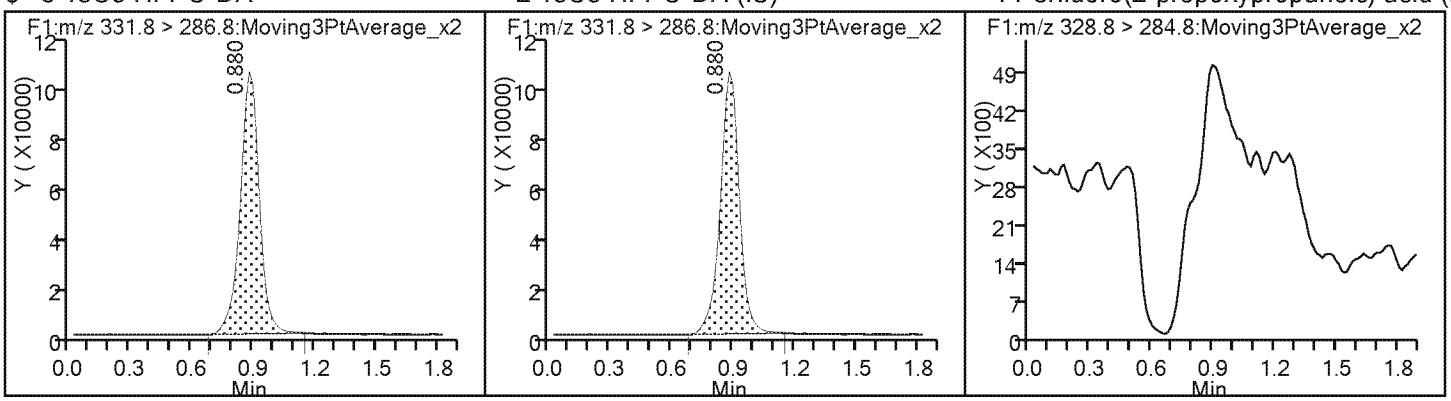
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	640920	8.58	917	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		640920	10.0	917	

Report Date: 21-Feb-2018 15:45:35 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21134.d				
Injection Date:	21-Feb-2018 14:46:33	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-D-17-A	Lab Sample ID:	280-106192-17		
Client ID:	FAY-D-3809HEART-W1-2-020717				
Operator ID:	JBH	ALS Bottle#:	40	Worklist Smp#:	134
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\20180221-67419.b\hfpo718B21134.d
Lims ID: 280-106192-D-17-A
Client ID: FAY-D-3809HEART-W1-2-020717
Sample Type: Client
Inject. Date: 21-Feb-2018 14:46:33 ALS Bottle#: 40 Worklist Smp#: 134
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-D-17-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.58	85.85

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver | Job No.: 280-106192-1

SDG No.:

Client Sample ID: FAY-D-FB-020718 | Lab Sample ID: 280-106192-18

Matrix: Water | Lab File ID: hfpo718B21135.d

Analysis Method: 8321A | Date Collected: 02/07/2018 07:00

Extraction Method: 3535 | Date Extracted: 02/20/2018 21:07

Sample wt/vol: 284.2(mL) | Date Analyzed: 02/21/2018 14:49

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.: 405707 | 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	90		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21135.d
Lims ID: 280-106192-A-18-A
Client ID: FAY-D-FB-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 14:49:52 ALS Bottle#: 41 Worklist Smp#: 135
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-18-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:50

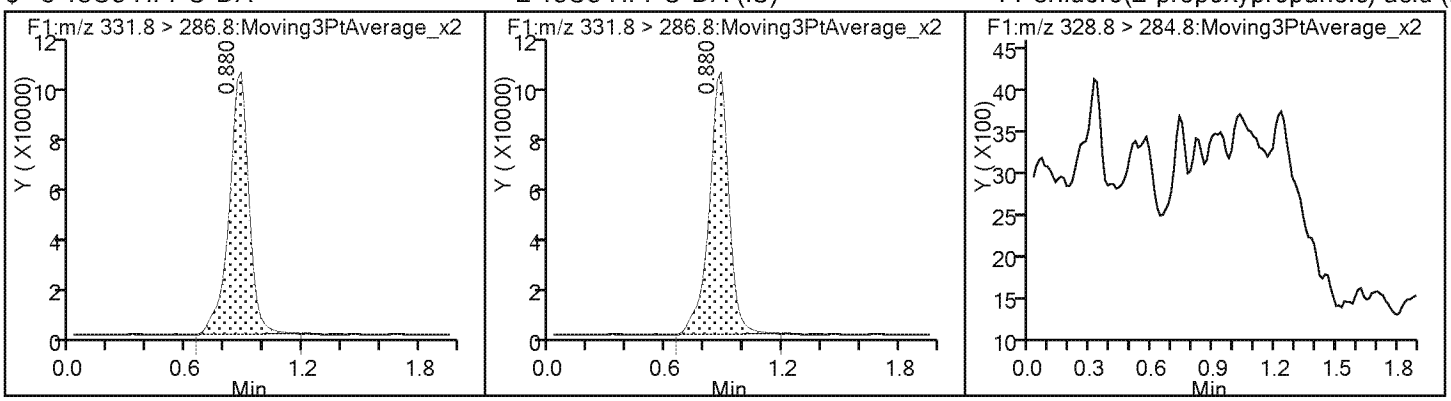
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	668452	8.95	1427	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		668452	10.0	1427	

Report Date: 21-Feb-2018 15:45:36 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21135.d				
Injection Date:	21-Feb-2018 14:49:52	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-18-A	Lab Sample ID:	280-106192-18		
Client ID:	FAY-D-FB-020718				
Operator ID:	JBH	ALS Bottle#:	41	Worklist Smp#:	135
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\20180221-67419.b\hfpo718B21135.d
Lims ID: 280-106192-A-18-A
Client ID: FAY-D-FB-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 14:49:52 ALS Bottle#: 41 Worklist Smp#: 135
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-18-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.95	89.53

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3397FALLV-W1-1-0207 18
Lab Sample ID: 280-106192-19
Matrix: Water
Lab File ID: hfpo718B21136.d
Analysis Method: 8321A
Date Collected: 02/07/2018 16:06
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 279.6(mL)
Date Analyzed: 02/21/2018 14:53
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.: 405707
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	88		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21136.d
Lims ID: 280-106192-C-19-A
Client ID: FAY-D-3397FALLV-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 14:53:08 ALS Bottle#: 42 Worklist Smp#: 136
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-19-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:52

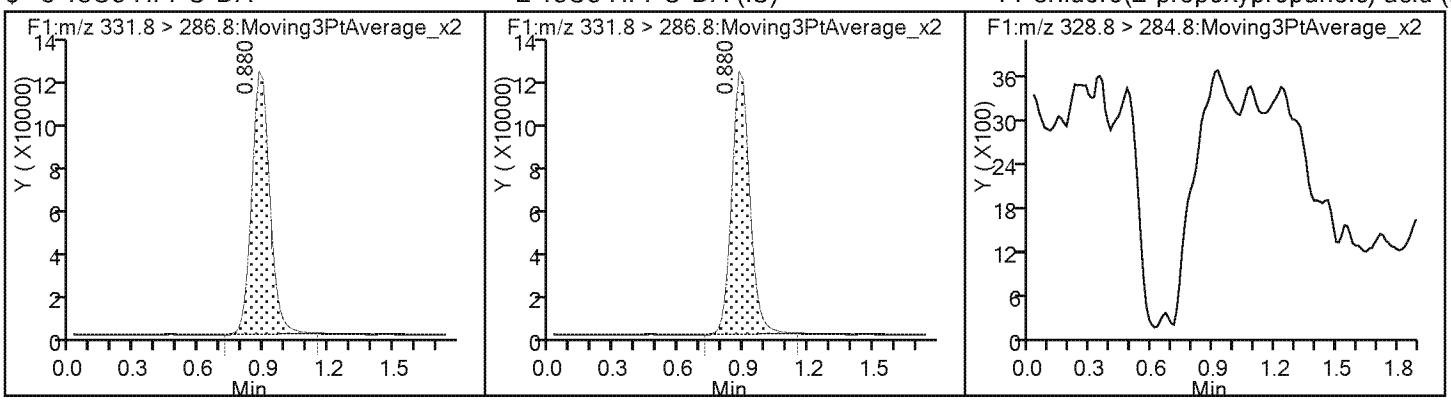
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	655448	8.78	1278	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		655448	10.0	1278	

Report Date: 21-Feb-2018 15:45:37 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21136.d				
Injection Date:	21-Feb-2018 14:53:08	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-19-A	Lab Sample ID:	280-106192-19		
Client ID:	FAY-D-3397FALLV-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	42	Worklist Smp#:	136
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\20180221-67419.b\hfpo718B21136.d
Lims ID: 280-106192-C-19-A
Client ID: FAY-D-3397FALLV-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 14:53:08 ALS Bottle#: 42 Worklist Smp#: 136
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-19-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.78	87.79

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-6849BUTLE-W1-1-020618
Lab Sample ID: 280-106192-20
Matrix: Water
Lab File ID: hfpo718B21057.d
Analysis Method: 8321A
Date Collected: 02/06/2018 15:00
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 278.3(mL)
Date Analyzed: 02/21/2018 10:35
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.: 405661
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\20180221-67419.b\hfpo718B21057.d
Lims ID: 280-106192-A-20-A
Client ID: FAY-D-6849BUTLE-W1-1-020618
Sample Type: Client
Inject. Date: 21-Feb-2018 10:35:19 ALS Bottle#: 12 Worklist Smp#: 57
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-20-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:16:33

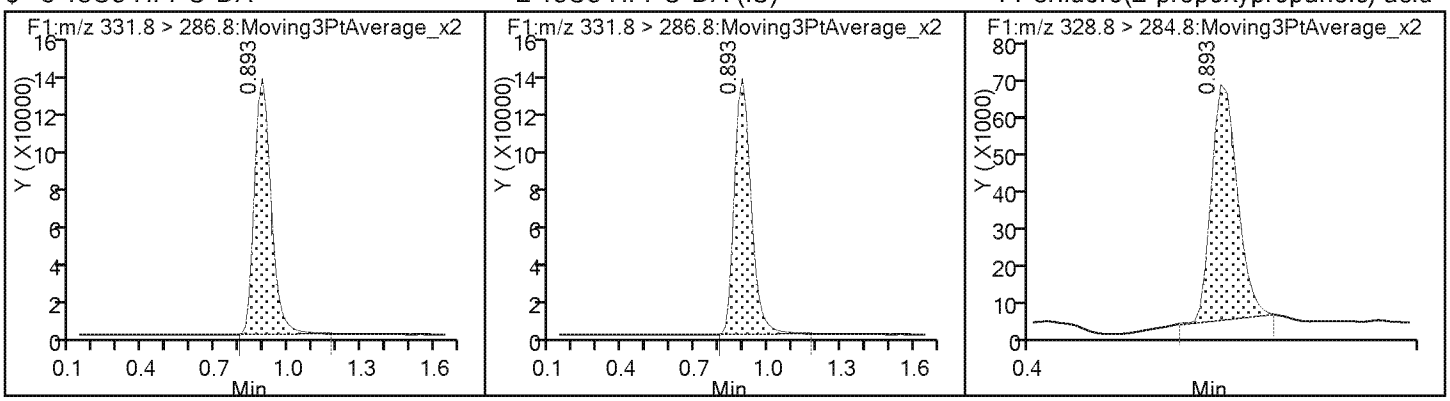
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	616065	8.25	1089	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		616065	10.0	1089	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	1.056	-0.163	1.000	290543	4.40	28.3	

Report Date: 21-Feb-2018 14:19:16 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21057.d				
Injection Date:	21-Feb-2018 10:35:19	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-20-A	Lab Sample ID:	280-106192-20		
Client ID:	FAY-D-6849BUTLE-W1-1-020618				
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



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21057.d
Lims ID: 280-106192-A-20-A
Client ID: FAY-D-6849BUTLE-W1-1-020618
Sample Type: Client
Inject. Date: 21-Feb-2018 10:35:19 ALS Bottle#: 12 Worklist Smp#: 57
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-20-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:16:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.25	82.52

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3624HEART-W1-1-020618
Lab Sample ID: 280-106192-21
Matrix: Water
Lab File ID: hfpo718B21058.d
Analysis Method: 8321A
Date Collected: 02/06/2018 11:01
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 296.6(mL)
Date Analyzed: 02/21/2018 10:38
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.: 405661
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	88		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21058.d
Lims ID: 280-106192-A-21-A
Client ID: FAY-D-3624HEART-W1-1-020618
Sample Type: Client
Inject. Date: 21-Feb-2018 10:38:34 ALS Bottle#: 13 Worklist Smp#: 58
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-21-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:16:36

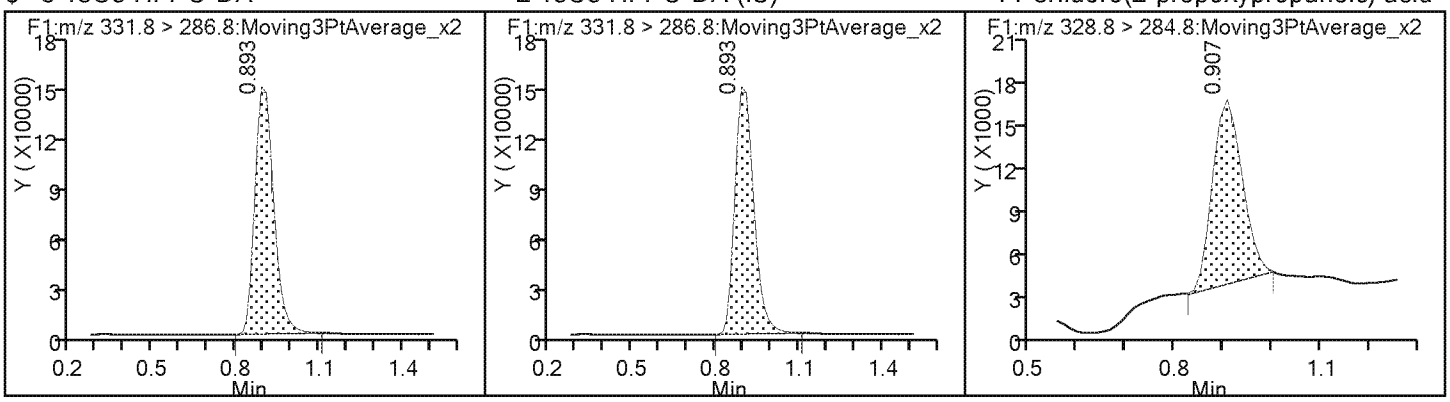
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	657143	8.80	959	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		657143	10.0	959	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	51464	0.7022	5.5	

Report Date: 21-Feb-2018 14:19:18 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21058.d				
Injection Date:	21-Feb-2018 10:38:34	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-21-A	Lab Sample ID:	280-106192-21		
Client ID:	FAY-D-3624HEART-W1-1-020618				
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



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21058.d
Lims ID: 280-106192-A-21-A
Client ID: FAY-D-3624HEART-W1-1-020618
Sample Type: Client
Inject. Date: 21-Feb-2018 10:38:34 ALS Bottle#: 13 Worklist Smp#: 58
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-21-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:16:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.80	88.02

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-6670TABOR-W1-1-020718
Lab Sample ID: 280-106192-22
Matrix: Water
Lab File ID: hfpo718B21137.d
Analysis Method: 8321A
Date Collected: 02/07/2018 09:49
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 263.4(mL)
Date Analyzed: 02/21/2018 14:56
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.: 405707
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	88		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21137.d
Lims ID: 280-106192-A-22-A
Client ID: FAY-D-6670TABOR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 14:56:25 ALS Bottle#: 43 Worklist Smp#: 137
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-22-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:54

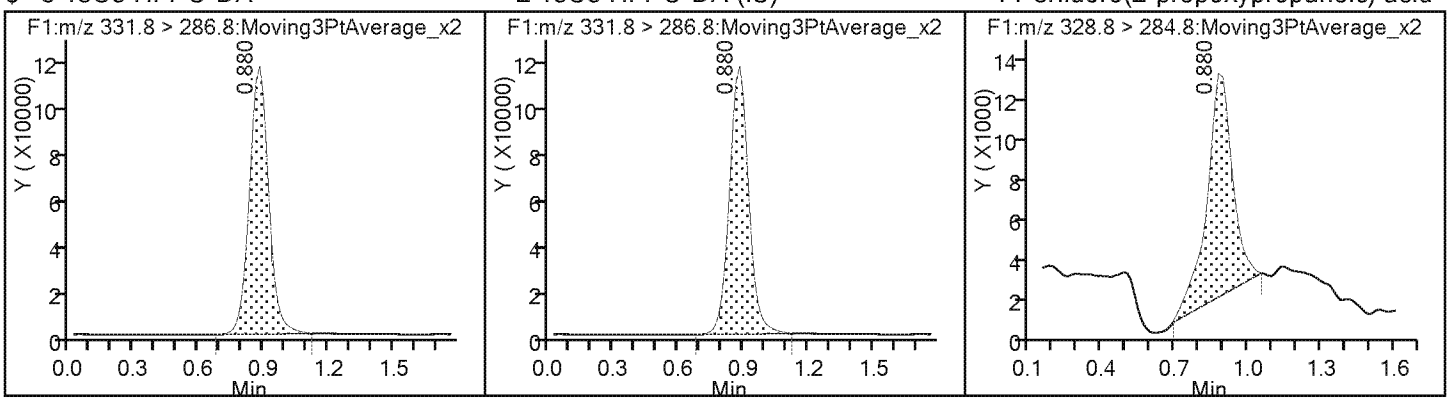
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	655197	8.78	879	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		655197	10.0	879	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.880	1.056	-0.176	1.000	77925	1.08	5.8	

Report Date: 21-Feb-2018 15:45:39 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21137.d				
Injection Date:	21-Feb-2018 14:56:25	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-22-A	Lab Sample ID:	280-106192-22		
Client ID:	FAY-D-6670TABOR-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	43	Worklist Smp#:	137
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\20180221-67419.b\hfpo718B21137.d				
Lims ID:	280-106192-A-22-A				
Client ID:	FAY-D-6670TABOR-W1-1-020718				
Sample Type:	Client				
Inject. Date:	21-Feb-2018 14:56:25	ALS Bottle#:	43	Worklist Smp#:	137
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106192-A-22-A				
Misc. Info.:	HFPO18B21				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	21-Feb-2018 15:45:32	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: 21-Feb-2018 15:42:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.78	87.76

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-6908GRHRT-W1-1-020718
Lab Sample ID: 280-106192-23
Matrix: Water
Lab File ID: hfpo718B21138.d
Analysis Method: 8321A
Date Collected: 02/07/2018 10:14
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 291.8(mL)
Date Analyzed: 02/21/2018 14:59
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.: 405707
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.042		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	111		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21138.d
Lims ID: 280-106192-C-23-A
Client ID: FAY-D-6908GRHRT-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 14:59:43 ALS Bottle#: 44 Worklist Smp#: 138
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-23-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:56

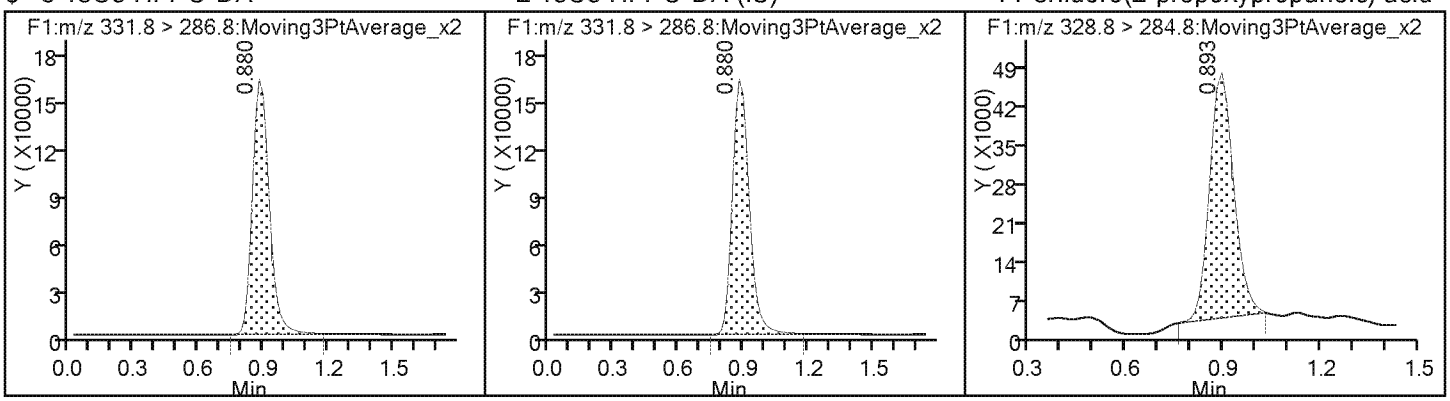
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	828876	11.1	1391	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		828876	10.0	1391	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	1.056	-0.163	1.000	219672	2.46	22.7	

Report Date: 21-Feb-2018 15:45:40 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21138.d				
Injection Date:	21-Feb-2018 14:59:43	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-23-A	Lab Sample ID:	280-106192-23		
Client ID:	FAY-D-6908GRHRT-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	44	Worklist Smp#:	138
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\20180221-67419.b\hfpo718B21138.d				
Lims ID:	280-106192-C-23-A				
Client ID:	FAY-D-6908GRHRT-W1-1-020718				
Sample Type:	Client				
Inject. Date:	21-Feb-2018 14:59:43	ALS Bottle#:	44	Worklist Smp#:	138
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106192-C-23-A				
Misc. Info.:	HFPO18B21				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		

Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m		
Limit Group:	LC - 8321A_HFPO_Du		
Last Update:	21-Feb-2018 15:45:32	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: 21-Feb-2018 15:42:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.1	111.02

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-6919JOHNS-W1-1-020718
Lab Sample ID: 280-106192-24
Matrix: Water
Lab File ID: hfpo718B21139.d
Analysis Method: 8321A
Date Collected: 02/07/2018 15:29
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 280.1(mL)
Date Analyzed: 02/21/2018 15:03
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.: 405707
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	90		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21139.d
Lims ID: 280-106192-A-24-A
Client ID: FAY-D-6919JOHNS-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:03:01 ALS Bottle#: 45 Worklist Smp#: 139
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-24-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:58

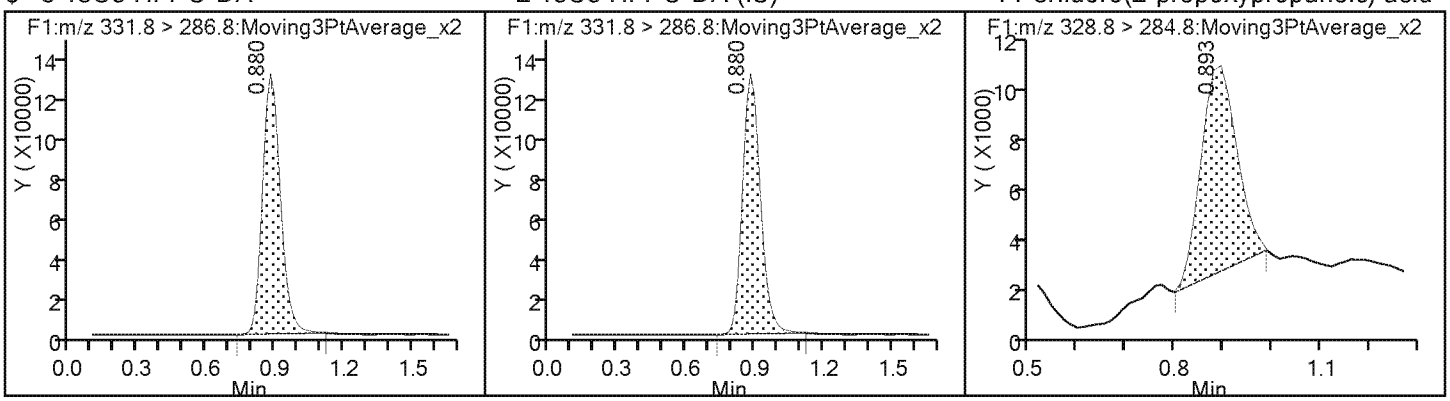
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	675260	9.04	1228	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		675260	10.0	1228	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	1.056	-0.163	1.000	39511	0.5161	5.9	

Report Date: 21-Feb-2018 15:45:41 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21139.d				
Injection Date:	21-Feb-2018 15:03:01	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-24-A	Lab Sample ID:	280-106192-24		
Client ID:	FAY-D-6919JOHNS-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	45	Worklist Smp#:	139
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\20180221-67419.b\hfpo718B21139.d
Lims ID: 280-106192-A-24-A
Client ID: FAY-D-6919JOHNS-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:03:01 ALS Bottle#: 45 Worklist Smp#: 139
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-24-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:42:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.04	90.44

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-6919JOHNS-W1-2-020718
Lab Sample ID: 280-106192-25
Matrix: Water
Lab File ID: hfpo718B21140.d
Analysis Method: 8321A
Date Collected: 02/07/2018 15:30
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 285.2(mL)
Date Analyzed: 02/21/2018 15:06
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.: 405707
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	91		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21140.d
Lims ID: 280-106192-B-25-A
Client ID: FAY-D-6919JOHNS-W1-2-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:06:18 ALS Bottle#: 46 Worklist Smp#: 140
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-25-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:43:08

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	676713	9.06	1182	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		676713	10.0	1182	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.893	1.056	-0.163	1.000	37243	0.4834	6.6	M

QC Flag Legend

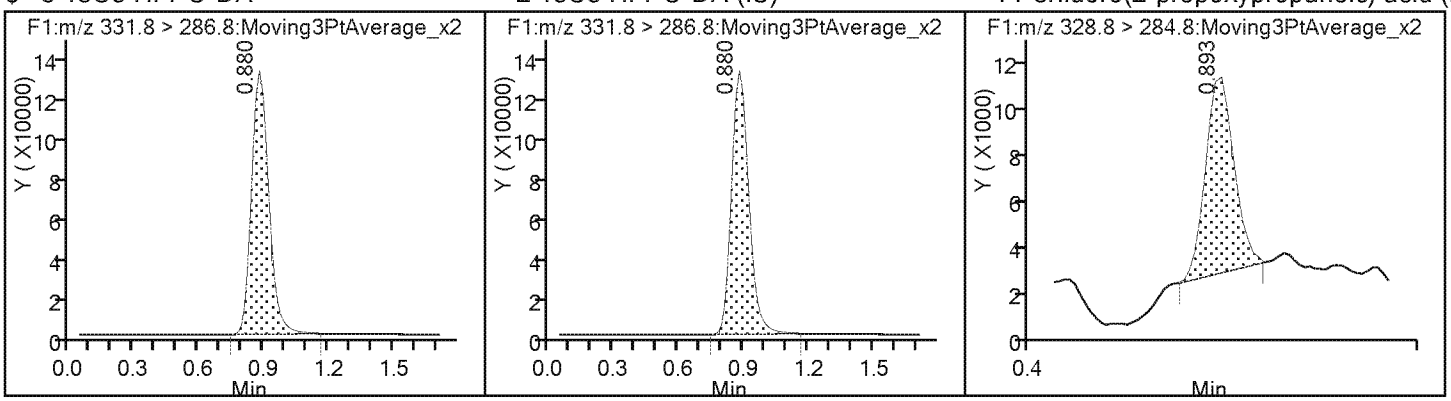
Review Flags
M - Manually Integrated

Report Date: 21-Feb-2018 15:45:42 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21140.d				
Injection Date:	21-Feb-2018 15:06:18	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-B-25-A	Lab Sample ID:	280-106192-25		
Client ID:	FAY-D-6919JOHNS-W1-2-020718				
Operator ID:	JBH	ALS Bottle#:	46	Worklist Smp#:	140
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\20180221-67419.b\hfpo718B21140.d
Lims ID: 280-106192-B-25-A
Client ID: FAY-D-6919JOHNS-W1-2-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:06:18 ALS Bottle#: 46 Worklist Smp#: 140
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-25-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:43:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.06	90.64

Manual Integration/User Assign Peak Report

TestAmerica Denver

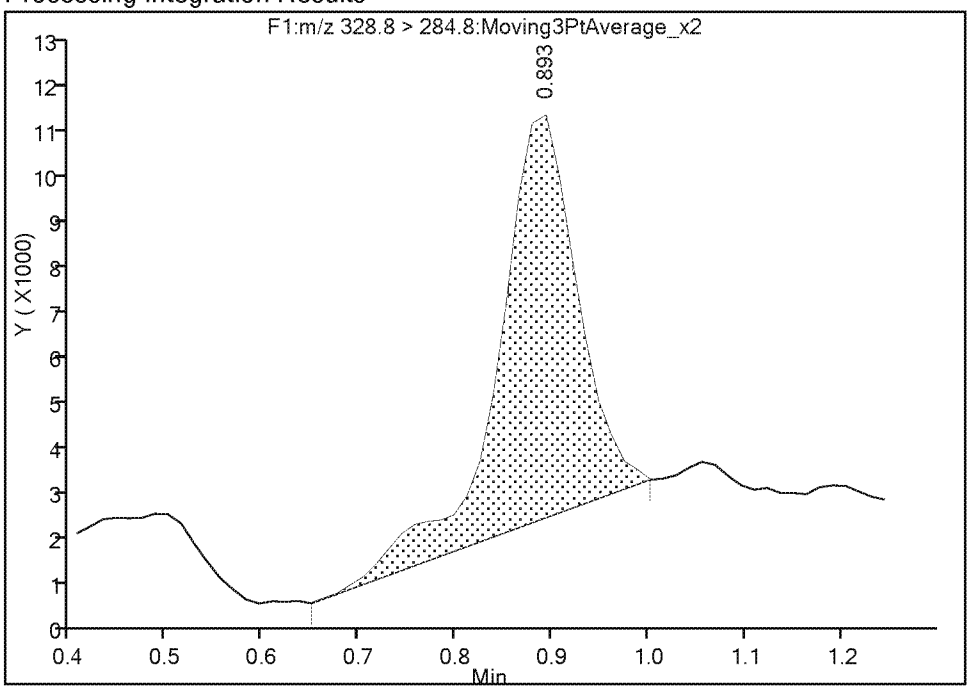
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21140.d				
Injection Date:	21-Feb-2018 15:06:18	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-B-25-A	Lab Sample ID:	280-106192-25		
Client ID:	FAY-D-6919JOHNS-W1-2-020718				
Operator ID:	JBH	ALS Bottle#:	46	Worklist Smp#:	140
Injection 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

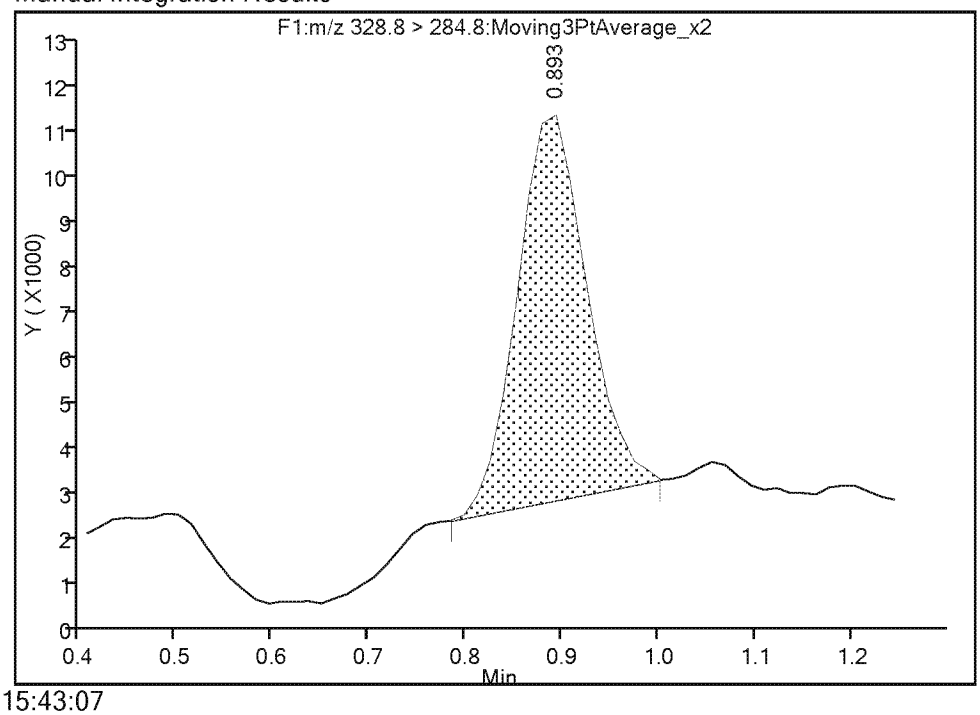
Processing Integration Results

RT: 0.89
Area: 44412
Amount: 0.582967
Amount Units: ug/l



Manual Integration Results

RT: 0.89
Area: 37243
Amount: 0.483382
Amount Units: ug/l



Reviewer: meyera, 21-Feb-2018 15:43:07

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-6951JOHNS-W1-1-020718
Lab Sample ID: 280-106192-26
Matrix: Water
Lab File ID: hfpo718B21141.d
Analysis Method: 8321A
Date Collected: 02/07/2018 15:44
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 273.6(mL)
Date Analyzed: 02/21/2018 15:09
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.: 405707
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.016		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	110		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21141.d
Lims ID: 280-106192-C-26-A
Client ID: FAY-D-6951JOHNS-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:09:36 ALS Bottle#: 47 Worklist Smp#: 141
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-26-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:43:11

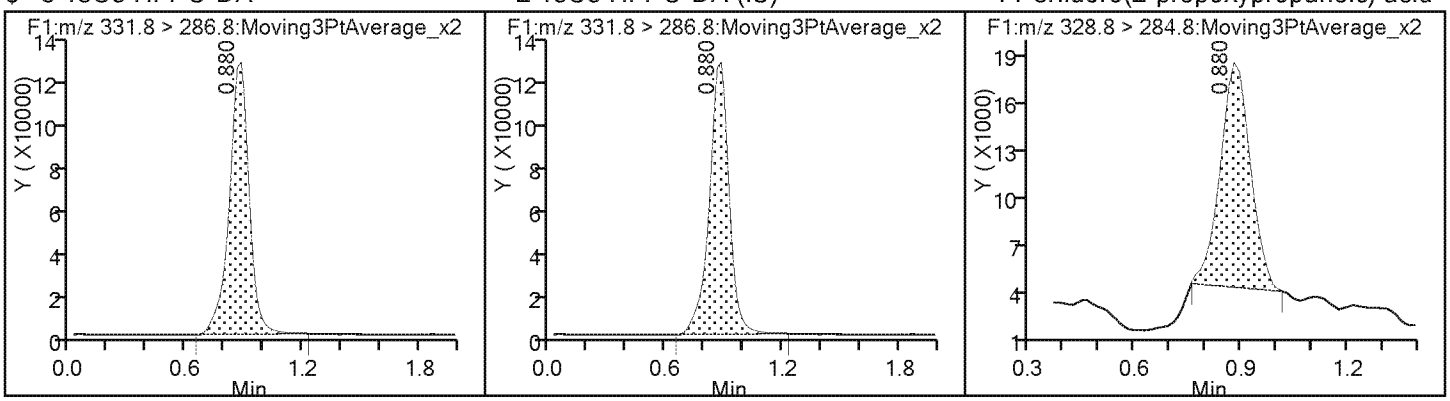
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	820564	11.0	1440	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		820564	10.0	1440	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.880	1.056	-0.176	1.000	81299	0.8974	13.1	

Report Date: 21-Feb-2018 15:45:43 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21141.d				
Injection Date:	21-Feb-2018 15:09:36	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-26-A	Lab Sample ID:	280-106192-26		
Client ID:	FAY-D-6951JOHNS-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	47	Worklist Smp#:	141
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\20180221-67419.b\hfpo718B21141.d
Lims ID: 280-106192-C-26-A
Client ID: FAY-D-6951JOHNS-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:09:36 ALS Bottle#: 47 Worklist Smp#: 141
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-26-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:43:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	11.0	109.91

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-7530TABOR-W1-1-020718
Lab Sample ID: 280-106192-27
Matrix: Water
Lab File ID: hfpo718B21143.d
Analysis Method: 8321A
Date Collected: 02/07/2018 16:11
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 279.2(mL)
Date Analyzed: 02/21/2018 15:16
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.: 405707
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.016		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	88		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21143.d
Lims ID: 280-106192-C-27-A
Client ID: FAY-D-7530TABOR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:16:07 ALS Bottle#: 48 Worklist Smp#: 143
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-27-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:44:53

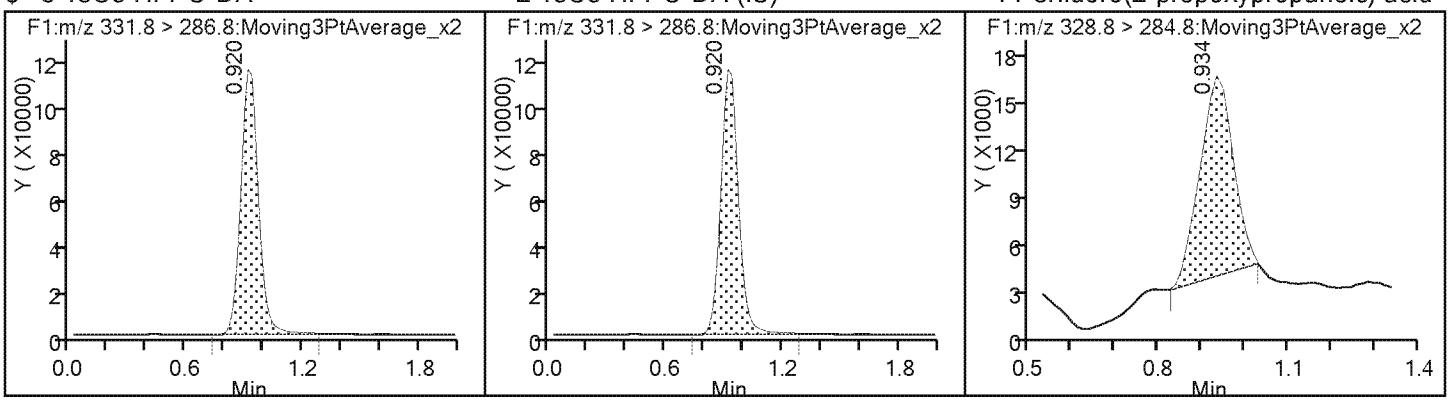
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.920	1.045	-0.125	1.000	657520	8.81	1311	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		657520	10.0	1311	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.934	1.056	-0.122	1.000	65319	0.8999	6.3	

Report Date: 21-Feb-2018 15:45:44 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21143.d				
Injection Date:	21-Feb-2018 15:16:07	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-27-A	Lab Sample ID:	280-106192-27		
Client ID:	FAY-D-7530TABOR-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	48	Worklist Smp#:	143
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\20180221-67419.b\hfpo718B21143.d
Lims ID: 280-106192-C-27-A
Client ID: FAY-D-7530TABOR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:16:07 ALS Bottle#: 48 Worklist Smp#: 143
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-27-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:44:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.81	88.07

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3615PNEBR-W1-1-020718
Lab Sample ID: 280-106192-28
Matrix: Water
Lab File ID: hfpo718B21144.d
Analysis Method: 8321A
Date Collected: 02/07/2018 17:09
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 272.5(mL)
Date Analyzed: 02/21/2018 15:19
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.: 405707
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	91		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21144.d
Lims ID: 280-106192-A-28-A
Client ID: FAY-D-3615PNEBR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:19:24 ALS Bottle#: 12 Worklist Smp#: 144
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-28-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:44:55

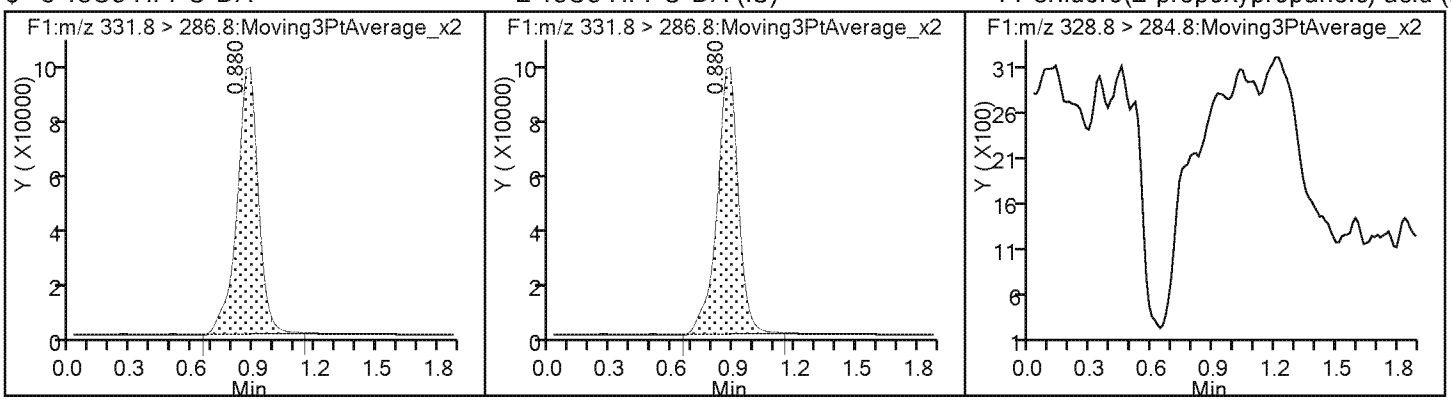
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	677125	9.07	890	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		677125	10.0	890	

Report Date: 21-Feb-2018 15:45:45 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21144.d				
Injection Date:	21-Feb-2018 15:19:24	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-28-A	Lab Sample ID:	280-106192-28		
Client ID:	FAY-D-3615PNEBR-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	12	Worklist Smp#:	144
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\20180221-67419.b\hfpo718B21144.d
Lims ID: 280-106192-A-28-A
Client ID: FAY-D-3615PNEBR-W1-1-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:19:24 ALS Bottle#: 12 Worklist Smp#: 144
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-28-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:44:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.07	90.69

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3615PNEBR-W1-2-020718
Lab Sample ID: 280-106192-29
Matrix: Water
Lab File ID: hfpo718B21147.d
Analysis Method: 8321A
Date Collected: 02/07/2018 17:14
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 282.4(mL)
Date Analyzed: 02/21/2018 15:29
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.: 405707
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	94		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21147.d
Lims ID: 280-106192-A-29-A
Client ID: FAY-D-3615PNEBR-W1-2-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:29:08 ALS Bottle#: 15 Worklist Smp#: 147
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-29-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:45:02

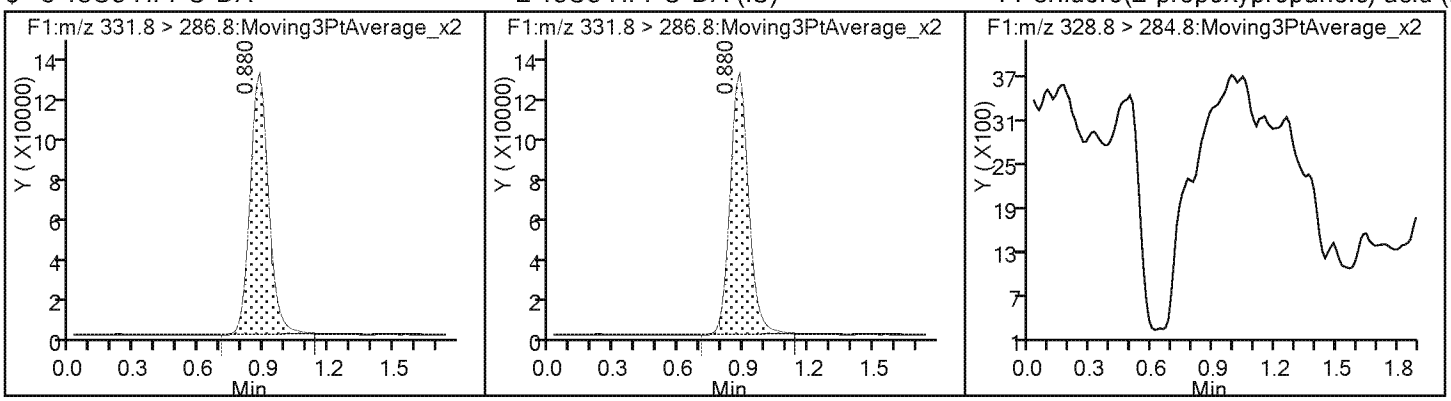
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	698396	9.35	1077	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		698396	10.0	1077	

Report Date: 21-Feb-2018 15:45:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21147.d				
Injection Date:	21-Feb-2018 15:29:08	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-A-29-A	Lab Sample ID:	280-106192-29		
Client ID:	FAY-D-3615PNEBR-W1-2-020718				
Operator ID:	JBH	ALS Bottle#:	15	Worklist Smp#:	147
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\20180221-67419.b\hfpo718B21147.d
Lims ID: 280-106192-A-29-A
Client ID: FAY-D-3615PNEBR-W1-2-020718
Sample Type: Client
Inject. Date: 21-Feb-2018 15:29:08 ALS Bottle#: 15 Worklist Smp#: 147
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-A-29-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:45:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.35	93.54

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3615PNEBR-W1-1-0207 18D
Lab Sample ID: 280-106192-30
Matrix: Water
Lab File ID: hfpo718B21148.d
Analysis Method: 8321A
Date Collected: 02/07/2018 17:09
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 270.6(mL)
Date Analyzed: 02/21/2018 15:32
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.: 405707
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	109		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21148.d
Lims ID: 280-106192-C-30-A
Client ID: FAY-D-3615PNEBR-W1-1-020718D
Sample Type: Client
Inject. Date: 21-Feb-2018 15:32:22 ALS Bottle#: 16 Worklist Smp#: 148
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-30-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:45:05

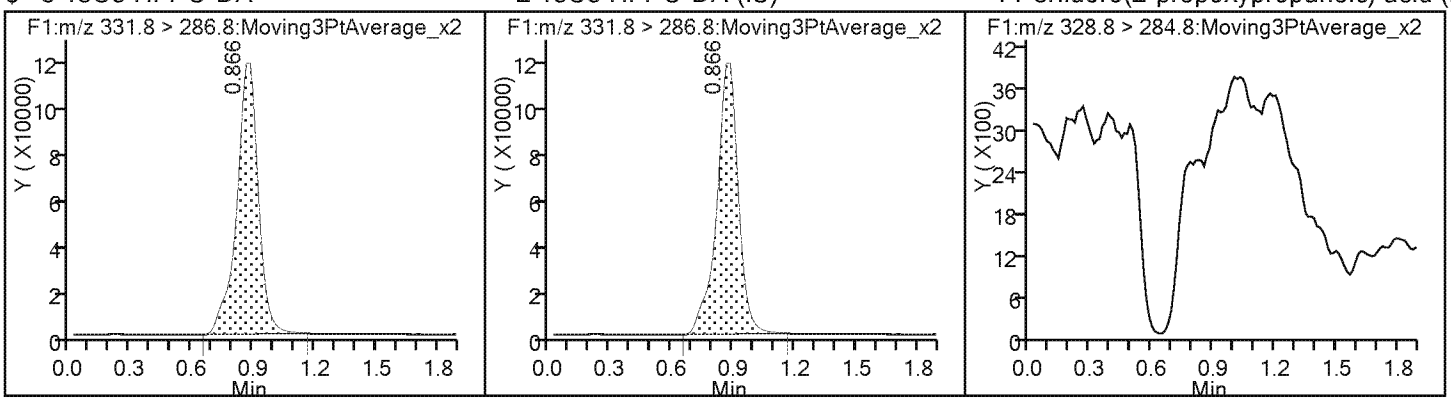
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.866	1.045	-0.179	1.000	810183	10.9	823	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.866	1.045	-0.179		810183	10.0	823	

Report Date: 21-Feb-2018 15:45:48 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21148.d				
Injection Date:	21-Feb-2018 15:32:22	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-30-A	Lab Sample ID:	280-106192-30		
Client ID:	FAY-D-3615PNEBR-W1-1-020718D				
Operator ID:	JBH	ALS Bottle#:	16	Worklist Smp#:	148
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\20180221-67419.b\hfpo718B21148.d				
Lims ID:	280-106192-C-30-A				
Client ID:	FAY-D-3615PNEBR-W1-1-020718D				
Sample Type:	Client				
Inject. Date:	21-Feb-2018 15:32:22	ALS Bottle#:	16	Worklist Smp#:	148
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Sample Info:	280-106192-C-30-A				
Misc. Info.:	HFPO18B21				
Operator ID:	JBH	Instrument ID:	LC_LCMS7		
Method:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m				
Limit Group:	LC - 8321A_HFPO_Du				
Last Update:	21-Feb-2018 15:45:43	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:	21-Feb-2018 15:45:05		

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	10.9	108.52

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-106192-1 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.: 280-106192-1 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.: 280-106192-1 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.: 280-106192-1 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.: 280-106192-1 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

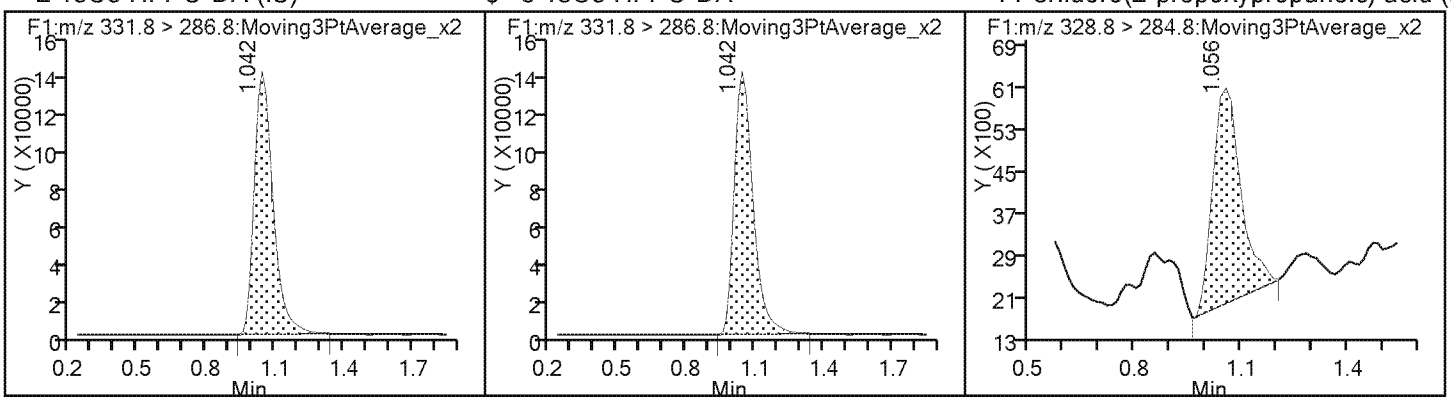
Client ID:

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

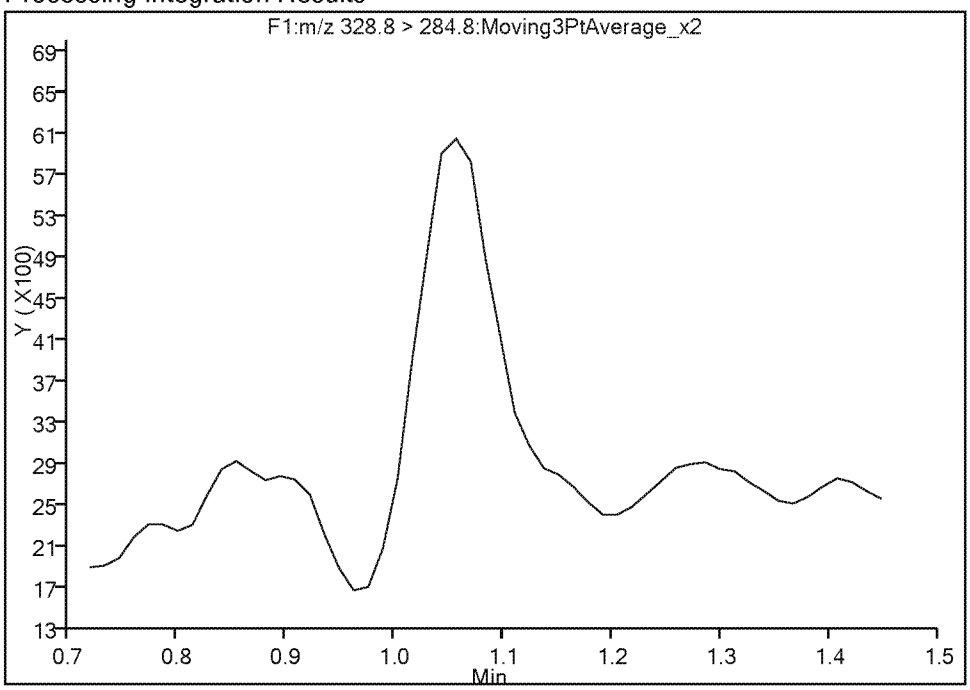
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08034.d				
Injection Date:	08-Feb-2018 13:05:38	Instrument ID:	LC_LCMS7		
Lims ID:	std001				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

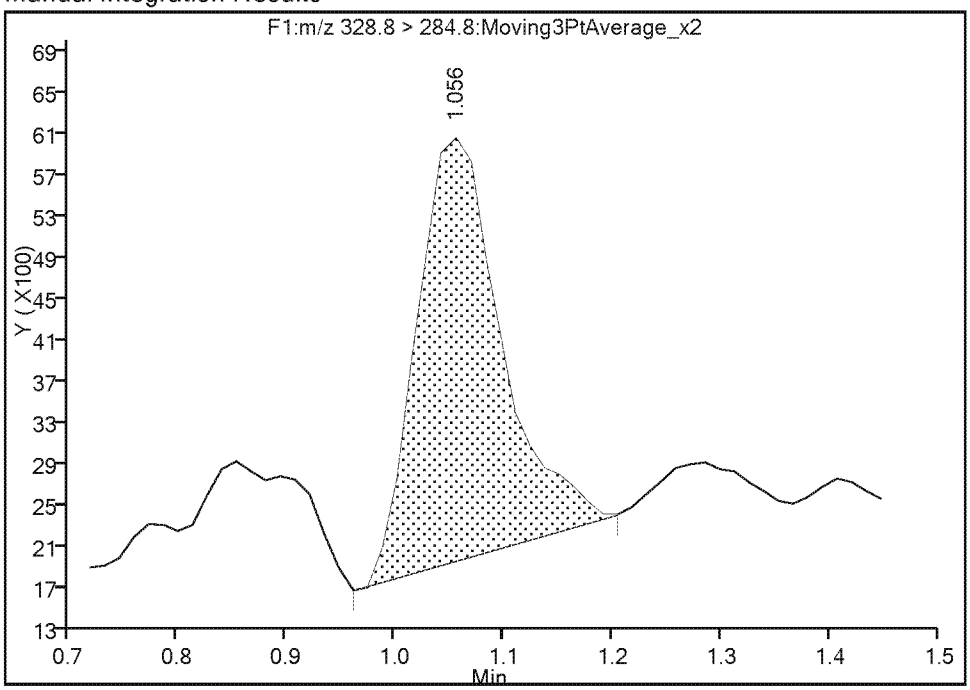
Processing Integration Results

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:

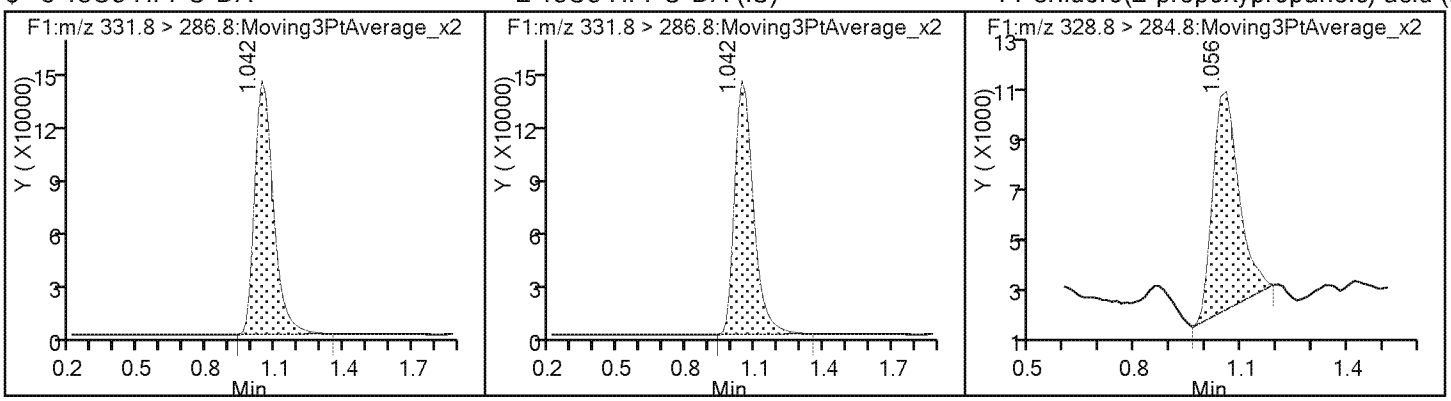
HFPO_CAL-2_00033 Amount Added: 1.00 Units: mL

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

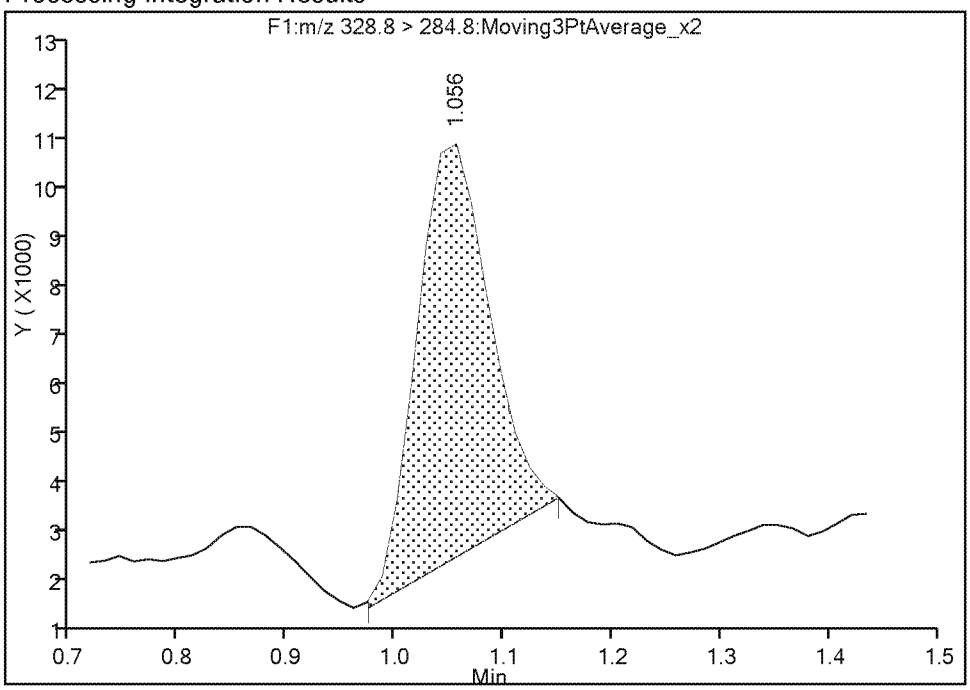
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08035.d				
Injection Date:	08-Feb-2018 13:08:52	Instrument ID:	LC_LCMS7		
Lims ID:	std002				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

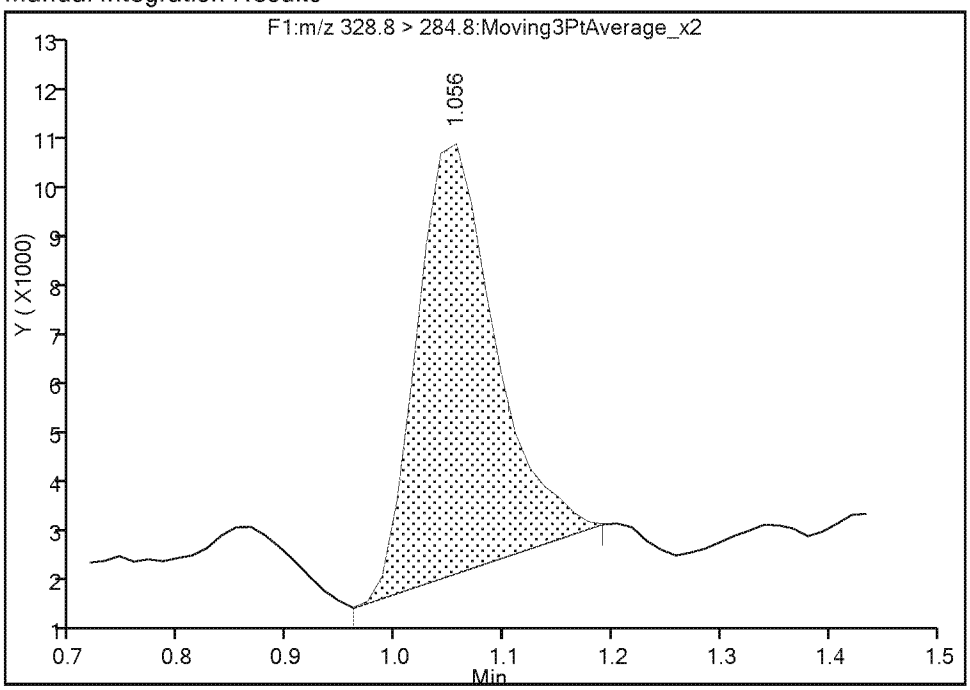
Processing Integration Results

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

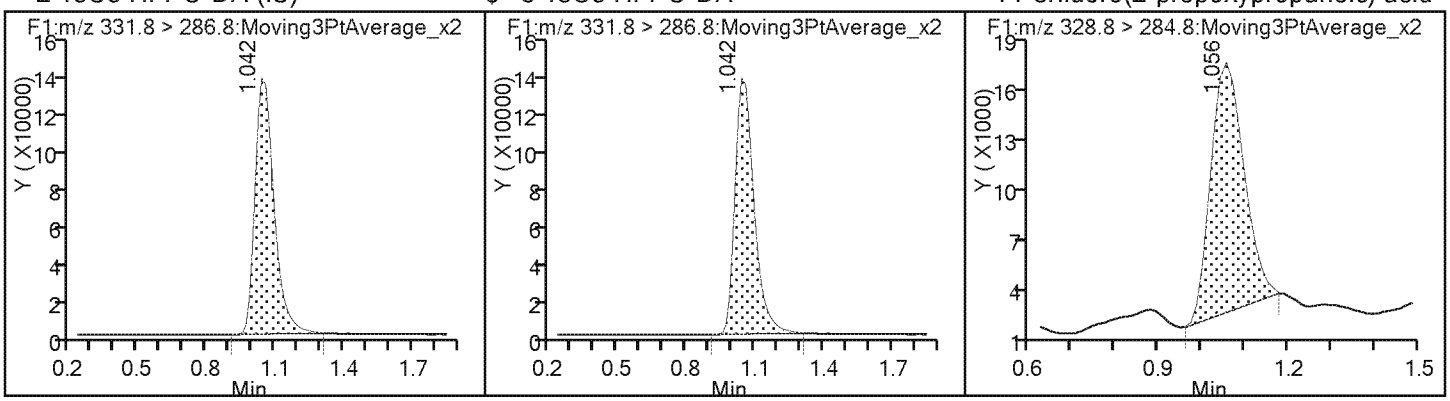
Client ID:

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

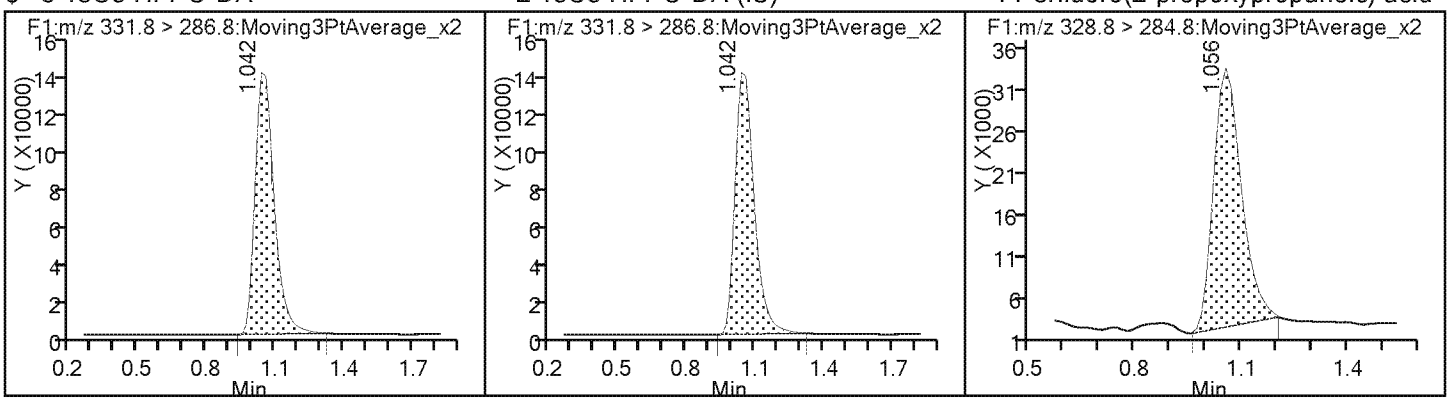
Client ID:

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

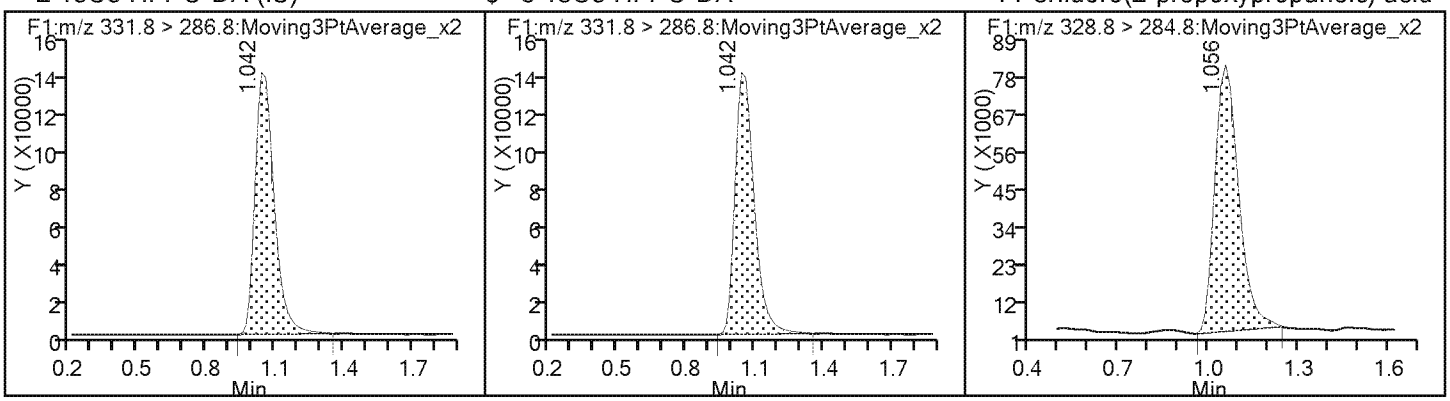
Client ID:

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

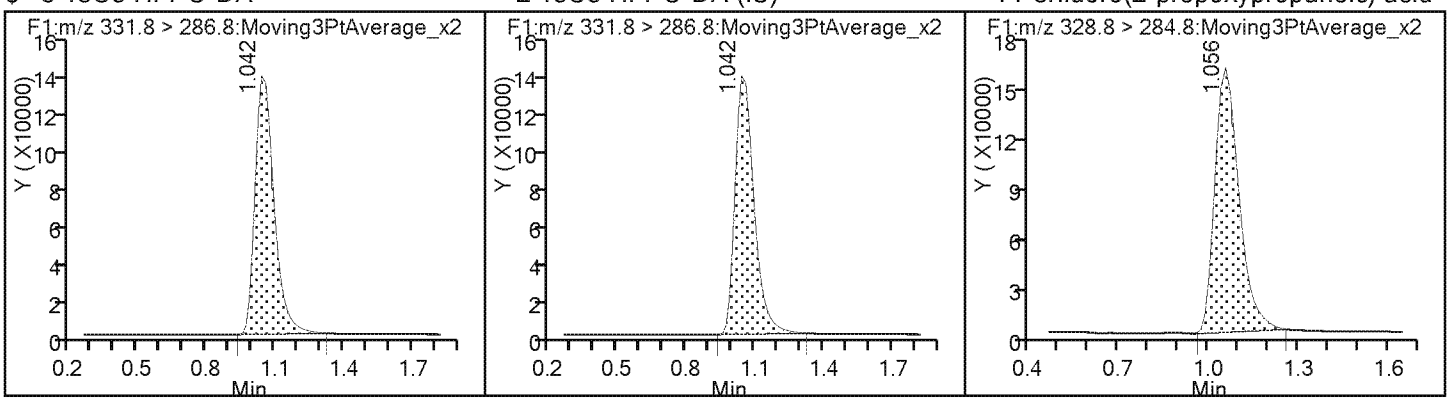
Client ID:

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

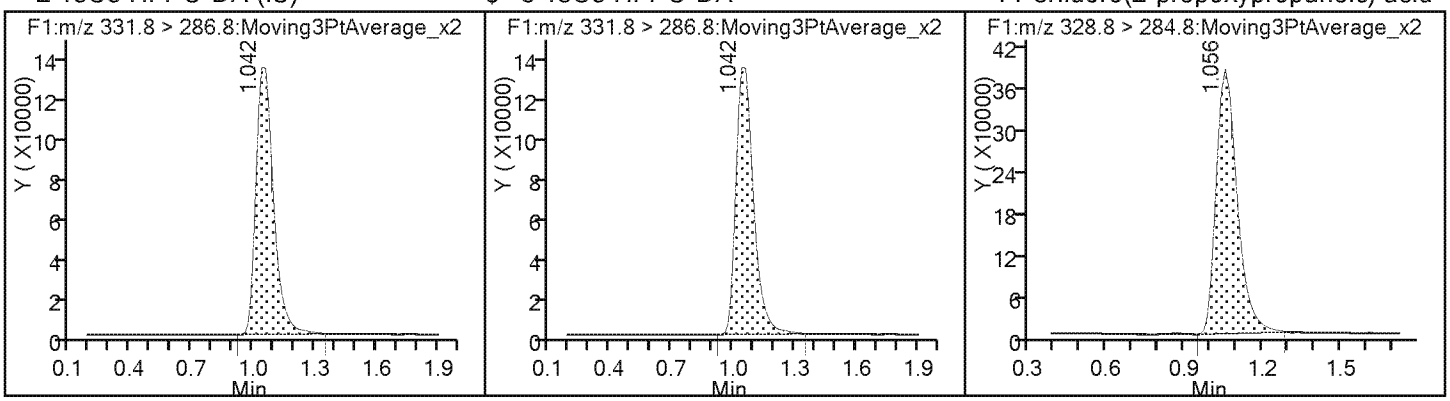
Client ID:

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

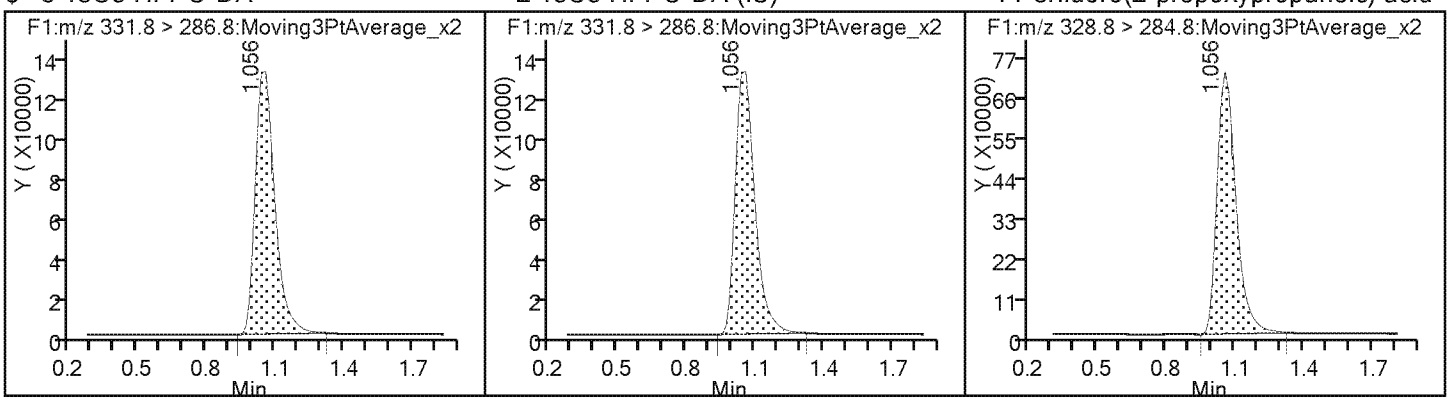
Client ID:

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

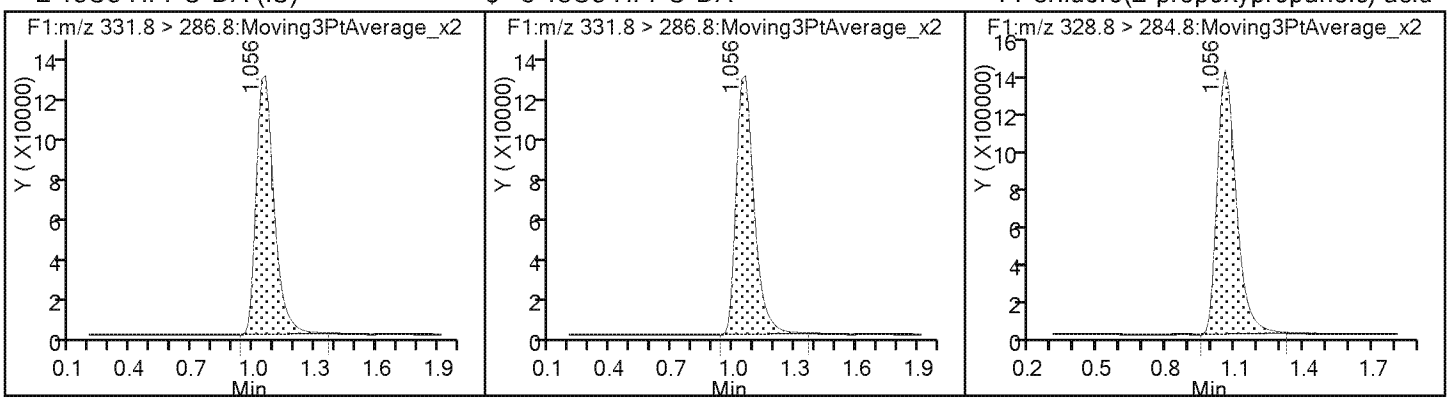
Client ID:

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.: 280-106192-1

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

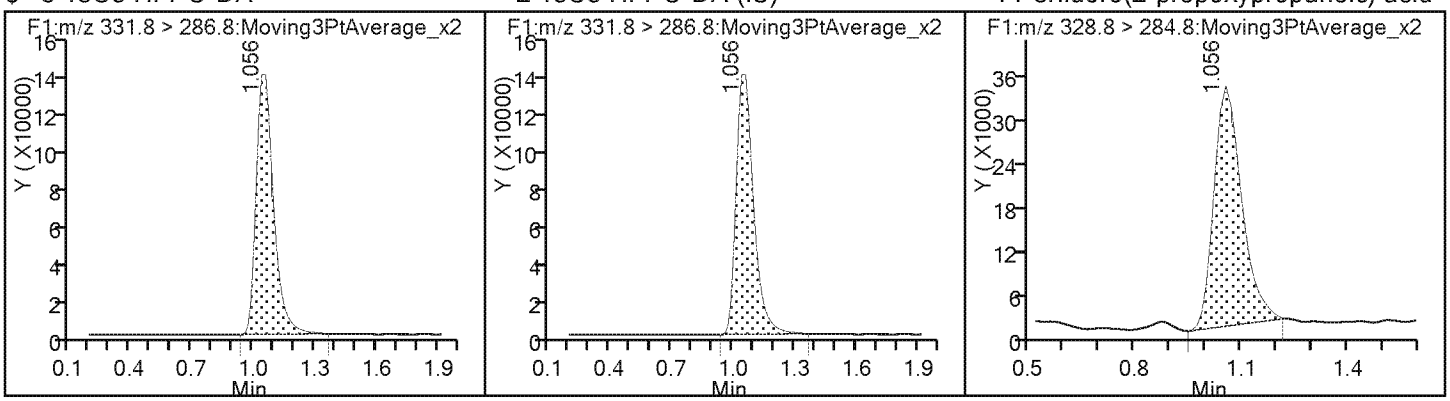
Client ID:

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.: 280-106192-1

SDG No.:

Lab Sample ID: CCV 280-405661/38 Calibration Date: 02/21/2018 09:33

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: hfpo718B21038.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.191		11.2	10.0	11.7	20.0
13C3 HFPO-DA	Ave	74660	73758		9.88	10.0	-1.2	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21038.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2018 09:33:28 ALS Bottle#: 7 Worklist Smp#: 38
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 10:06:55 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: XAWRK015

First Level Reviewer: meyera Date: 21-Feb-2018 10:06:21

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	737582	9.88	1710	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.920	1.045	-0.125		737582	10.0	1710	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	878758	11.2	162	

Reagents:

HFPO_CAL-6_00081 Amount Added: 1.00 Units: mL

Report Date: 21-Feb-2018 10:06:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21038.d

Injection Date: 21-Feb-2018 09:33:28 Instrument ID: LC_LCMS7

Lims ID: CCV L6

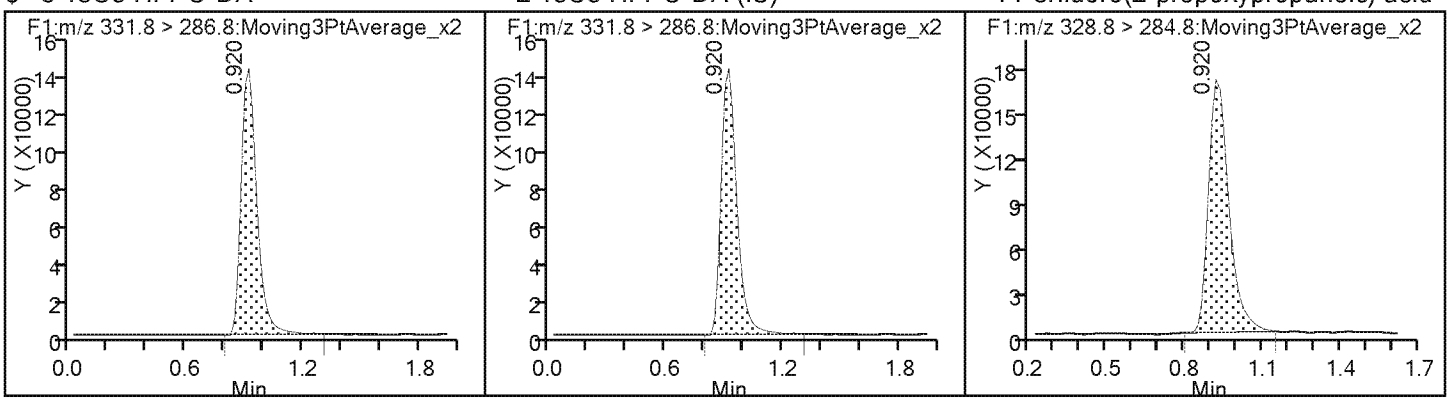
Client ID:

Operator ID: JBH ALS Bottle#: 7 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



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Lab Sample ID: CCV 280-405661/49 Calibration Date: 02/21/2018 10:09

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: hfpo718B21049.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.252		5.85	5.00	17.1	20.0
13C3 HFPO-DA	Ave	74660	73754		9.88	10.0	-1.2	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21049.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2018 10:09:23 ALS Bottle#: 6 Worklist Smp#: 49
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:06 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: 21-Feb-2018 14:15:41

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	737540	9.88	1308	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		737540	10.0	1308	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	461869	5.85	88.2	

Reagents:

HFPO_CAL-5_00081 Amount Added: 1.00 Units: mL

Report Date: 21-Feb-2018 14:19:06 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21049.d

Injection Date: 21-Feb-2018 10:09:23 Instrument ID: LC_LCMS7

Lims ID: CCV L5

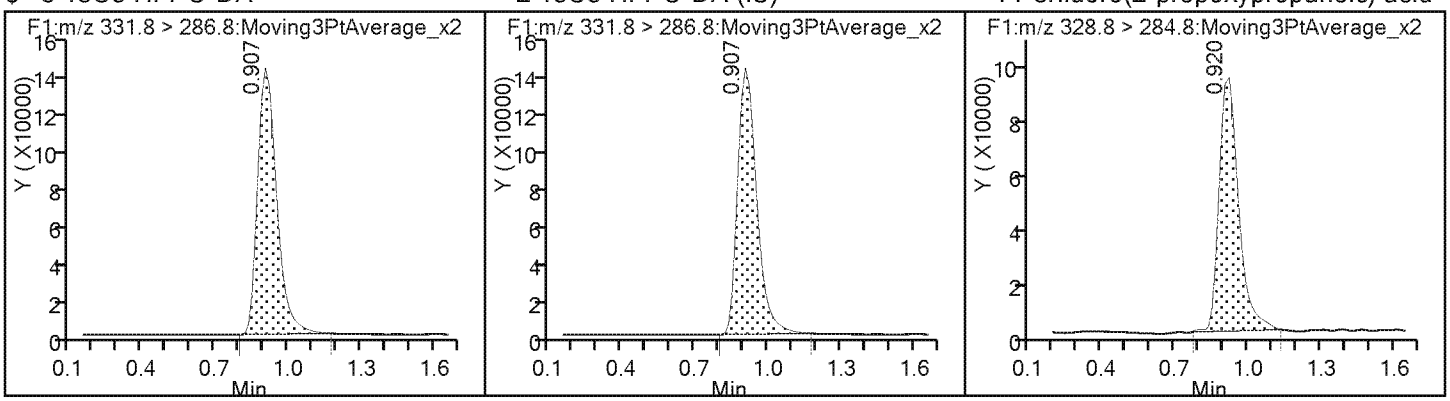
Client ID:

Operator ID: JBH ALS Bottle#: 6 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



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Lab Sample ID: CCV 280-405661/59 Calibration Date: 02/21/2018 10:41

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: hfpo718B21059.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.172		11.0	10.0	9.8	20.0
13C3 HFPO-DA	Ave	74660	75653		10.1	10.0	1.3	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21059.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2018 10:41:49 ALS Bottle#: 7 Worklist Smp#: 59
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:19 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: 21-Feb-2018 14:16:38

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	756531	10.1	1267	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		756531	10.0	1267	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.920	1.056	-0.136	1.000	886398	11.0	163	

Reagents:

HFPO_CAL-6_00081 Amount Added: 1.00 Units: mL

Report Date: 21-Feb-2018 14:19:19 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21059.d

Injection Date: 21-Feb-2018 10:41:49 Instrument ID: LC_LCMS7

Lims ID: CCV L6

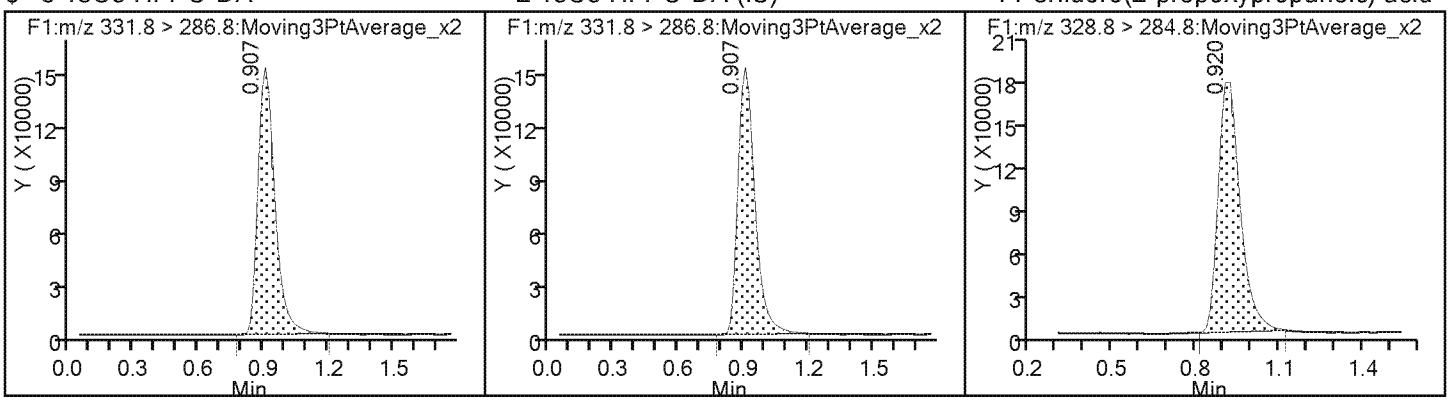
Client ID:

Operator ID: JBH ALS Bottle#: 7 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



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Lab Sample ID: CCV 280-405707/120 Calibration Date: 02/21/2018 14:00

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: hfpo718B21120.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.135		5.30	5.00	6.0	20.0
13C3 HFPO-DA	Ave	74660	69901		9.36	10.0	-6.4	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21120.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2018 14:00:47 ALS Bottle#: 6 Worklist Smp#: 120
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:19:54 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: 21-Feb-2018 14:18:24

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	699007	9.36	1442	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.961	1.045	-0.084		699007	10.0	1442	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.961	1.056	-0.095	1.000	396581	5.30	69.6	

Reagents:

HFPO_CAL-5_00081 Amount Added: 1.00 Units: mL

Report Date: 21-Feb-2018 14:19:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21120.d

Injection Date: 21-Feb-2018 14:00:47 Instrument ID: LC_LCMS7

Lims ID: CCV L5

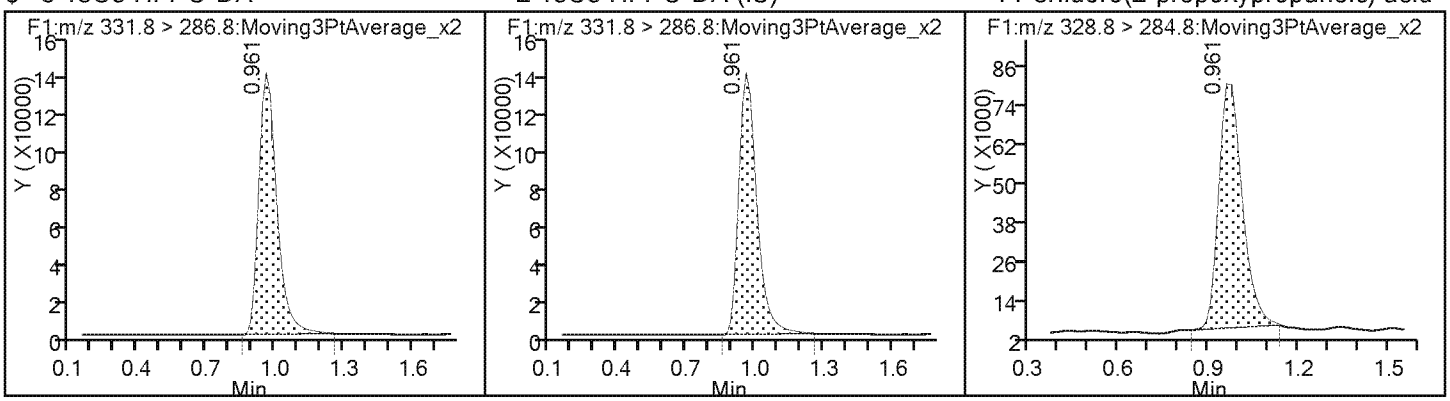
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 120

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.: 280-106192-1

SDG No.:

Lab Sample ID: CCV 280-405707/131 Calibration Date: 02/21/2018 14:36

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: hfpo718B21131.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.133		5.29	5.00	5.8	20.0
13C3 HFPO-DA	Ave	74660	79057		10.6	10.0	5.9	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21131.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2018 14:36:45 ALS Bottle#: 6 Worklist Smp#: 131
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:32 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: 21-Feb-2018 15:40:53

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	790570	10.6	1474	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		790570	10.0	1474	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	447785	5.29	72.7	

Reagents:

HFPO_CAL-5_00081 Amount Added: 1.00 Units: mL

Report Date: 21-Feb-2018 15:45:32 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21131.d

Injection Date: 21-Feb-2018 14:36:45 Instrument ID: LC_LCMS7

Lims ID: CCV L5

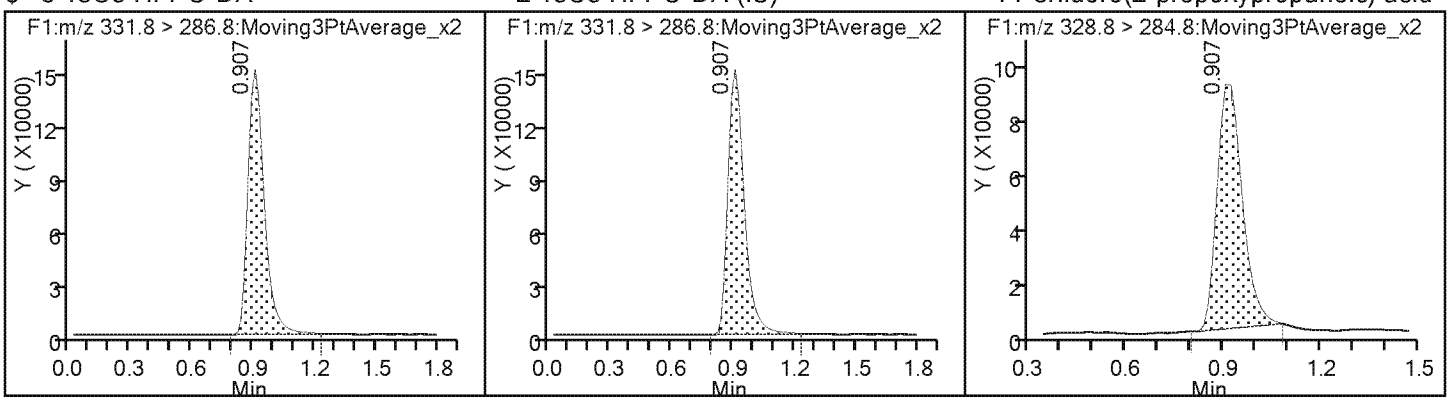
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 131

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.: 280-106192-1

SDG No.:

Lab Sample ID: CCV 280-405707/142 Calibration Date: 02/21/2018 15:12

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: hfpo718B21142.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.184		11.1	10.0	11.0	20.0
13C3 HFPO-DA	Ave	74660	78510		10.5	10.0	5.2	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21142.d
Lims ID: CCV L6
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2018 15:12:53 ALS Bottle#: 7 Worklist Smp#: 142
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L6
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:44:47

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	785096	10.5	1321	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		785096	10.0	1321	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	929657	11.1	137	

Reagents:

HFPO_CAL-6_00081 Amount Added: 1.00 Units: mL

Report Date: 21-Feb-2018 15:45:43 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21142.d

Injection Date: 21-Feb-2018 15:12:53 Instrument ID: LC_LCMS7

Lims ID: CCV L6

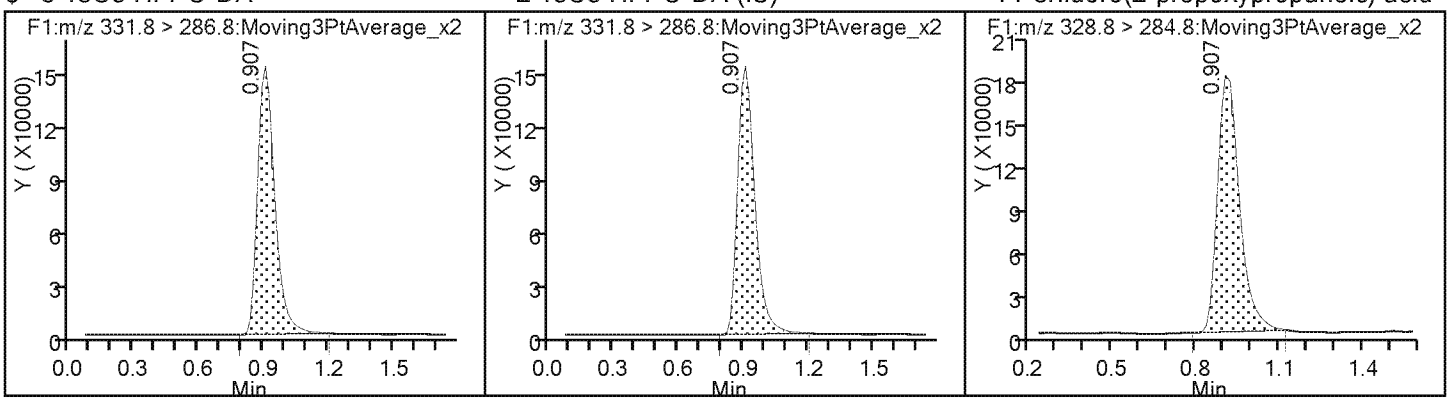
Client ID:

Operator ID: JBH ALS Bottle#: 7 Worklist Smp#: 142

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.: 280-106192-1

SDG No.:

Lab Sample ID: CCV 280-405707/149 Calibration Date: 02/21/2018 15:35

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: hfpo718B21149.d Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
HFPO-DA	Lin1		1.225		5.73	5.00	14.5	20.0
13C3 HFPO-DA	Ave	74660	77717		10.4	10.0	4.1	

FORM VII 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21149.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 21-Feb-2018 15:35:39 ALS Bottle#: 6 Worklist Smp#: 149
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7
Sublist: chrom-HFPO*sub1

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:49 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: 21-Feb-2018 15:45:09

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	777166	10.4	1228	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		777166	10.0	1228	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	476197	5.73	79.3	

Reagents:

HFPO_CAL-5_00081 Amount Added: 1.00 Units: mL

Report Date: 21-Feb-2018 15:45:49 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21149.d

Injection Date: 21-Feb-2018 15:35:39 Instrument ID: LC_LCMS7

Lims ID: CCV L5

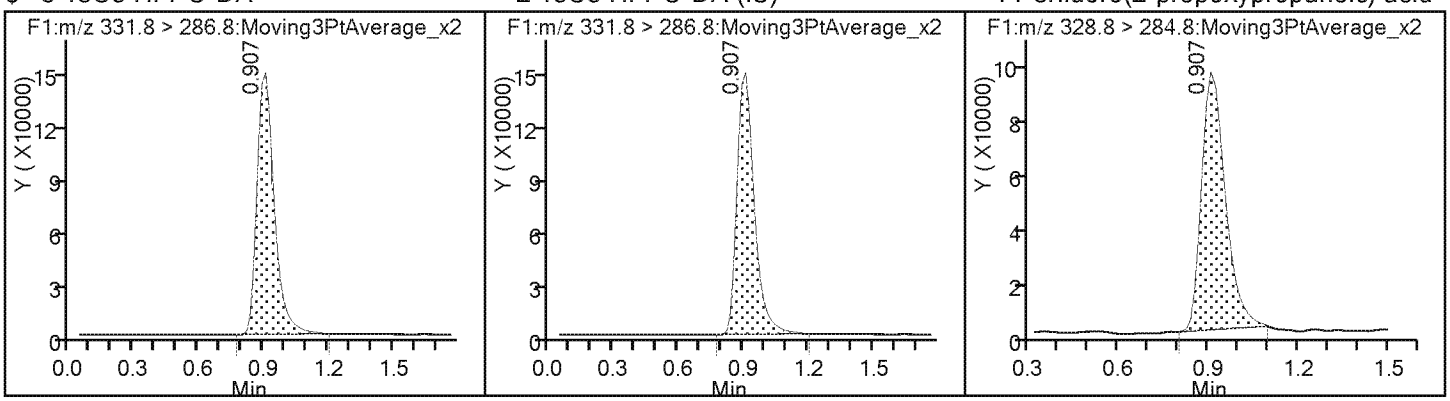
Client ID:

Operator ID: JBH ALS Bottle#: 6 Worklist Smp#: 149

Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: HFPO Limit Group: LC - 8321A_HFPO_Du

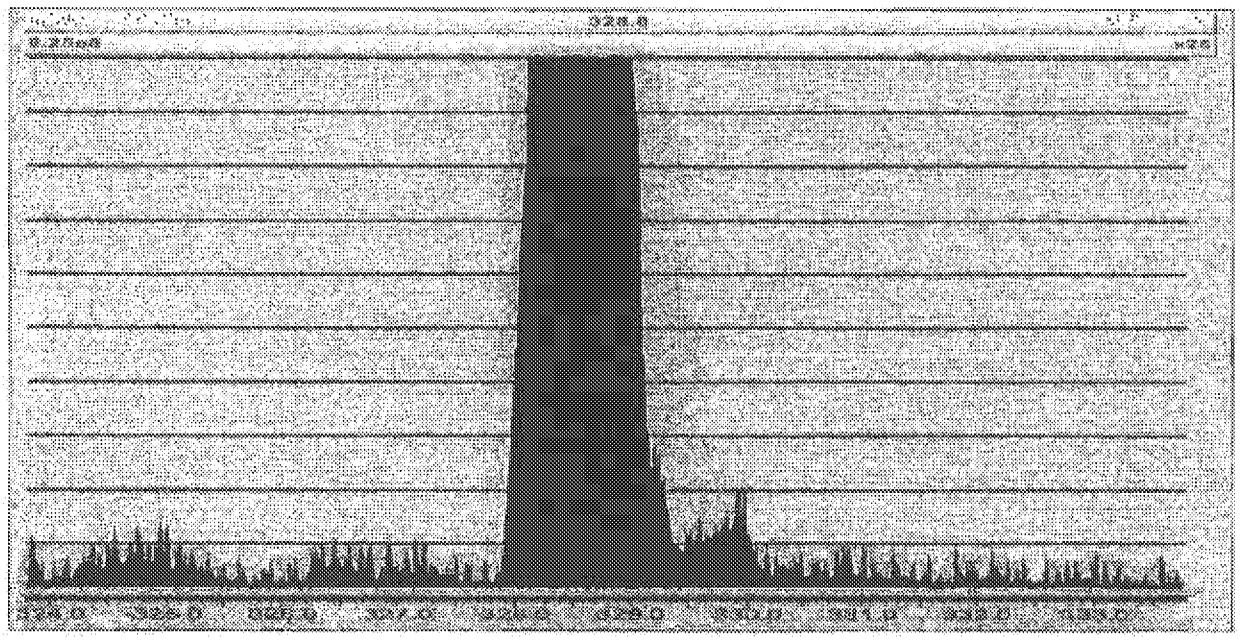
$ 3 13C3 HFPO-DA * 2 13C3 HFPO-DA (IS) 1 Perfluoro(2-propoxypropanoic) acid



File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Wednesday, February 21, 2018 07:18:40 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	794
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	

Pouring outside

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.ipr

Instrument: XEVO-TQMS#VBA453

Printed: Wednesday, February 21, 2018 07:16:40 Mountain Standard Time

Multiplier 523.81
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

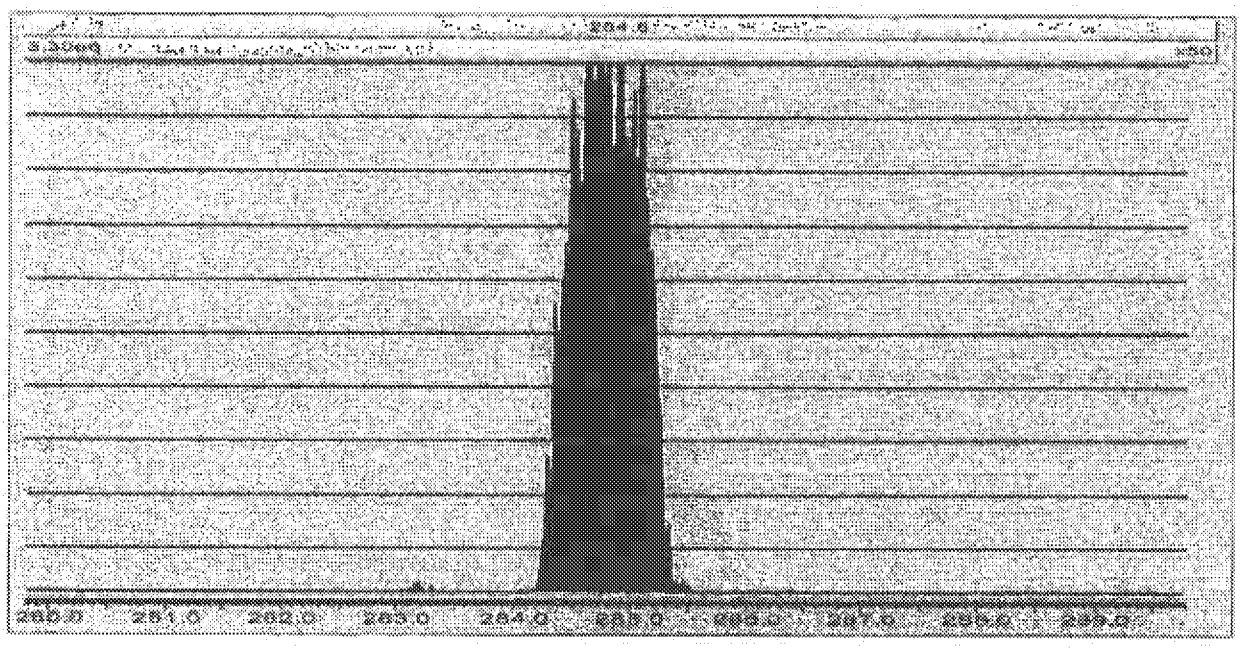
MS 2 Delay Table:

	R	delay
<=	8.000	0.005
<=	25.000	0.005
>	25.000	0.007

File: C:\MassLynx\8321.PRO\ACQUDB\HFPOMRM.lpr

Instrument: XEVO-TQMS#VBA453

Printed: Wednesday, February 21, 2018 07:19:13 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	0.54
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	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	

Rhiop
11/22/18

File: C:\MassLynx\8321.PROVACQUDBVHFPOMRM.ipr

Instrument: XEVO-TQMS/VBA463

Printed: Wednesday, February 21, 2018 07:19:13 Mountain Standard Time

Multiplier	523.81
Active Reservoir	A

Pressure Gauges

Collision Cell Pressure (mbar)	1.105268e-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

Pharmaceuticals

File: c:\masslynx\8321.pro\acqudb\hfpo.exp

Printed: Wednesday, February 21, 2018 07:19:38 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	Pnnt(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

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-405485/1-A
Matrix: Water
Lab File ID: hfpo718B21039.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 250(mL)
Date Analyzed: 02/21/2018 09:36
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.: 405661
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	83		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21039.d
Lims ID: MB 280-405485/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Feb-2018 09:36:43 ALS Bottle#: 43 Worklist Smp#: 39
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-405485/1-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:29

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	619098	8.29	1454	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		619098	10.0	1454	

Report Date: 21-Feb-2018 14:18:53 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21039.d

Injection Date: 21-Feb-2018 09:36:43 Instrument ID: LC_LCMS7

Lims ID: MB 280-405485/1-A

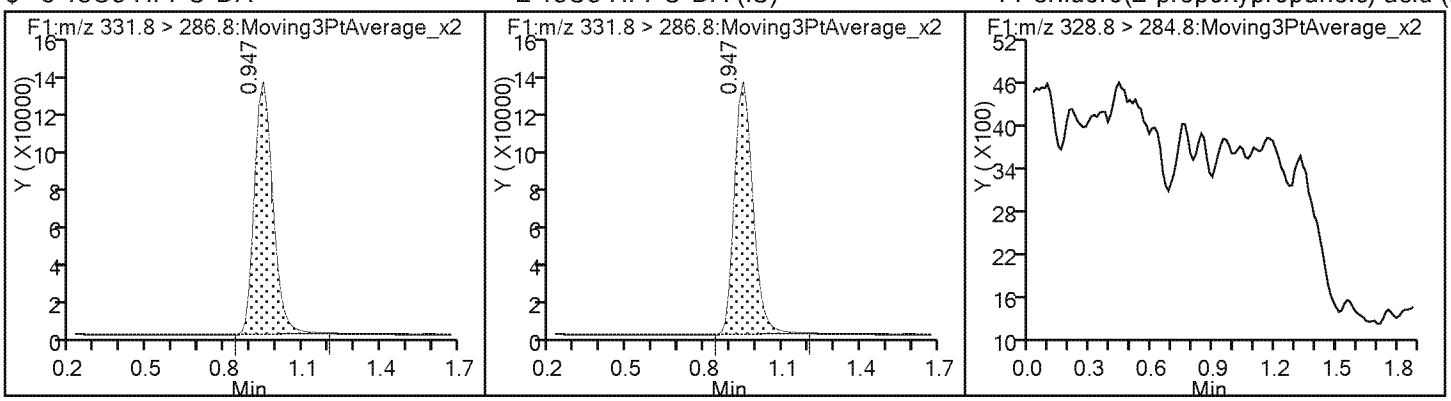
Client ID:

Operator ID: JBH ALS Bottle#: 43 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 (ND)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21039.d
Lims ID: MB 280-405485/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Feb-2018 09:36:43 ALS Bottle#: 43 Worklist Smp#: 39
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-405485/1-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.29	82.92

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 280-405589/1-A
Matrix: Water
Lab File ID: hfpo718B21121.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 250(mL)
Date Analyzed: 02/21/2018 14:04
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.: 405707
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	91		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21121.d
Lims ID: MB 280-405589/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Feb-2018 14:04:01 ALS Bottle#: 28 Worklist Smp#: 121
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-405589/1-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 14:18:31

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.947	1.045	-0.098	1.000	676645	9.06	961	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.947	1.045	-0.098		676645	10.0	961	

Report Date: 21-Feb-2018 15:45:23 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21121.d

Injection Date: 21-Feb-2018 14:04:01 Instrument ID: LC_LCMS7

Lims ID: MB 280-405589/1-A

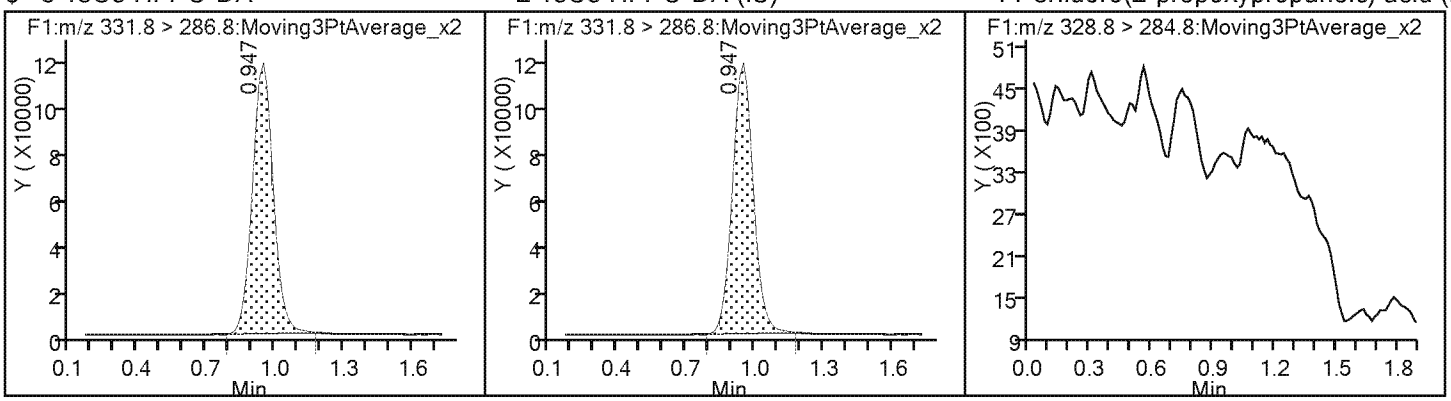
Client ID:

Operator ID: JBH ALS Bottle#: 28 Worklist Smp#: 121

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\20180221-67419.b\hfpo718B21121.d
Lims ID: MB 280-405589/1-A
Client ID:
Sample Type: MB
Inject. Date: 21-Feb-2018 14:04:01 ALS Bottle#: 28 Worklist Smp#: 121
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB280-405589/1-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 14:18:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.06	90.63

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
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

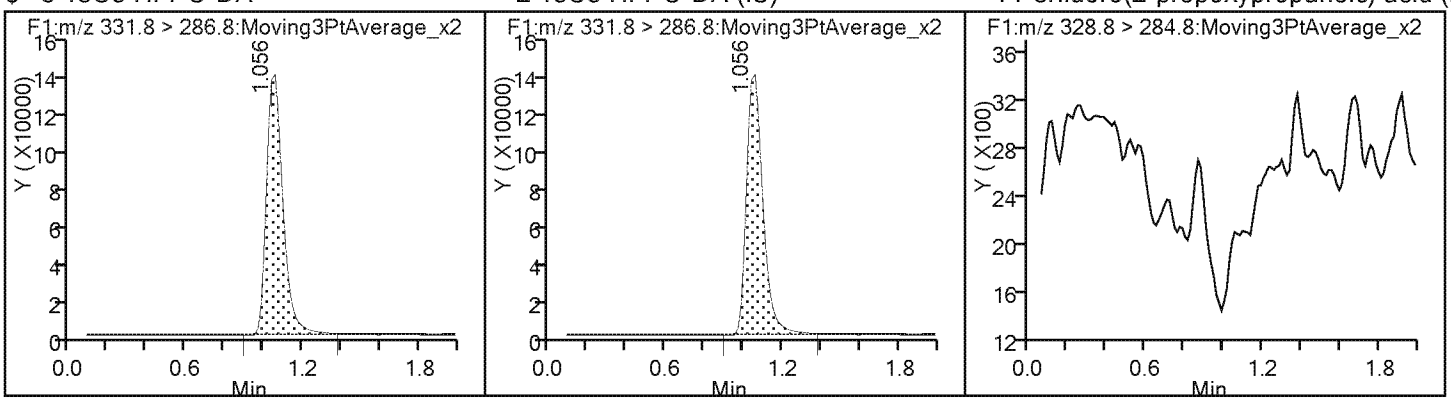
Client ID:

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.: 280-106192-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-405485/2-A
Matrix: Water
Lab File ID: hfpo718B21040.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 250(mL)
Date Analyzed: 02/21/2018 09:39
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.: 405661
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.202		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\20180221-67419.b\hfpo718B21040.d
Lims ID: LCS 280-405485/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Feb-2018 09:39:59 ALS Bottle#: 44 Worklist Smp#: 40
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-405485/2-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:31

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	633189	8.48	1338	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		633189	10.0	1338	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	680974	10.1	134	

Report Date: 21-Feb-2018 14:18:54 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21040.d

Injection Date: 21-Feb-2018 09:39:59 Instrument ID: LC_LCMS7

Lims ID: LCS 280-405485/2-A

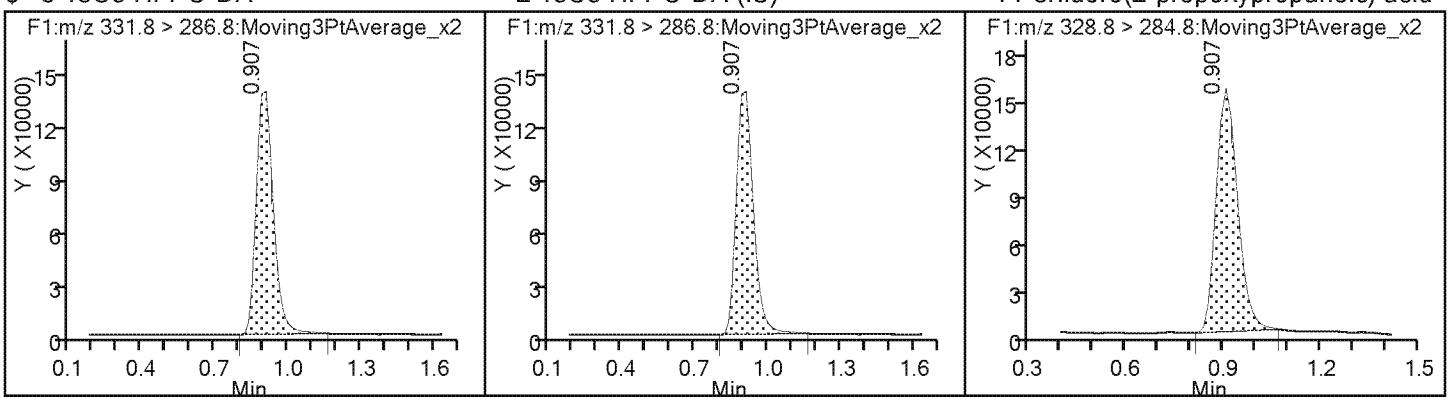
Client ID:

Operator ID: JBH ALS Bottle#: 44 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\20180221-67419.b\hfpo718B21040.d
Lims ID: LCS 280-405485/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Feb-2018 09:39:59 ALS Bottle#: 44 Worklist Smp#: 40
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-405485/2-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.48	84.81

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 280-405589/2-A
Matrix: Water
Lab File ID: hfpo718B21122.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 250(mL)
Date Analyzed: 02/21/2018 14:07
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.: 405707
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	94		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21122.d
Lims ID: LCS 280-405589/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Feb-2018 14:07:17 ALS Bottle#: 29 Worklist Smp#: 122
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-405589/2-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 15:40:12

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	703388	9.42	1526	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		703388	10.0	1526	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	1.056	-0.163	1.000	796661	10.6	119	

Report Date: 21-Feb-2018 15:45:24 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21122.d

Injection Date: 21-Feb-2018 14:07:17 Instrument ID: LC_LCMS7

Lims ID: LCS 280-405589/2-A

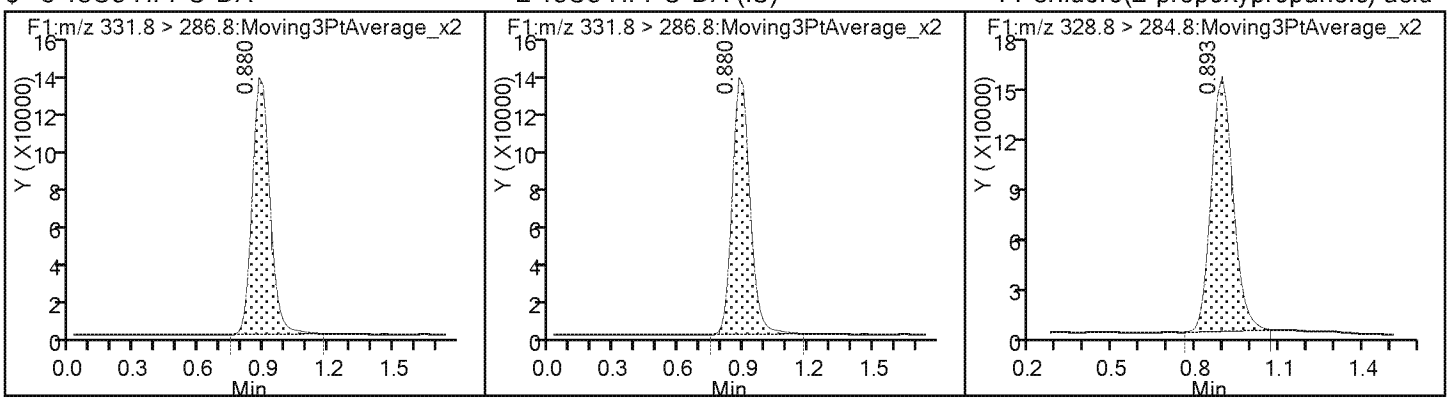
Client ID:

Operator ID: JBH ALS Bottle#: 29 Worklist Smp#: 122

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\20180221-67419.b\hfpo718B21122.d
Lims ID: LCS 280-405589/2-A
Client ID:
Sample Type: LCS
Inject. Date: 21-Feb-2018 14:07:17 ALS Bottle#: 29 Worklist Smp#: 122
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS280-405589/2-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 15:40:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.42	94.21

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-405485/4-A
Matrix: Water
Lab File ID: hfpo718B21042.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 250(mL)
Date Analyzed: 02/21/2018 09:46
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.: 405661
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.189		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	90		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21042.d
Lims ID: LCSD 280-405485/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 21-Feb-2018 09:46:34 ALS Bottle#: 46 Worklist Smp#: 42
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-405485/4-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:36

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.907	1.045	-0.138	1.000	669991	8.97	1472	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.907	1.045	-0.138		669991	10.0	1472	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.907	1.056	-0.149	1.000	677324	9.47	126	

Report Date: 21-Feb-2018 14:18:57 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21042.d

Injection Date: 21-Feb-2018 09:46:34 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-405485/4-A

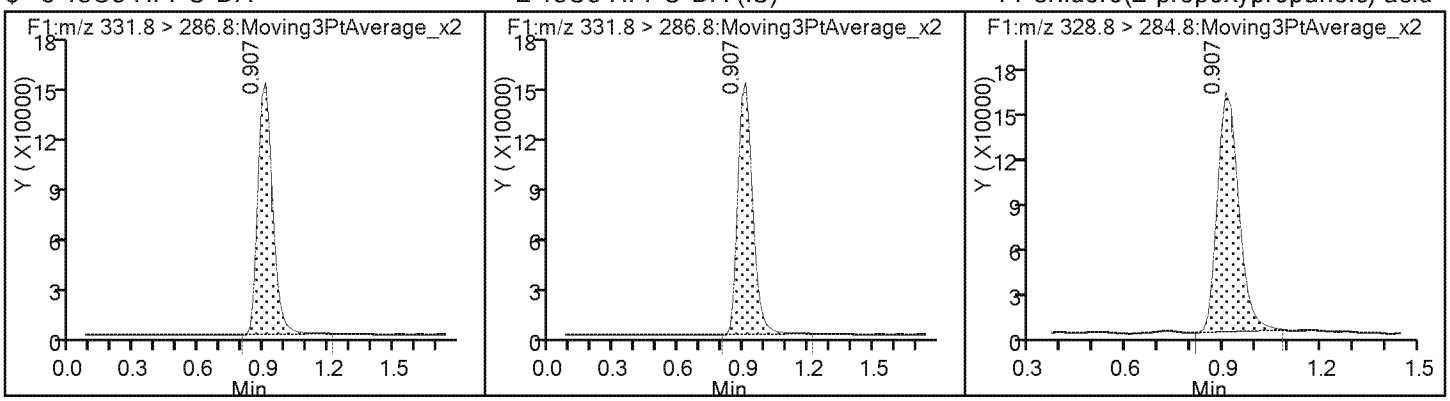
Client ID:

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\20180221-67419.b\hfpo718B21042.d
Lims ID: LCSD 280-405485/4-A
Client ID:
Sample Type: LCSD
Inject. Date: 21-Feb-2018 09:46:34 ALS Bottle#: 46 Worklist Smp#: 42
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-405485/4-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.97	89.74

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 280-405589/3-A
Matrix: Water
Lab File ID: hfpo718B21123.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 250(mL)
Date Analyzed: 02/21/2018 14:10
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.: 405707
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.204		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21123.d
Lims ID: LCSD 280-405589/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 21-Feb-2018 14:10:34 ALS Bottle#: 30 Worklist Smp#: 123
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-405589/3-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 15:40:14

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	666828	8.93	1384	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		666828	10.0	1384	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	1.056	-0.163	1.000	725931	10.2	128	

Report Date: 21-Feb-2018 15:45:25 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21123.d

Injection Date: 21-Feb-2018 14:10:34 Instrument ID: LC_LCMS7

Lims ID: LCSD 280-405589/3-A

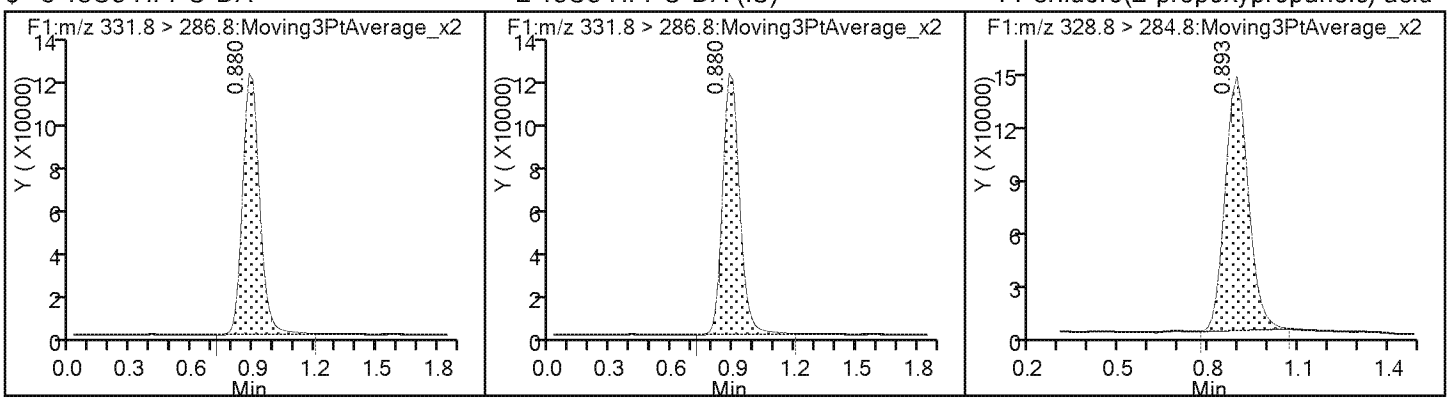
Client ID:

Operator ID: JBH ALS Bottle#: 30 Worklist Smp#: 123

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\20180221-67419.b\hfpo718B21123.d
Lims ID: LCSD 280-405589/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 21-Feb-2018 14:10:34 ALS Bottle#: 30 Worklist Smp#: 123
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCSD280-405589/3-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 15:40:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.93	89.32

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID:
Lab Sample ID: LLCS 280-405485/3-A
Matrix: Water
Lab File ID: hfpo718B21041.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/20/2018 10:22
Sample wt/vol: 250(mL)
Date Analyzed: 02/21/2018 09:43
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.: 405661
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0190		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21041.d
Lims ID: LLCS 280-405485/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 21-Feb-2018 09:43:17 ALS Bottle#: 45 Worklist Smp#: 41
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-405485/3-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:34

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.893	1.045	-0.152	1.000	661397	8.86	1630	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.893	1.045	-0.152		661397	10.0	1630	
1 Perfluoro(2-propoxypropanoic) acid								M
328.8 > 284.8	0.893	1.056	-0.163	1.000	69292	0.9509	13.2	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 21-Feb-2018 14:18:55 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21041.d

Injection Date: 21-Feb-2018 09:43:17 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-405485/3-A

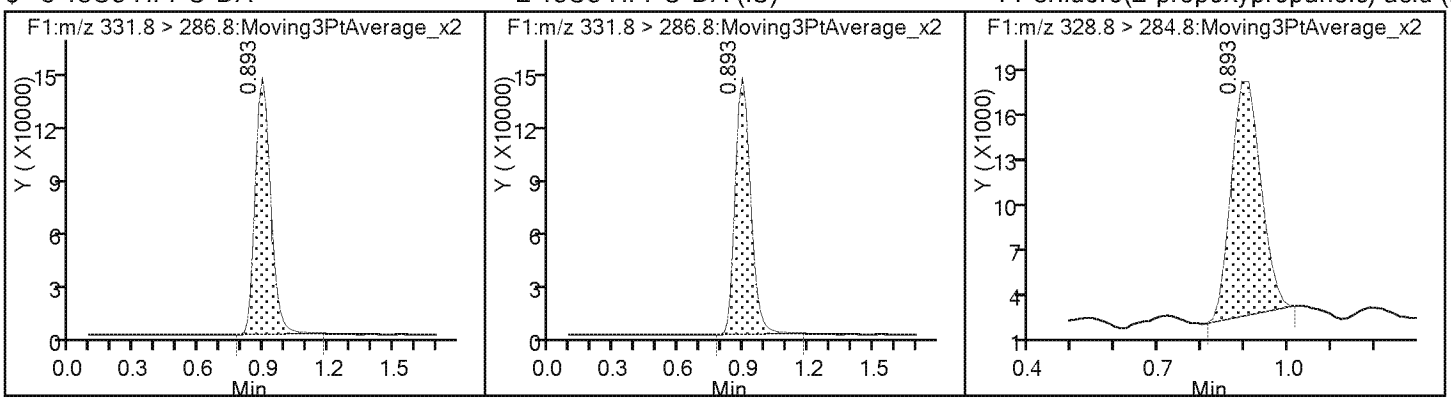
Client ID:

Operator ID: JBH ALS Bottle#: 45 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 (M)



TestAmerica Denver
Recovery Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21041.d
Lims ID: LLCS 280-405485/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 21-Feb-2018 09:43:17 ALS Bottle#: 45 Worklist Smp#: 41
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-405485/3-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 14:18:24 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: 21-Feb-2018 14:14:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	8.86	88.59

Manual Integration/User Assign Peak Report

TestAmerica Denver

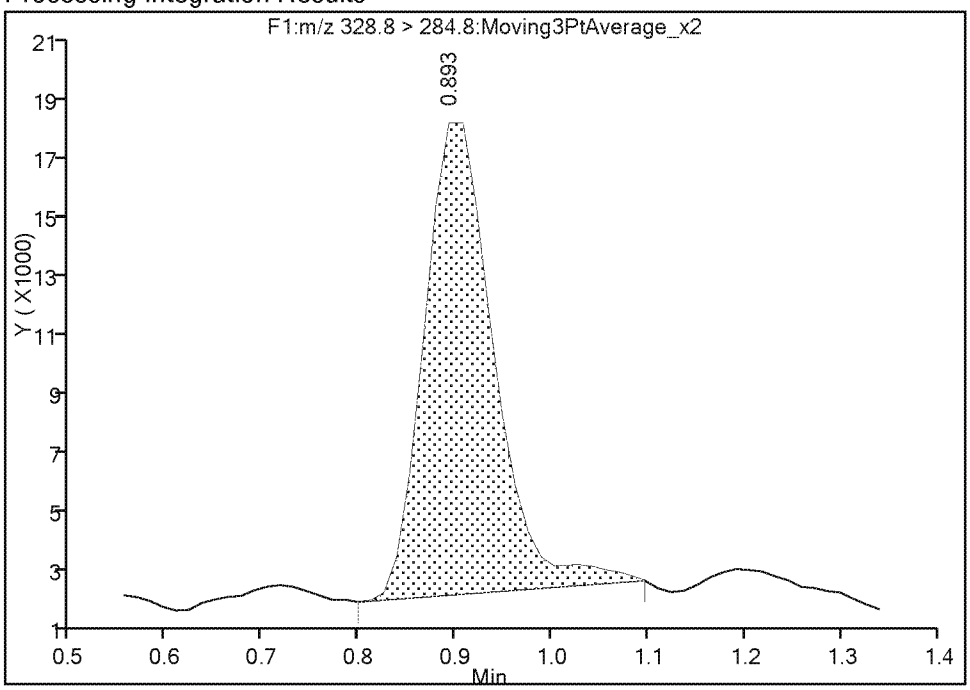
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21041.d				
Injection Date:	21-Feb-2018 09:43:17	Instrument ID:	LC_LCMS7		
Lims ID:	LLCS 280-405485/3-A				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	45	Worklist Smp#:	41
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

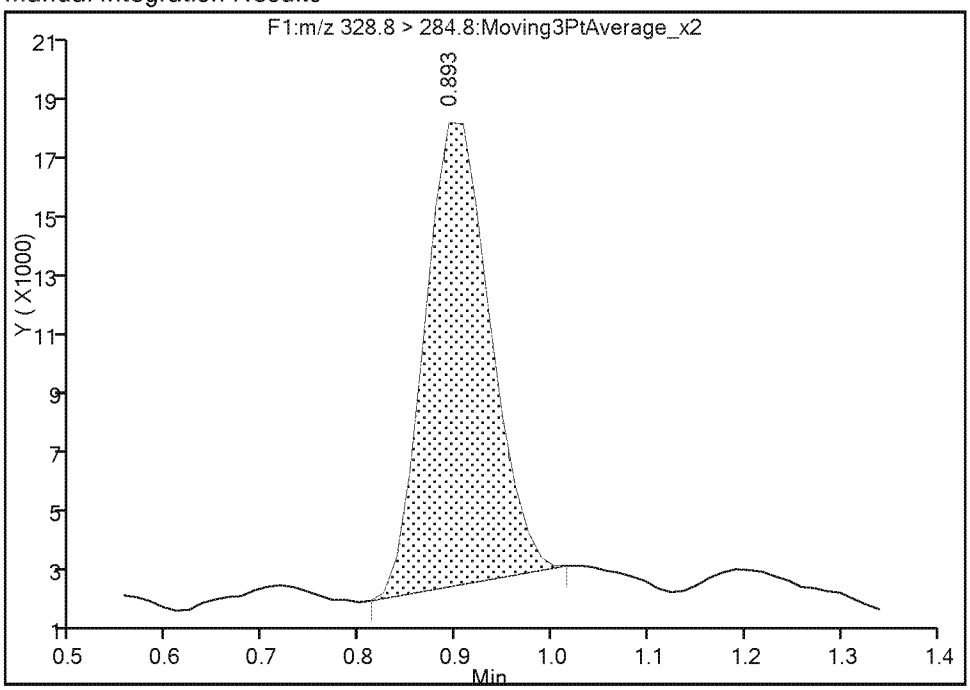
Processing Integration Results

RT: 0.89
Area: 75428
Amount: 1.038076
Amount Units: ug/l



Manual Integration Results

RT: 0.89
Area: 69292
Amount: 0.950867
Amount Units: ug/l



Reviewer: meyera, 21-Feb-2018 14:14:44

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID:
Lab Sample ID: LLCS 280-405589/4-A
Matrix: Water
Lab File ID: hfpo718B21124.d
Analysis Method: 8321A
Date Collected:
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 250(mL)
Date Analyzed: 02/21/2018 14:13
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.: 405707
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
13252-13-6	HFPO-DA	0.0166		0.010	

CAS NO.	SURROGATE	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	91		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21124.d
Lims ID: LLCS 280-405589/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 21-Feb-2018 14:13:49 ALS Bottle#: 31 Worklist Smp#: 124
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-405589/4-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 15:40:17

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	678982	9.09	1692	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		678982	10.0	1692	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.880	1.056	-0.176	1.000	62291	0.8284	9.6	

Report Date: 21-Feb-2018 15:45:26 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21124.d

Injection Date: 21-Feb-2018 14:13:49 Instrument ID: LC_LCMS7

Lims ID: LLCS 280-405589/4-A

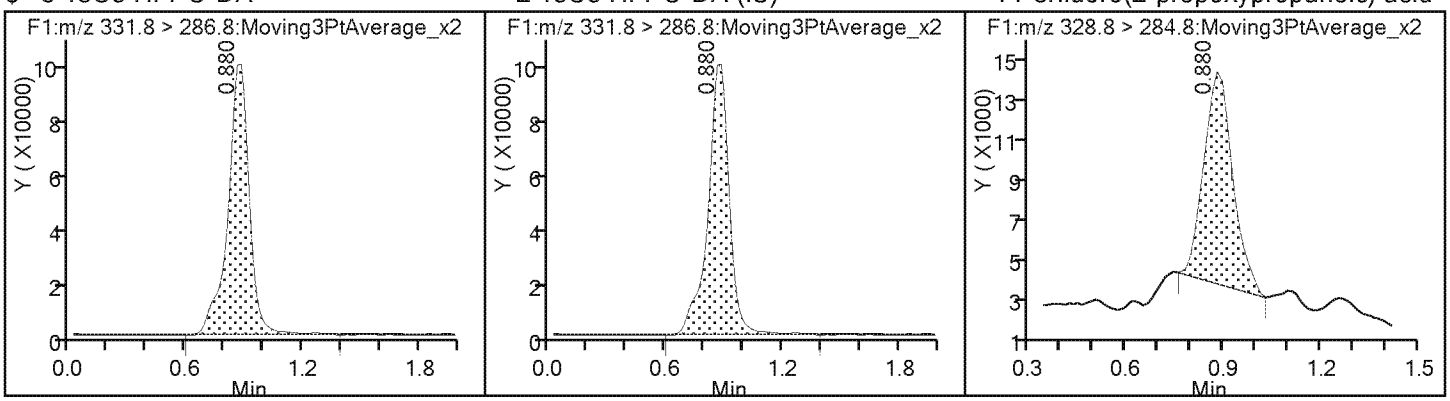
Client ID:

Operator ID: JBH ALS Bottle#: 31 Worklist Smp#: 124

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\20180221-67419.b\hfpo718B21124.d
Lims ID: LLCS 280-405589/4-A
Client ID:
Sample Type: LLCS
Inject. Date: 21-Feb-2018 14:13:49 ALS Bottle#: 31 Worklist Smp#: 124
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LLCS280-405589/4-A
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:09 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: 21-Feb-2018 15:40:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.09	90.94

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
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

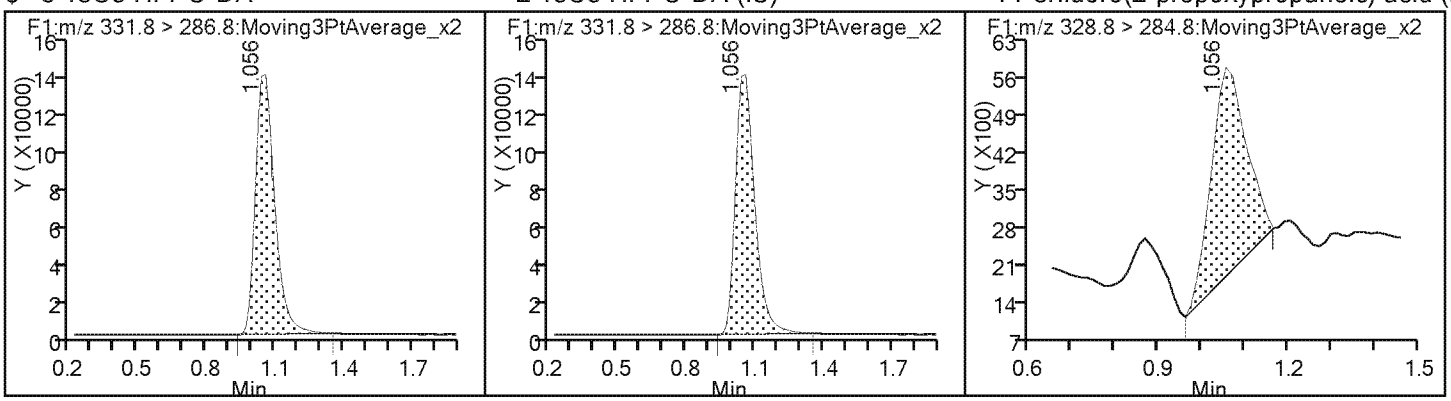
Client ID:

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

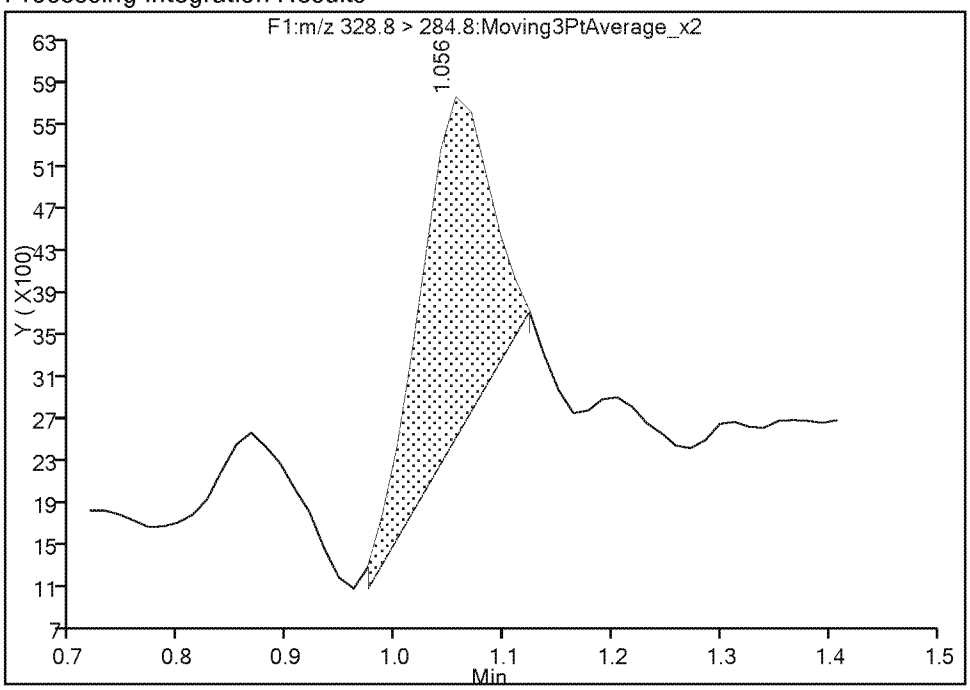
Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180208-67079.b\hfpo718B08044.d				
Injection Date:	08-Feb-2018 13:38:01	Instrument ID:	LC_LCMS7		
Lims ID:	DLCK				
Client ID:					
Operator ID:	JBH	ALS Bottle#:	2	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	HFPO	Limit Group:	LC - 8321A_HFPO_Du		
Column:		Detector	F1:MRM		

1 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

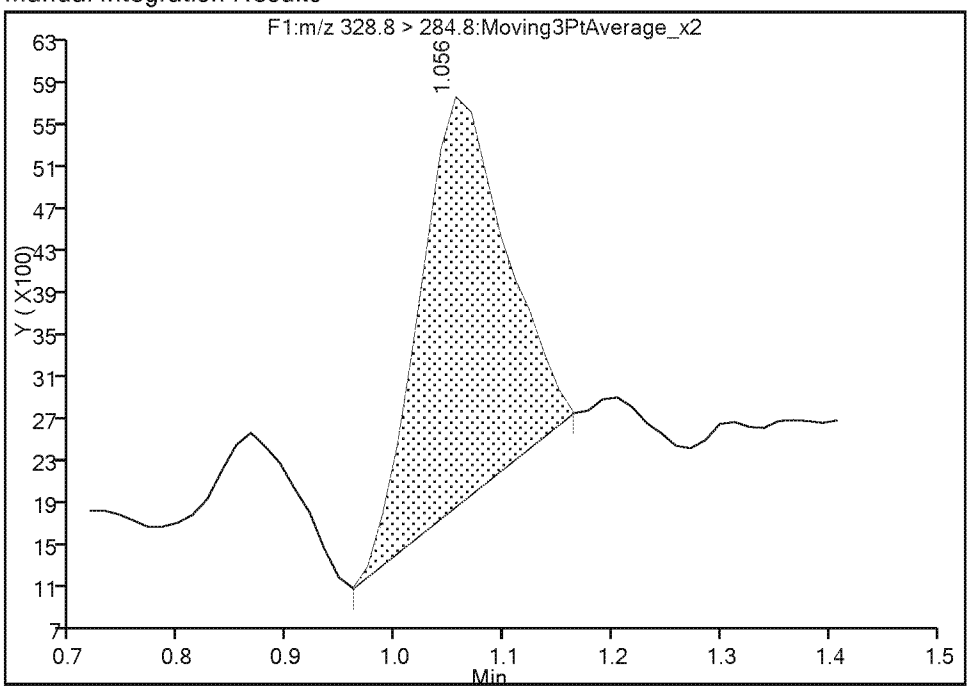
Processing Integration Results

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.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3615PNEBR-W1-1-0207 18 MS
Lab Sample ID: 280-106192-28 MS
Matrix: Water
Lab File ID: hfpo718B21146.d
Analysis Method: 8321A
Date Collected: 02/07/2018 17:09
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 282.6(mL)
Date Analyzed: 02/21/2018 15:25
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.: 405707
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	93		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21146.d
Lims ID: 280-106192-C-28-A MS
Client ID: FAY-D-3615PNEBR-W1-1-020718
Sample Type: MS
Inject. Date: 21-Feb-2018 15:25:53 ALS Bottle#: 14 Worklist Smp#: 146
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-28-AMS
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:45:00

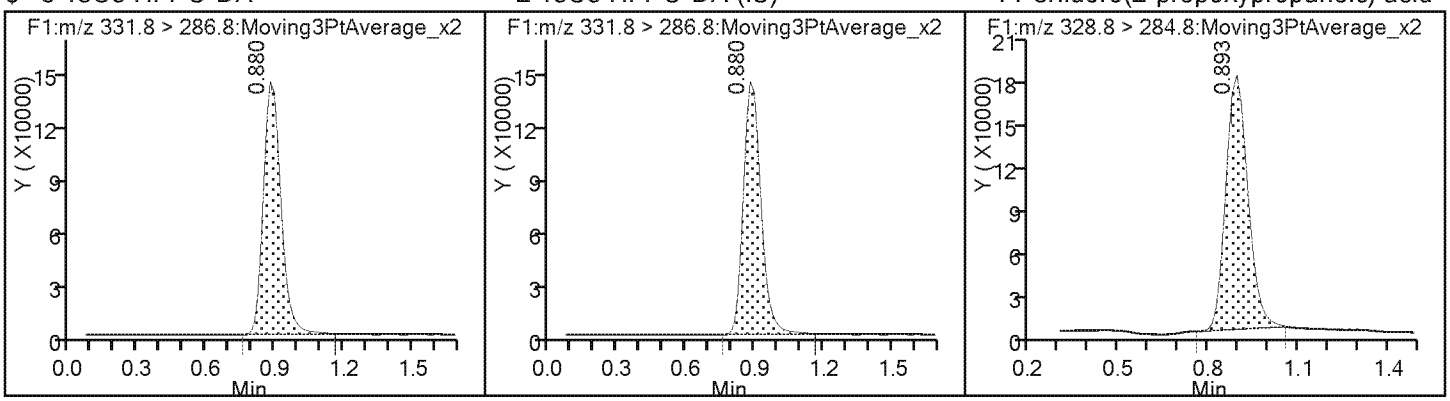
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.880	1.045	-0.165	1.000	697581	9.34	1180	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.880	1.045	-0.165		697581	10.0	1180	
1 Perfluoro(2-propoxypropanoic) acid								
328.8 > 284.8	0.893	1.056	-0.163	1.000	862647	11.6	89.0	

Report Date: 21-Feb-2018 15:45:47 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21146.d				
Injection Date:	21-Feb-2018 15:25:53	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-C-28-A MS				
Client ID:	FAY-D-3615PNEBR-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	14	Worklist Smp#:	146
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\20180221-67419.b\hfpo718B21146.d
Lims ID: 280-106192-C-28-A MS
Client ID: FAY-D-3615PNEBR-W1-1-020718
Sample Type: MS
Inject. Date: 21-Feb-2018 15:25:53 ALS Bottle#: 14 Worklist Smp#: 146
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-C-28-AMS
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:45:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.34	93.43

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver
Job No.: 280-106192-1
SDG No.:
Client Sample ID: FAY-D-3615PNEBR-W1-1-0207 18 DU
Lab Sample ID: 280-106192-28 DU
Matrix: Water
Lab File ID: hfpo718B21145.d
Analysis Method: 8321A
Date Collected: 02/07/2018 17:09
Extraction Method: 3535
Date Extracted: 02/20/2018 21:07
Sample wt/vol: 269.3(mL)
Date Analyzed: 02/21/2018 15:22
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.: 405707
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	94		50-200

FORM I 8321A

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21145.d
Lims ID: 280-106192-B-28-A DU
Client ID: FAY-D-3615PNEBR-W1-1-020718
Sample Type: DU
Inject. Date: 21-Feb-2018 15:22:39 ALS Bottle#: 13 Worklist Smp#: 145
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-28-ADU
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:44:58

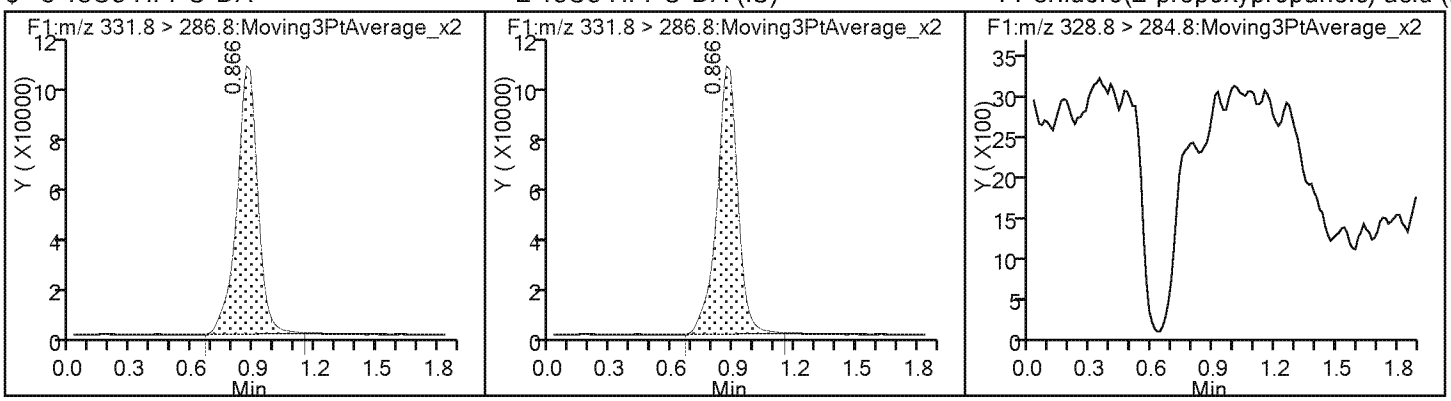
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ug/l	S/N	Flags
$ 3 13C3 HFPO-DA								
331.8 > 286.8	0.866	1.045	-0.179	1.000	699904	9.37	915	
* 2 13C3 HFPO-DA (IS)								
331.8 > 286.8	0.866	1.045	-0.179		699904	10.0	915	

Report Date: 21-Feb-2018 15:45:46 Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Denver

Data File:	\\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\hfpo718B21145.d				
Injection Date:	21-Feb-2018 15:22:39	Instrument ID:	LC_LCMS7		
Lims ID:	280-106192-B-28-A DU				
Client ID:	FAY-D-3615PNEBR-W1-1-020718				
Operator ID:	JBH	ALS Bottle#:	13	Worklist Smp#:	145
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\20180221-67419.b\hfpo718B21145.d
Lims ID: 280-106192-B-28-A DU
Client ID: FAY-D-3615PNEBR-W1-1-020718
Sample Type: DU
Inject. Date: 21-Feb-2018 15:22:39 ALS Bottle#: 13 Worklist Smp#: 145
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 280-106192-B-28-ADU
Misc. Info.: HFPO18B21
Operator ID: JBH Instrument ID: LC_LCMS7

Method: \\ChromNA\Denver\ChromData\LC_LCMS7\20180221-67419.b\HFPO.m
Limit Group: LC - 8321A_HFPO_Du
Last Update: 21-Feb-2018 15:45:43 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: 21-Feb-2018 15:44:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 3 13C3 HFPO-DA	10.0	9.37	93.75

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106192-1

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.: 280-106192-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/21/2018 09:33

Analysis Batch Number: 405661 End Date: 02/21/2018 10:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-405661/38		02/21/2018 09:33	1	hfpo718B21038.d	Synergi Hydro
MB 280-405485/1-A		02/21/2018 09:36	1	hfpo718B21039.d	Synergi Hydro
LCS 280-405485/2-A		02/21/2018 09:39	1	hfpo718B21040.d	Synergi Hydro
LLCS 280-405485/3-A		02/21/2018 09:43	1	hfpo718B21041.d	Synergi Hydro
LCSD 280-405485/4-A		02/21/2018 09:46	1	hfpo718B21042.d	Synergi Hydro
280-106192-1		02/21/2018 09:49	1	hfpo718B21043.d	Synergi Hydro
280-106192-2		02/21/2018 09:53	1	hfpo718B21044.d	Synergi Hydro
280-106192-3		02/21/2018 09:56	1	hfpo718B21045.d	Synergi Hydro
280-106192-4		02/21/2018 09:59	1	hfpo718B21046.d	Synergi Hydro
280-106192-5		02/21/2018 10:02	1	hfpo718B21047.d	Synergi Hydro
280-106192-6		02/21/2018 10:06	1	hfpo718B21048.d	Synergi Hydro
CCV 280-405661/49		02/21/2018 10:09	1	hfpo718B21049.d	Synergi Hydro
280-106192-7		02/21/2018 10:12	1	hfpo718B21050.d	Synergi Hydro
280-106192-8		02/21/2018 10:15	1	hfpo718B21051.d	Synergi Hydro
280-106192-9		02/21/2018 10:19	1	hfpo718B21052.d	Synergi Hydro
280-106192-10		02/21/2018 10:22	1	hfpo718B21053.d	Synergi Hydro
280-106192-11		02/21/2018 10:25	1	hfpo718B21054.d	Synergi Hydro
280-106192-12		02/21/2018 10:28	1	hfpo718B21055.d	Synergi Hydro
280-106192-13		02/21/2018 10:32	1	hfpo718B21056.d	Synergi Hydro
280-106192-20		02/21/2018 10:35	1	hfpo718B21057.d	Synergi Hydro
280-106192-21		02/21/2018 10:38	1	hfpo718B21058.d	Synergi Hydro
CCV 280-405661/59		02/21/2018 10:41	1	hfpo718B21059.d	Synergi Hydro

8321A

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Instrument ID: LC_LCMS7 Start Date: 02/21/2018 14:00

Analysis Batch Number: 405707 End Date: 02/21/2018 15:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 280-405707/120		02/21/2018 14:00	1	hfpo718B21120.d	Synergi Hydro
MB 280-405589/1-A		02/21/2018 14:04	1	hfpo718B21121.d	Synergi Hydro
LCS 280-405589/2-A		02/21/2018 14:07	1	hfpo718B21122.d	Synergi Hydro
LCSD 280-405589/3-A		02/21/2018 14:10	1	hfpo718B21123.d	Synergi Hydro
LLCS 280-405589/4-A		02/21/2018 14:13	1	hfpo718B21124.d	Synergi Hydro
ZZZZZ		02/21/2018 14:17	4		Synergi Hydro
ZZZZZ		02/21/2018 14:20	10		Synergi Hydro
ZZZZZ		02/21/2018 14:23	20		Synergi Hydro
ZZZZZ		02/21/2018 14:26	50		Synergi Hydro
ZZZZZ		02/21/2018 14:30	1		Synergi Hydro
280-106192-14		02/21/2018 14:33	1	hfpo718B21130.d	Synergi Hydro
CCV 280-405707/131		02/21/2018 14:36	1	hfpo718B21131.d	Synergi Hydro
280-106192-15		02/21/2018 14:39	1	hfpo718B21132.d	Synergi Hydro
280-106192-16		02/21/2018 14:43	1	hfpo718B21133.d	Synergi Hydro
280-106192-17		02/21/2018 14:46	1	hfpo718B21134.d	Synergi Hydro
280-106192-18		02/21/2018 14:49	1	hfpo718B21135.d	Synergi Hydro
280-106192-19		02/21/2018 14:53	1	hfpo718B21136.d	Synergi Hydro
280-106192-22		02/21/2018 14:56	1	hfpo718B21137.d	Synergi Hydro
280-106192-23		02/21/2018 14:59	1	hfpo718B21138.d	Synergi Hydro
280-106192-24		02/21/2018 15:03	1	hfpo718B21139.d	Synergi Hydro
280-106192-25		02/21/2018 15:06	1	hfpo718B21140.d	Synergi Hydro
280-106192-26		02/21/2018 15:09	1	hfpo718B21141.d	Synergi Hydro
CCV 280-405707/142		02/21/2018 15:12	1	hfpo718B21142.d	Synergi Hydro
280-106192-27		02/21/2018 15:16	1	hfpo718B21143.d	Synergi Hydro
280-106192-28		02/21/2018 15:19	1	hfpo718B21144.d	Synergi Hydro
280-106192-28 DU		02/21/2018 15:22	1	hfpo718B21145.d	Synergi Hydro
280-106192-28 MS		02/21/2018 15:25	1	hfpo718B21146.d	Synergi Hydro
280-106192-29		02/21/2018 15:29	1	hfpo718B21147.d	Synergi Hydro
280-106192-30		02/21/2018 15:32	1	hfpo718B21148.d	Synergi Hydro
CCV 280-405707/149		02/21/2018 15:35	1	hfpo718B21149.d	Synergi Hydro

8321A

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-106192-1

SDG No.:

Batch Number: 405485 Batch Start Date: 02/20/18 10:22 Batch Analyst: Bourgery, David F

Batch Method: 3535 Batch End Date: 02/20/18 18:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-405485/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-405485/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-405485/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
LCSD 280-405485/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
280-106192-A-1	FAY-D-26COGDC-W1-1-020718	3535, 8321A	T	328.0 g	30.3 g	297.7 mL	5 mL	0.1 mL	
280-106192-A-2	FAY-D-1206PURDI-W1-1-020718	3535, 8321A	T	330.1 g	29.6 g	300.5 mL	5 mL	0.1 mL	
280-106192-D-3	FAY-D-118RZIER-W1-1-020718	3535, 8321A	T	333.1 g	29.5 g	303.6 mL	5 mL	0.1 mL	
280-106192-B-4	FAY-D-18SNTEL-W1-1-020718	3535, 8321A	T	336.7 g	29.5 g	307.2 mL	5 mL	0.1 mL	
280-106192-D-5	FAY-D-188RZIER-W1-1-020718	3535, 8321A	T	342.9 g	30.0 g	312.9 mL	5 mL	0.1 mL	
280-106192-D-6	FAY-D-5343MRSHR-W1-1-020718	3535, 8321A	T	319.5 g	30.8 g	288.7 mL	5 mL	0.1 mL	
280-106192-A-7	FAY-D-5431MRSHR-W1-1-020718	3535, 8321A	T	302.5 g	29.9 g	272.6 mL	5 mL	0.1 mL	
280-106192-A-8	FAY-D-5668MRSHR-W1-1-020718	3535, 8321A	T	304.3 g	30.4 g	273.9 mL	5 mL	0.1 mL	
280-106192-D-9	FAY-D-4115HORSE-W1-1-020718	3535, 8321A	T	309.0 g	30.9 g	278.1 mL	5 mL	0.1 mL	
280-106192-A-10	FAY-D-3671HEART-W1-1-020618	3535, 8321A	T	310.8 g	30.5 g	280.3 mL	5 mL	0.1 mL	
280-106192-B-11	FAY-D-5770DRGFL-W1-1-020718	3535, 8321A	T	310.8 g	29.4 g	281.4 mL	5 mL	0.1 mL	
280-106192-B-12	FAY-D-3509TRERG-W1-1-020718	3535, 8321A	T	321.0 g	30.1 g	290.9 mL	5 mL	0.1 mL	
280-106192-A-13	FAY-D-3509TRERG-W1-2-020718	3535, 8321A	T	315.2 g	30.4 g	284.8 mL	5 mL	0.1 mL	
280-106192-A-20	FAY-D-6849BUTLE-W1-1-020618	3535, 8321A	T	306.9 g	28.6 g	278.3 mL	5 mL	0.1 mL	
280-106192-A-21	FAY-D-3624HEART-W1-1-020618	3535, 8321A	T	325.7 g	29.1 g	296.6 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.: 280-106192-1

SDG No.:

Batch Number: 405485 Batch Start Date: 02/20/18 10:22 Batch Analyst: Bourgery, David F

Batch Method: 3535 Batch End Date: 02/20/18 18:00

Batch Notes	
Acid ID	2% Formic Aci_00142
Acid Name	2% Formic Acid
Balance ID	24350888
Batch Comment	Reviewer:KI
First End time	02/20/18 1700
H2O ID	HPLC_Water_00857
Pipette ID	m2, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00119
Solvent Lot #	Methanol_00192
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	02/20/18 1450

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.: 280-106192-1

SDG No.:

Batch Number: 405589 Batch Start Date: 02/20/18 21:07 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/21/18 23:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	HFPO I.S. 00008	HFPO Spike 00004
MB 280-405589/1		3535, 8321A				250 mL	5 mL	0.1 mL	
LCS 280-405589/2		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LCSD 280-405589/3		3535, 8321A				250 mL	5 mL	0.1 mL	0.1 mL
LLCS 280-405589/4		3535, 8321A				250 mL	5 mL	0.1 mL	0.01 mL
280-106192-C-14	FAY-D-49DRYES-W1-1-020718	3535, 8321A	T	320.24 g	27.95 g	292.3 mL	5 mL	0.1 mL	
280-106192-C-15	FAY-D-3430DANDE-W1-1-020718	3535, 8321A	T	308.58 g	28.34 g	280.2 mL	5 mL	0.1 mL	
280-106192-B-16	FAY-D-3809HEART-W1-1-020718	3535, 8321A	T	307.56 g	28.69 g	278.9 mL	5 mL	0.1 mL	
280-106192-D-17	FAY-D-3809HEART-W1-2-020718	3535, 8321A	T	303.48 g	27.80 g	275.7 mL	5 mL	0.1 mL	
280-106192-A-18	FAY-D-FB-020718	3535, 8321A	T	312.86 g	28.67 g	284.2 mL	5 mL	0.1 mL	
280-106192-C-19	FAY-D-3397FALLV-W1-1-020718	3535, 8321A	T	306.98 g	27.40 g	279.6 mL	5 mL	0.1 mL	
280-106192-A-22	FAY-D-6670TABOR-W1-1-020718	3535, 8321A	T	292.74 g	29.38 g	263.4 mL	5 mL	0.1 mL	
280-106192-C-23	FAY-D-6908GRHRT-W1-1-020718	3535, 8321A	T	319.44 g	27.68 g	291.8 mL	5 mL	0.1 mL	
280-106192-A-24	FAY-D-6919JOHNS-W1-1-020718	3535, 8321A	T	308.61 g	28.47 g	280.1 mL	5 mL	0.1 mL	
280-106192-B-25	FAY-D-6919JOHNS-W1-2-020718	3535, 8321A	T	313.19 g	27.96 g	285.2 mL	5 mL	0.1 mL	
280-106192-C-26	FAY-D-6951JOHNS-W1-1-020718	3535, 8321A	T	301.16 g	27.57 g	273.6 mL	5 mL	0.1 mL	
280-106192-C-27	FAY-D-7530TABOR-W1-1-020718	3535, 8321A	T	307.24 g	28.08 g	279.2 mL	5 mL	0.1 mL	
280-106192-A-28	FAY-D-3615PNEBR-W1-1-020718	3535, 8321A	T	301.14 g	28.65 g	272.5 mL	5 mL	0.1 mL	
280-106192-B-28 DU	FAY-D-3615PNEBR-W1-1-020718	3535, 8321A	T	297.50 g	28.20 g	269.3 mL	5 mL	0.1 mL	
280-106192-C-28 MS	FAY-D-3615PNEBR-W1-1-020718	3535, 8321A	T	312.32 g	29.75 g	282.6 mL	5 mL	0.1 mL	0.1 mL
280-106192-A-29	FAY-D-3615PNEBR-W1-2-020718	3535, 8321A	T	310.24 g	27.83 g	282.4 mL	5 mL	0.1 mL	
280-106192-C-30	FAY-D-3615PNEBR-W1-1-020718D	3535, 8321A	T	298.19 g	27.63 g	270.6 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.: 280-106192-1

SDG No.:

Batch Number: 405589 Batch Start Date: 02/20/18 21:07 Batch Analyst: Cokley, Cheyana D

Batch Method: 3535 Batch End Date: 02/21/18 23:24

Batch Notes	
Acid ID	2% Formic Aci_00143
Acid Name	2% Formic Acid
Balance ID	24750526
Batch Comment	Reviewer:CDC
First End time	02/20/18 2205
H2O ID	HPLC_Water_00858
Pipette ID	P, SPE-1+ syringe
Reagent ID	10% NH4OH
Reagent Lot Number	10% NH4OH_00119
Solvent Lot #	Methanol_00192
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	02/20/18 2125

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-5_00081

Reagent ID: HFPO_CAL-5_00081

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:	02/20/2018	Solvent Lot:	00016
Open Date:			
Container(s):	4970383		
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._00009	02/20/2019	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00009	02/20/2019	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._00009	Internal Standard for HFPO 0.5ug/mL		02/20/19				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				10.00000	uL

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02/21/2018 9:13

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

HFPO_CAL-6_00081

Reagent ID: HFPO_CAL-6_00081

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:	02/20/2018	Solvent Lot:	00018
Open Date:			
Container(s):	4970384		
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._00009	02/20/2019	0.50000	ug/mL	10.00000	ug/L
13C3 HFPO-DA (IS)	HFPO I.S._00009	02/20/2019	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._00009	Internal Standard for HFPO 0.5ug/ml		02/20/19				20.00000	uL
HFPO Spike_00004	HFPO LCS/Calibration Spike 0.5ug/ml		10/30/18				20.00000	uL

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Page 1 of 1

Shipping and Receiving Documents

Z80-106192 Revised COC received 2/15/18

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

-CB

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Curtis Brown	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: 302.781.5873	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=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	HEPO-DA-LC/MS/MS	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	N	X	
FAY-D-6670 TABOR-WI-1-020718	020718	0949	G	W	N	N	X		
FAY-D-6908 GRHRT-WI-1-020718	020718	1014	G	W	N	N	X		Hold all remaining volumes for [illegible]
FAY-D-6919 JOHNS-WI-1-020718	020718	1529	G	W	N	N	X		
FAY-D-6919 JOHNS-WI-1-020718 2 PR LISIS	020718	1530	G	W	N	N	X		
FAY-D-6951 JOHNS-WI-1-020718	020718	1544	G	W	N	N	X		
FAY-D-7530 TABOR-WI-1-020718	020718	1611	G	W	N	N	X		
FAY-D-3615 PNEBR-WI-1-020718	020718	1709	G	W	N	N	X		
FAY-D-3615 PNEBR-WI-2-020718	020718	1714	G	W	N	N	X		
FAY-D-3615 PNEBR-WI-1-020718MS	020718	1709	G	W	N	N	X		
FAY-D-3615 PNEBR-WI-1-020718REP	020718	1709	G	W	N	N	X		
FAY-D-3615 PNEBR-WI-1-020718D	020718	1709	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: Curtis Brown	Date/Time: 020718 1700	Company: [illegible]	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:

280-106192 Revised COC received 2/22/18 -DS

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 MS	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: 709 [illegible]	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/Waste, AIR, Tissue, Air)	Perfluorinated Sample (Y or N)	PFC-Total, MRL 1.5 ng/L	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:			N			
FAY-D-250078RE-WI-1-000718	[illegible]	1009	G	W	N	N	X		Hold all
FAY-D-250078RE-WI-2-000718	[illegible]	1023	G	W	N	N	X		samples
FAY-D-[illegible]-WI-1-000718	[illegible]	1100	G	W	N	N	X		volume as
FAY-D-[illegible]-WI-1-000718	[illegible]	1119	G	W	N	N	X		[illegible]
FAY-D-[illegible]-WI-1-000718	[illegible]	1106	G	W	N	N	X		
FAY-D-[illegible]-WI-1-000718	[illegible]	1150	G	W	N	N	X		
FAY-D-[illegible]-WI-2-000718	[illegible]	1153	G	W	N	N	X		
FAY-D-[illegible]-000718	[illegible]	0700	G	W	N	N	X		
FAY-D-[illegible]-WI-1-000718	[illegible]	1006	G	W	N	N	X		
[illegible]	[illegible]	1100	G	W	N	N	X		
[illegible]	[illegible]	1100	G	W	N	N	X		

Possible Hazard Identification: [illegible]
☐ 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
[illegible]	[illegible] 1200	[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:

280 - ~~106159~~ 106192 Revised COC received 2/22/18

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: [illegible]	Lab PM: Johnston, Michelle	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Michael Aucoin	Phone: [illegible]	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 - 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, Sewage, Oil, Water, Air)	Field Filtered Sample (Yes or No)	Perform MS/REP (Yes or No)	HFPO-DA-LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
FAY-D-[illegible]	[illegible]	[illegible]	G	[illegible]	[illegible]	[illegible]	X		[illegible]
[illegible]	[illegible]	[illegible]	G		[illegible]	[illegible]	X		
FAY-D-[illegible]	2/7/18	1405	G	W	N	N	X		
FAY-D-[illegible]	2/7/18	1440	G	W	N	N	X		
FAY-D-188 [illegible]	2/07/18	1608	G	W	N	N	X		
FAY-D-[illegible]	2/7/18	0913	G	W	N	N	X		
FAY-D-[illegible]	2/7/18	0931	G	W	N	N	X		
FAY-D-[illegible]	2/7/18	1152	G	W	N	N	X		
FAY-D-[illegible]	2/7/18	1414	G	W	N	N	X		
FAY-D-[illegible]	[illegible]	1008	G	W	N	N	X		
TP 02-22-18									

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
[illegible]	2/7/18 1700	[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
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: CM, CP	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 - 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-26COGDC-W1-1-020718	2/7/18	0858	G	W	N	N	X	4	Hold all remaining
FAY-D-1206PURDI-W1-1-020718	2/7/18	1337	G	W	N	N	X	4	volumes as
FAY-D-118RZIER-W1-1-020718	2/7/18	1405	G	W	N	N	X	4	retains.
FAY-D-18SNTEL-W1-1-020718	2/7/18	1442	G	W	N	N	X	4	
FAY-D-188RZIER-W1-1-020718	2/07/18	1608	G	W	N	N	X	4	
FAY-D-5343MRSHR-W1-1-020718	2/7/18	0913	G	W	N	N	X	4	
FAY-D-5431MRSHR-W1-1-020718	2/7/18	0931	G	W	N	N	X	4	
FAY-D-5668MRSHR-W1-1-020718	2/7/18	1156	G	W	N	N	X	4	
FAY-D-4115HORSE-W1-1-020718	2/7/18	1414	G	W	N	N	X		
FAY-D-3671HEART-W1-1-020617	02/06/18	1008	G	W	N	N	X		

280-106192 Chain of Custody

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]	2/7/18 1700	Parsons	[signature]	2/8/18 0910	TA Den

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.1, 5.7, 1.9 + 0.1 IR #5 transferred by JT 2-8-18

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: TD, MS	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 - 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=wasteoil, 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-6770DRGFL-WI-1-020718	02072018	0909	G	W	N	N	X	4	Hold all
FAY-D-3509TRERG-WI-1-020718	02072018	1102	G	W	N	N	X	4	remaining
FAY-D-3509TRERG-WI-2-020718	02072018	1104	G	W	N	N	X	4	volume as
FAY-D-49DRYES-WI-1-020718	02072018	1317	G	W	N	N	X	4	retains.
FAY-D-3430DANDE-WI-1-020718	02072018	1405	G	W	N	N	X	4	
FAY-D-3809HEART-WI-1-020718	02072018	1450	G	W	N	N	X	4	
FAY-D-3809HEART-WI-2-020718	02072018	1453	G	W	N	N	X	4	
FAY-D-FB-020718	02072018	0700	G	W	N	N	X	4	
FAY-D-3397FALLV-WI-1-020718	02072018	1606	G	W	N	N	X	4	
FAY-D-6849BUTLE-WI-1-020618	02072018	1500	G	W	N	N	X	4	
FAY-D-3824HEART-WI-1-020618	02072018	1101	G	W	N	N	X	4	

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: Urvalee Paw	Date/Time: 02/07/18 1700	Company: Parsons	Received by: [signature]	Date/Time: 02/08/18 0910	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: Curtis Brown	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: 302.781.5873	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 (Wewater, Sewaste, Onwaste/Oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/REP (Yes or No)	HFPO-DA- LC/MS/MS	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	X	
FAY-D-6670TABOR-W1-1-020718	020718	0949	G	W	N	N	X		
FAY-D-6908GRHRT-W1-1-020718	020718	1014	G	W	N	N	X		Hold all remaining
FAY-D-6919JOHNS-W1-1-020718	020718	1529	G	W	N	N	X		volumes for retains
FAY-D-6919JOHNS-W1-1-020718	020718	1530	G	W	N	N	X		
FAY-D-6951JOHNS-W1-1-020718	020718	1544	G	W	N	N	X		
FAY-D-7530TABOR-W1-1-020718	020718	1611	G	W	N	N	X		
FAY-D-3615PNEBR-W1-1-020718	020718	1709	G	W	N	N	X		
FAY-D-3615PNEBR-W1-2-020718	020718	1714	G	W	N	N	X		
FAY-D-3615PNEBR-W1-1-020718MS	020718	1709	G	W	N	N	X		
FAY-D-3615PNEBR-W1-1-020718REP	020718	1709	G	W	N	N	X		
FAY-D-3615PNEBR-W1-1-020718D	020718	1709	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: Curtis Brown	Date/Time: 020718 1700	Company: Parsons	Received by: [signature]	Date/Time: 02/08/18 0910	Company: MADen
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: 280-106192-1

Login Number: 106192
List Number: 1
Creator: True, Joshua A

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.	True	
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	