



# FINAL LAB REPORT

**SGPP - McCaffrey**

31800097

29-Jan-2018

Prepared by

**SGS NORTH AMERICA**

Prepared for

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## Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u>  | <u>Matrix</u> |
|-------------------------|----------------------|------------------|------------------|---------------|
| SG1 - MW29 - 180118     | 31800097001          | 01/18/2018 10:35 | 01/20/2018 11:20 | Water         |
| SG1 - MW03 - 180118     | 31800097002          | 01/18/2018 11:55 | 01/20/2018 11:20 | Water         |
| SG1 - FD02 - 180118     | 31800097003          | 01/18/2018 00:00 | 01/20/2018 11:20 | Water         |
| SG1 - MW15 - 180118     | 31800097004          | 01/18/2018 13:10 | 01/20/2018 11:20 | Water         |
| SG1 - MW10 - 180118     | 31800097007          | 01/18/2018 13:30 | 01/20/2018 11:20 | Water         |
| SG1 - EB01 - 180118     | 31800097008          | 01/18/2018 14:05 | 01/20/2018 11:20 | Water         |

**Case Narrative**

Samples were received on January 20, 2018 via Fed Ex in good condition with a temperature of 3.5 °C. The collection times on the containers and COC for sample ID SG1-FD02-180118 was missing. The samples were analysed for GenX via modified EPA method 537.1.

Surrogate recoveries were marginally below control limits for MB and LCS and sample ID SG1-EB01-180118. The original prep batch for all samples had low recovery of 13C-GenX in the LCS. The entire batch was re-prepped and re-analyzed with LCS recovery of 13C-GenX at 69.5%.

The Internal Standard 13C4-PFOA is below the lower limit for all samples except sample IDs SG1-MW29-180118 and SG1-EB01-180118 due to probable matrix effects (signal suppression) demonstrated by duplicate analyses. The samples with the low IS recoveries have elevated surrogate recoveries.

lab QC (MB, LCS, MS and MSD) met all remaining established criteria.

Instrument QC (ICAL and CCVs) met all established criteria.

## Laboratory Qualifiers

### Report Definitions

|        |                                                                        |
|--------|------------------------------------------------------------------------|
| DL     | Method, Instrument, or Estimated Detection Limit per Analytical Method |
| CL     | Control Limits for the recovery result of a parameter                  |
| LOQ    | Reporting Limit                                                        |
| DF     | Dilution Factor                                                        |
| RPD    | Relative Percent Difference                                            |
| LCS(D) | Laboratory Control Spike (Duplicate)                                   |
| MS(D)  | Matrix Spike (Duplicate)                                               |
| MB     | Method Blank                                                           |

### Qualifier Definitions

|     |                                                                                                               |
|-----|---------------------------------------------------------------------------------------------------------------|
| *   | Recovery or RPD outside of control limits                                                                     |
| B   | Analyte was detected in the Lab Method Blank at a level above the LOQ                                         |
| U   | Undetected (Reported as ND or < DL)                                                                           |
| J   | Estimated Concentration.                                                                                      |
| E   | Amount detected is greater than the Upper Calibration Limit                                                   |
| TIC | Tentatively Identified Compound                                                                               |
| ND  | Not Detected                                                                                                  |
| P   | RPD > 40% between results of dual columns                                                                     |
| D   | Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range |

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

|    |                                                                                              |
|----|----------------------------------------------------------------------------------------------|
| M1 | Mis-identified peak                                                                          |
| M2 | Software did not integrate peak                                                              |
| M3 | Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one) |
| M4 | Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)         |
| M5 | Other - Explained in case narrative                                                          |

**Note** Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

## Parameter Cross Reference

## SURROGATE

| <u>PARAMETER</u> | <u>CASNO</u> | <u>FULL_NAME</u>                                                          |
|------------------|--------------|---------------------------------------------------------------------------|
| 13C-GenX         | 13CGENX      | 2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxyC13)propanoic acid |

## REGULAR

| <u>PARAMETER</u> | <u>CASNO</u> | <u>FULL_NAME</u>                                         |
|------------------|--------------|----------------------------------------------------------|
| HFPO-DA (GenX)   | 13252-13-6   | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoic acid |



## SGS CERTIFICATIONS

|                                         |                   |
|-----------------------------------------|-------------------|
| Arkansas                                | 88-0682           |
| California (ELAP)                       | ELAP Cert #2914   |
| CLIA                                    | 34D1013708        |
| Connecticut                             | PH-0258           |
| USDA Soil Permit                        | P330-17-00055     |
| DoD                                     | 2726.01           |
| Florida (Primary NELAP)                 | E87634            |
| ISO 17025/IEC                           | 2726.01           |
| Louisiana DEQ                           | 4115              |
| Louisiana DOH                           | LA170030          |
| Maine                                   | 2016028           |
| Massachusetts                           | M-NC919           |
| Minnesota (Primary NELAP For Method 23) | 1179213           |
| Mississippi                             | Reciprocity       |
| Nebraska                                | NE-OS-33-17       |
| New Hampshire                           | 208317            |
| New Jersey                              | NC100             |
| New York                                | 11685             |
| North Carolina DEQ                      | 481               |
| North Dakota                            | R-197             |
| Oregon                                  | NC200002          |
| Pennsylvania                            | 68-03675          |
| South Carolina                          | 99029002          |
| Texas                                   | T104704260        |
| US Coast Guard                          | 16714/159.317/SGS |
| Virginia                                | 8914              |
| Washington                              | C913              |
| West Virginia                           | 293               |

Rev. 04-Aug-2017

### Detectable Results Summary

**\* No Detectable Results \***

# GenX

## Sample Data



#### Results of **SG1 - MW29 - 180118**

Client Sample ID: **SG1 - MW29 - 180118**  
 Client Project ID: **SGPP - McCaffrey**  
 Lab Sample ID: 31800097001-A  
 Lab Project ID: 31800097

Collection Date: 01/18/2018 10:35  
 Received Date: 01/20/2018 11:20  
 Matrix: Water

#### Results by **GenX**

| <u>Parameter</u>  | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-------------------|---------------|-------------|-----------|---------------|--------------|-----------|----------------------|
| HFPO-DA (GenX)    | ND            | U           | 5.07      | 10.1          | ng/L         | 1         | 01/26/2018 3:13      |
| <b>Surrogates</b> |               |             |           |               |              |           |                      |
| 13C-GenX          | 81.8          |             |           | 70.0-130      | %            | 1         | 01/26/2018 3:13      |

#### Batch Information

Analytical Batch: **XLC1132**  
 Analytical Method: **GenX**  
 Instrument: **TQS1**  
 Analyst: **ADM**

Prep Batch: **HXX2108**  
 Prep Method: **GenX Prep**  
 Prep Date/Time: **01/24/2018 09:17**  
 Prep Initial Wt./Vol.: **246.5 mL**  
 Prep Extract Vol: **1 mL**

#### Results of **SG1 - MW03 - 180118**

Client Sample ID: **SG1 - MW03 - 180118**  
 Client Project ID: **SGPP - McCaffrey**  
 Lab Sample ID: 31800097002-A  
 Lab Project ID: 31800097

Collection Date: 01/18/2018 11:55  
 Received Date: 01/20/2018 11:20  
 Matrix: Water

#### Results by **GenX**

| <u>Parameter</u>  | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-------------------|---------------|-------------|-----------|---------------|--------------|-----------|----------------------|
| HFPO-DA (GenX)    | ND            | U           | 4.87      | 9.73          | ng/L         | 1         | 01/26/2018 3:44      |
| <b>Surrogates</b> |               |             |           |               |              |           |                      |
| 13C-GenX          | 161*          |             |           | 70.0-130      | %            | 1         | 01/26/2018 3:44      |

#### Batch Information

Analytical Batch: **XLC1132**  
 Analytical Method: **GenX**  
 Instrument: **TQS1**  
 Analyst: **ADM**

Prep Batch: **HXX2108**  
 Prep Method: **GenX Prep**  
 Prep Date/Time: **01/24/2018 09:17**  
 Prep Initial Wt./Vol.: **256.96 mL**  
 Prep Extract Vol: **1 mL**

#### Results of **SG1 - FD02 - 180118**

Client Sample ID: **SG1 - FD02 - 180118**  
 Client Project ID: **SGPP - McCaffrey**  
 Lab Sample ID: 31800097003-A  
 Lab Project ID: 31800097

Collection Date: 01/18/2018 00:00  
 Received Date: 01/20/2018 11:20  
 Matrix: Water

#### Results by **GenX**

| <u>Parameter</u>  | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-------------------|---------------|-------------|-----------|---------------|--------------|-----------|----------------------|
| HFPO-DA (GenX)    | ND            | U           | 5.04      | 10.1          | ng/L         | 1         | 01/26/2018 4:14      |
| <b>Surrogates</b> |               |             |           |               |              |           |                      |
| 13C-GenX          | 185*          |             |           | 70.0-130      | %            | 1         | 01/26/2018 4:14      |

#### Batch Information

Analytical Batch: **XLC1132**  
 Analytical Method: **GenX**  
 Instrument: **TQS1**  
 Analyst: **ADM**

Prep Batch: **HXX2108**  
 Prep Method: **GenX Prep**  
 Prep Date/Time: **01/24/2018 09:17**  
 Prep Initial Wt./Vol.: **248.13 mL**  
 Prep Extract Vol: **1 mL**

#### Results of **SG1 - MW15 - 180118**

Client Sample ID: **SG1 - MW15 - 180118**  
 Client Project ID: **SGPP - McCaffrey**  
 Lab Sample ID: 31800097004-A  
 Lab Project ID: 31800097

Collection Date: 01/18/2018 13:10  
 Received Date: 01/20/2018 11:20  
 Matrix: Water

#### Results by **GenX**

| <u>Parameter</u>  | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-------------------|---------------|-------------|-----------|---------------|--------------|-----------|----------------------|
| HFPO-DA (GenX)    | ND            | U           | 5.15      | 10.3          | ng/L         | 1         | 01/26/2018 4:45      |
| <b>Surrogates</b> |               |             |           |               |              |           |                      |
| 13C-GenX          | 183*          |             |           | 70.0-130      | %            | 1         | 01/26/2018 4:45      |

#### Batch Information

Analytical Batch: **XLC1132**  
 Analytical Method: **GenX**  
 Instrument: **TQS1**  
 Analyst: **ADM**

Prep Batch: **HXX2108**  
 Prep Method: **GenX Prep**  
 Prep Date/Time: **01/24/2018 09:17**  
 Prep Initial Wt./Vol.: **242.93 mL**  
 Prep Extract Vol: **1 mL**

#### Results of **SG1 - MW10 - 180118**

Client Sample ID: **SG1 - MW10 - 180118**  
 Client Project ID: **SGPP - McCaffrey**  
 Lab Sample ID: 31800097007-A  
 Lab Project ID: 31800097

Collection Date: 01/18/2018 13:30  
 Received Date: 01/20/2018 11:20  
 Matrix: Water

#### Results by **GenX**

| <u>Parameter</u>  | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-------------------|---------------|-------------|-----------|---------------|--------------|-----------|----------------------|
| HFPO-DA (GenX)    | ND            | U           | 4.79      | 9.57          | ng/L         | 1         | 01/26/2018 6:17      |
| <b>Surrogates</b> |               |             |           |               |              |           |                      |
| 13C-GenX          | 215*          |             |           | 70.0-130      | %            | 1         | 01/26/2018 6:17      |

#### Batch Information

Analytical Batch: **XLC1132**  
 Analytical Method: **GenX**  
 Instrument: **TQS1**  
 Analyst: **ADM**

Prep Batch: **HXX2108**  
 Prep Method: **GenX Prep**  
 Prep Date/Time: **01/24/2018 09:17**  
 Prep Initial Wt./Vol.: **261.22 mL**  
 Prep Extract Vol: **1 mL**

### Results of **SG1 - EB01 - 180118**

Client Sample ID: **SG1 - EB01 - 180118**  
 Client Project ID: **SGPP - McCaffrey**  
 Lab Sample ID: 31800097008-A  
 Lab Project ID: 31800097

Collection Date: 01/18/2018 14:05  
 Received Date: 01/20/2018 11:20  
 Matrix: Water

### Results by **GenX**

| <u>Parameter</u>  | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> | <u>Date Analyzed</u> |
|-------------------|---------------|-------------|-----------|---------------|--------------|-----------|----------------------|
| HFPO-DA (GenX)    | ND            | U           | 4.98      | 9.95          | ng/L         | 1         | 01/26/2018 6:48      |
| <b>Surrogates</b> |               |             |           |               |              |           |                      |
| 13C-GenX          | 66.1*         |             |           | 70.0-130      | %            | 1         | 01/26/2018 6:48      |

### Batch Information

Analytical Batch: **XLC1132**  
 Analytical Method: **GenX**  
 Instrument: **TQS1**  
 Analyst: **ADM**

Prep Batch: **HXX2108**  
 Prep Method: **GenX Prep**  
 Prep Date/Time: **01/24/2018 09:17**  
 Prep Initial Wt./Vol.: **251.16 mL**  
 Prep Extract Vol: **1 mL**

## CHAIN OF CUSTODY | TRACE & SHALE

Page 1 of 1

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**PROJECT INFO:**

PROJECT: *SGPP-McCaffrey*

P.O. #: 14.4756

QUOTE #:

SITE REF:

TURN AROUND TIME: 5 days

REPORT LEVEL: (see reverse) ☐ Level I ☐ Level II ☒ Level IV

SPECIAL DELIVERABLES: ☐ State of Origin:

~~7~~ EDD:

☐ DoD:

☐ Other:**SEND DOCUMENTATION / RESULTS TO:**

COMPANY: *CT Male Associates*

CONTACT: *Kirk Moline*

ADDRESS: 50 Century Hill Dr, Latham, NY 12110

PHONE: 578-786-7400

EMAIL: [k.molise@ctmale.com](mailto:k.molise@ctmale.com)

**INVOICE TO:** ☒ (CHECK IF SAME)

COMPANY:

CONTACT:

ADDRESS:

PHONE:

EMAIL:

**SPECIAL INSTRUCTIONS / COMMENTS:**

[illegible]

| LAB ID                             | SAMPLE ID / DESCRIPTION | DATE             | TIME          | QC               |     |     | TYPE<br>(C, G) | MATRIX | CONT.<br>QTY |   |                                                                                                                      |  |                  |                |  |  |  | REMARKS     |  |
|------------------------------------|-------------------------|------------------|---------------|------------------|-----|-----|----------------|--------|--------------|---|----------------------------------------------------------------------------------------------------------------------|--|------------------|----------------|--|--|--|-------------|--|
|                                    |                         |                  |               | MS               | MSD | DUP |                |        |              |   |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    | SG1-MW29-180118         | 1/18/18          | 1335          |                  |     |     | G              | GW     | 2            | X |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    | SG1-MW03-180118         | 1/18/18          | 1155          |                  |     |     | G              | GW     | 2            | X |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    | SG1-FD02-180118         | 1/18/18          | -             |                  |     |     | G              | GW     | 2            | X |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    | SG1-MW15-180118         | 1/18/18          | 1310          | X                | X   |     | G              | GW     | 6            | X |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    | SG1-MW10-180118         | 1/18/18          | 1330          |                  |     |     | G              | GW     | 2            | X |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    | SG1-EB01-180118         | 1/18/18          | 1405          |                  |     |     | G              | BW     | 2            | X |                                                                                                                      |  |                  |                |  |  |  | Rinse Water |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   |                                                                                                                      |  |                  |                |  |  |  |             |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   |                                                                                                                      |  |                  |                |  |  |  |             |  |
| COLLECTED/RELINQUISHED BY (1):<br> |                         | DATE:<br>1/18/18 | TIME:<br>1640 | RECEIVED BY:<br> |     |     |                |        |              |   | RECEIVED BY LABORATORY:                                                                                              |  | DATE:<br>1/20/18 | TIME:<br>11:20 |  |  |  |             |  |
| RELINQUISHED BY (2):<br>           |                         | DATE:            | TIME:         | RECEIVED BY:     |     |     |                |        |              |   | COC SEAL: <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT |  |                  |                |  |  |  |             |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   | SAMPLE RECEIPT TEMP: °C                                                                                              |  | 3.5              |                |  |  |  |             |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   | CARRIER: FedEx                                                                                                       |  | TRACKING #:      |                |  |  |  |             |  |
|                                    |                         |                  |               |                  |     |     |                |        |              |   | NOTES: 7323 6250 7299                                                                                                |  |                  |                |  |  |  |             |  |

White - Retained by Lab  
Yellow - Retained by Client

SGS ENVIRONMENTAL SERVICES

**TRACE LABORATORY** 5500 Business Drive Wilmington, NC 28405 910 350 1903 | 910 794 1613 [www.sgs.com](http://www.sgs.com)

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SGS-00055 (01/15)

15/82

### Sample Receipt Checklist (SRC)

Work Order No.: **31800097**

- Comments: \_\_\_\_\_

\* = Samples -003 sample collection time on samples & COC missing.

Date: 1/22/2018



# GenX

## QC, Blanks Data

## Batch Summary

Analytical Method: GenX

Prep Method: GenX Prep

Prep Batch: HXX2108

Prep Date: 01/24/2018 09:17

| <u>Client Sample ID</u>       | <u>Lab Sample ID</u> | <u>Analysis Date</u> | <u>Analytical Batch</u> | <u>Instrument</u> | <u>Analyst</u> |
|-------------------------------|----------------------|----------------------|-------------------------|-------------------|----------------|
| MB for HBN 144149 [HXX/2108]  | 216376               | 01/25/2018 21:35     | XLC1132                 | TQS1              | ADM            |
| LCS for HBN 144149 [HXX/2108] | 216377               | 01/25/2018 22:06     | XLC1132                 | TQS1              | ADM            |
| SG1 - Midfluent - 180118 MS   | 31800096003          | 01/25/2018 23:38     | XLC1132                 | TQS1              | ADM            |
| SG1 - Midfluent - 180118 MSD  | 31800096004          | 01/26/2018 00:09     | XLC1132                 | TQS1              | ADM            |
| SG1 - MW29 - 180118           | 31800097001          | 01/26/2018 03:13     | XLC1132                 | TQS1              | ADM            |
| SG1 - MW03 - 180118           | 31800097002          | 01/26/2018 03:44     | XLC1132                 | TQS1              | ADM            |
| SG1 - FD02 - 180118           | 31800097003          | 01/26/2018 04:14     | XLC1132                 | TQS1              | ADM            |
| SG1 - MW15 - 180118           | 31800097004          | 01/26/2018 04:45     | XLC1132                 | TQS1              | ADM            |
| SG1 - MW15 - 180118 MS        | 31800097005          | 01/26/2018 05:16     | XLC1132                 | TQS1              | ADM            |
| SG1 - MW15 - 180118 MSD       | 31800097006          | 01/26/2018 05:46     | XLC1132                 | TQS1              | ADM            |
| SG1 - MW10 - 180118           | 31800097007          | 01/26/2018 06:17     | XLC1132                 | TQS1              | ADM            |
| SG1 - EB01 - 180118           | 31800097008          | 01/26/2018 06:48     | XLC1132                 | TQS1              | ADM            |

**Method Blank Summary**
**Form 4**

Blank ID: MB for HBN 144149 [HXX/2108]  
 Blank Lab ID: 216376  
 Prep Batch: HXX2108

Matrix: Water  
 Analysis Date/Time: 01/25/2018 21:35

**Results by GenX**

| <u>Client Sample ID</u>       | <u>Lab Sample ID</u> | <u>Filename</u> | <u>Date Analyzed</u> | <u>Analyst</u> |
|-------------------------------|----------------------|-----------------|----------------------|----------------|
| LCS for HBN 144149 [HXX/2108] | 216377               | 1801250D19      | 01/25/2018 22:06     | ADM            |
| SG1 - Midfluent - 180118 MS   | 31800096003          | 1801250D22      | 01/25/2018 23:38     | ADM            |
| SG1 - Midfluent - 180118 MSD  | 31800096004          | 1801250D23      | 01/26/2018 00:09     | ADM            |
| SG1 - MW29 - 180118           | 31800097001          | 1801250D29      | 01/26/2018 03:13     | ADM            |
| SG1 - MW03 - 180118           | 31800097002          | 1801250D30      | 01/26/2018 03:44     | ADM            |
| SG1 - FD02 - 180118           | 31800097003          | 1801250D31      | 01/26/2018 04:14     | ADM            |
| SG1 - MW15 - 180118           | 31800097004          | 1801250D32      | 01/26/2018 04:45     | ADM            |
| SG1 - MW15 - 180118 MS        | 31800097005          | 1801250D33      | 01/26/2018 05:16     | ADM            |
| SG1 - MW15 - 180118 MSD       | 31800097006          | 1801250D34      | 01/26/2018 05:46     | ADM            |
| SG1 - MW10 - 180118           | 31800097007          | 1801250D35      | 01/26/2018 06:17     | ADM            |
| SG1 - EB01 - 180118           | 31800097008          | 1801250D36      | 01/26/2018 06:48     | ADM            |

### Method Blank

Blank ID: MB for HBN 144149 [HXX/2108]

Matrix: Water

Blank Lab ID: 216376

QC for Samples:

31800097001, 31800097002, 31800097003, 31800097004, 31800097007, 31800097008

### Results by GenX

| <u>Parameter</u>  | <u>Result</u> | <u>Qual</u> | <u>DL</u> | <u>LOQ/CL</u> | <u>Units</u> | <u>DF</u> |
|-------------------|---------------|-------------|-----------|---------------|--------------|-----------|
| HFPO-DA (GenX)    | ND            | U           | 5.00      | 10.0          | ng/L         | 1         |
| <b>Surrogates</b> |               |             |           |               |              |           |
| 13C-GenX          | 68.9*         |             |           | 70.0-130      | %            | 1         |

### Batch Information

Analytical Batch: XLC1132

Analytical Method: GenX

Instrument: TQS1

Analyst: ADM

Prep Batch: HXX2108

Prep Method: GenX Prep

Prep Date/Time: 1/24/2018 9:17:31AM

Prep Initial Wt./Vol.: 250 mL

Prep Extract Vol: 1 mL

### Blank Spike Summary

Blank Spike ID: LCS for HBN 144149 [HXX/2108]

Blank Spike Lab ID: 216377

Date Analyzed: 01/25/2018 22:06

Matrix: Water

QC for Samples: 31800097001, 31800097002, 31800097003, 31800097004, 31800097007, 31800097008

### Results by GenX

| Parameter         | Blank Spike (ng/L) |        |              | CL       |
|-------------------|--------------------|--------|--------------|----------|
|                   | Spike              | Result | Rec (%)      |          |
| HFPO-DA (GenX)    | 100                | 108    | 108          | 70.0-130 |
| <b>Surrogates</b> |                    |        |              |          |
| 13C-GenX          |                    |        | <b>69.5*</b> | 70.0-130 |

### Batch Information

Analytical Batch: **XLC1132**

Analytical Method: **GenX**

Instrument: **TQS1**

Analyst: **ADM**

Prep Batch: **HXX2108**

Prep Method: **GenX Prep**

Prep Date/Time: **01/24/2018 09:17**

Spike Init Wt./Vol.: **250 mL** Extract Vol: **1 mL**

Dupe Init Wt./Vol.: Extract Vol:

### Matrix Spike Summary

Original Sample ID: 31800097004 (SG1 - MW15 - 180118)  
 MS Sample ID: 31800097005  
 MSD Sample ID: 31800097006

Analysis Date: 01/26/2018 04:45  
 Analysis Date: 01/26/2018 05:16  
 Analysis Date: 01/26/2018 05:46  
 Matrix: Water

QC for Samples: 31800097001, 31800097002, 31800097003, 31800097004, 31800097007, 31800097008

### Results by GenX

| Parameter         | Sample | Matrix Spike (ng/L) |        |         | Spike Duplicate (ng/L) |        |         | CL       | RPD (%) | RPD CL |
|-------------------|--------|---------------------|--------|---------|------------------------|--------|---------|----------|---------|--------|
|                   |        | Spike               | Result | Rec (%) | Spike                  | Result | Rec (%) |          |         |        |
| HFPO-DA (GenX)    | ND     | 105                 | 109    | 104     | 105                    | 122    | 116     | 70.0-130 | 11      | 30.00  |
| <b>Surrogates</b> |        |                     |        |         |                        |        |         |          |         |        |
| 13C-GenX          |        |                     |        | 184 *   |                        |        | 158 *   | 70.0-130 |         |        |

### Batch Information

Analytical Batch: **XLC1132**  
 Analytical Method: **GenX**  
 Instrument: **TQS1**  
 Analyst: **ADM**

Prep Batch: **HXX2108**  
 Prep Method: **GenX Prep**  
 Prep Date/Time: **01/24/2018 09:17**  
 MS Init Wt./Vol.: **238.47 mL** Extract Vol.: **1 mL**  
 MSD Init Wt./Vol.: **238.17 mL** Extract Vol.: **1 mL**

### Internal Standard/Retention Time Window Summary

Analytical Batch: XLC1132  
 Analytical Date/Time: 1/26/2018 7:19:06AM  
 Instrument: TQS1  
 CCV Filename: 1801250D37

Analyst: ADM

### GenX

|             | <u>IS 1</u> |           | <u>IS 2</u> |           | <u>IS 3</u> |           |
|-------------|-------------|-----------|-------------|-----------|-------------|-----------|
|             | <u>Area</u> | <u>RT</u> | <u>Area</u> | <u>RT</u> | <u>Area</u> | <u>RT</u> |
| Initial Cal | 1277475     | 7.78      |             |           |             |           |
| Upper Limit | 1916213     | 8.78      |             |           |             |           |
| Lower Limit | 638738      | 6.78      |             |           |             |           |
| CCV         | 1397335     | 7.78      |             |           |             |           |

| <u>Sample</u> | <u>Date/Time</u> | <u>Area</u> | <u>RT</u> | <u>Area</u> | <u>RT</u> | <u>Area</u> | <u>RT</u> |
|---------------|------------------|-------------|-----------|-------------|-----------|-------------|-----------|
| 216376        | 1/25/18 21:35    | 1587709     | 7.78      |             |           |             |           |
| 216377        | 1/25/18 22:06    | 1569160     | 7.79      |             |           |             |           |
| 31800096003   | 1/25/18 23:38    | 1601975     | 7.78      |             |           |             |           |
| 31800096004   | 1/26/18 0:09     | 1619480     | 7.79      |             |           |             |           |
| 31800097001   | 1/26/18 3:13     | 1130237     | 7.78      |             |           |             |           |
| 31800097002   | 1/26/18 3:44     | 620171      | 7.78      |             |           |             |           |
| 31800097003   | 1/26/18 4:14     | 542423      | 7.78      |             |           |             |           |
| 31800097004   | 1/26/18 4:45     | 550596      | 7.78      |             |           |             |           |
| 31800097005   | 1/26/18 5:16     | 561408      | 7.78      |             |           |             |           |
| 31800097006   | 1/26/18 5:46     | 562547      | 7.77      |             |           |             |           |
| 31800097007   | 1/26/18 6:17     | 466909      | 7.78      |             |           |             |           |
| 31800097008   | 1/26/18 6:48     | 1527915     | 7.78      |             |           |             |           |

IS1 = 13C4-PFOA

IS2 =

IS3 =

### Surrogate Summary

Analytical Method: GenX  
 Work Order: 31800097  
 Matrix: Water

Analytical Batch: XLC1132

### Results by GenX

|                               |       |
|-------------------------------|-------|
| MB for HBN 144149 [HXX/2108]  | 68.9* |
| LCS for HBN 144149 [HXX/2108] | 69.5* |
| SG1 - MW29 - 180118           | 81.8  |
| SG1 - MW03 - 180118           | 161*  |
| SG1 - FD02 - 180118           | 185*  |
| SG1 - MW15 - 180118           | 183*  |
| SG1 - MW15 - 180118 MS        | 184*  |
| SG1 - MW15 - 180118 MSD       | 158*  |
| SG1 - MW10 - 180118           | 215*  |
| SG1 - EB01 - 180118           | 66.1* |

### Control Limits

13C-GenX

70.0-130



### Initial Calibration Summary

Calibration Batch: XLC1131  
 ICAL Start: 1/25/2018 1:13:27PM  
 ICAL End: 1/25/2018 4:17:44PM

Instrument: TQS1  
 Analyst: ADM

### GenX

### Curve Summary

| <u>Parameter</u> | <u>Average RF/Slope</u> | <u>y-Intercept</u> | <u>2nd Order</u> | <u>Linear Term</u> | <u>Calibration Type</u> |
|------------------|-------------------------|--------------------|------------------|--------------------|-------------------------|
| HFPO-DA (GenX)   | 7.60455                 |                    |                  | 0.99339            | Linear                  |

### Surrogates/ Internal Standards

| <u>Parameter</u> | <u>RESP LOW</u> | <u>RESP HIGH</u> | <u>RPD</u> | <u>QC</u> |
|------------------|-----------------|------------------|------------|-----------|
| 13C4-PFOA        | 1234121         | 1313022          | 6.2        |           |
| 13C-GenX         | 460             | 520              | 12.3       |           |

**IS/SS RPD Limit:** 20 %

### Continuing Calibration

Analytical Batch: XLC1132  
Instrument: TQS1  
Filename: 1801250D17

QCID: CCV  
Date Analyzed: 1/25/2018 9:04:58PM  
Analyst: ADM  
Units: ng/L

### GenX

| <u>Parameter</u> | <u>Spike</u> | <u>Result</u> | <u>Rec (%)</u> | <u>CL</u>    |
|------------------|--------------|---------------|----------------|--------------|
| HFPO-DA (GenX)   | 25,000.00    | 24,700.00     | 98.7           | 75.00-125.00 |

### Continuing Calibration

Analytical Batch: XLC1132  
Instrument: TQS1  
Filename: 1801250D28

QCID: CCV  
Date Analyzed: 1/26/2018 2:42:45AM  
Analyst: ADM  
Units: ng/L

### GenX

| <u>Parameter</u> | <u>Spike</u> | <u>Result</u> | <u>Rec (%)</u> | <u>CL</u>    |
|------------------|--------------|---------------|----------------|--------------|
| HFPO-DA (GenX)   | 25,000.00    | 23,900.00     | 95.8           | 75.00-125.00 |

### Continuing Calibration

Analytical Batch: XLC1132  
Instrument: TQS1  
Filename: 1801250D37

QCID: CCV  
Date Analyzed: 1/26/2018 7:19:06AM  
Analyst: ADM  
Units: ng/L

### GenX

| <u>Parameter</u> | <u>Spike</u> | <u>Result</u> | <u>Rec (%)</u> | <u>CL</u>    |
|------------------|--------------|---------------|----------------|--------------|
| HFPO-DA (GenX)   | 25,000.00    | 25,900.00     | 104            | 75.00-125.00 |

# GenX

## Sample Data

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

REVIEWED

Christina\_Newkirk , 15:16:05, 26/01/2018

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Method: C:\MassLynx\TargetLynx.pro\Methdb\GenX.mdb 29 Oct 2017 20:51:24

Calibration: C:\MassLynx\TargetLynx.pro\Curvedb\GenX\_Cal\_180125.cdb 25 Jan 2018 16:53:12

Name: 1801250D17, ID: CCV, Date: 25-Jan-2018, Time: 21:04:58, Description: CCV, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.17 | 4172.752    | 556.029     | 187.614     | bb        | 24.7 | -1.3 |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 556.029     | 1404373.250 | 0.010       | bb        | 25.4 | 1.5  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.80 | 1404373.250 |             | 1404373.250 | bb        | 27.5 | 9.9  |

Name: 1801250D18, ID: 216376, Date: 25-Jan-2018, Time: 21:35:38, Description: 216376, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 426.742     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 426.742     | 1587708.875 | 0.007       | bb        | 17.2 | -31.1 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1587708.875 |             | 1587708.875 | bb        | 31.1 | 24.3  |

Name: 1801250D19, ID: 216377, Date: 25-Jan-2018, Time: 22:06:24, Description: 216377, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.16 | 3493.669    | 425.288     | 205.371     | bb        | 27.0 | 8.0   |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 425.288     | 1569160.375 | 0.007       | bb        | 17.4 | -30.5 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.79 | 1569160.375 |             | 1569160.375 | bb        | 30.7 | 22.8  |

Name: 1801250D20, ID: 0096\_1, Date: 25-Jan-2018, Time: 22:37:03, Description: 0096\_1, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 334.617     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 334.617     | 1374511.625 | 0.006       | bb        | 15.6 | -37.6 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.79 | 1374511.625 |             | 1374511.625 | bb        | 26.9 | 7.6   |

Name: 1801250D21, ID: 0096\_2, Date: 25-Jan-2018, Time: 23:07:42, Description: 0096\_2, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 451.224     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 451.224     | 1558270.375 | 0.007       | bb        | 18.6 | -25.8 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1558270.375 |             | 1558270.375 | bb        | 30.5 | 22.0  |

Name: 1801250D22, ID: 0096\_3, Date: 25-Jan-2018, Time: 23:38:25, Description: 0096\_3, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area          | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|---------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.16 | 3697.204      | 431.677     | 214.119     | bb        | 28.2 | 12.6  |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 30/82 431.677 | 1601974.750 | 0.007       | bb        | 17.3 | -30.9 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1601974.750   |             | 1601974.750 | bb        | 31.4 | 25.4  |

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

REVIEWED

Christina Newkirk, 15:17:40, 26/01/2018

Name: 1801250D23, ID: 0096\_4, Date: 26-Jan-2018, Time: 00:09:09, Description: 0096\_4, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.16 | 3402.843    | 398.202     | 213.638     | bb        | 28.1 | 12.4  |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 398.202     | 1619480.250 | 0.006       | bb        | 15.8 | -37.0 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.79 | 1619480.250 |             | 1619480.250 | bb        | 31.7 | 26.8  |

Name: 1801250D24, ID: 0096\_5, Date: 26-Jan-2018, Time: 00:39:52, Description: 0096\_5, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 422.499     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 422.499     | 1608526.625 | 0.007       | bb        | 16.8 | -32.7 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.79 | 1608526.625 |             | 1608526.625 | bb        | 31.5 | 25.9  |

Name: 1801250D25, ID: 0096\_6, Date: 26-Jan-2018, Time: 01:10:35, Description: 0096\_6, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 405.140     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 405.140     | 1578768.750 | 0.006       | bb        | 16.4 | -34.2 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1578768.750 |             | 1578768.750 | bb        | 30.9 | 23.6  |

Name: 1801250D26, ID: 0096\_7, Date: 26-Jan-2018, Time: 01:41:18, Description: 0096\_7, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 470.066     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 470.066     | 1544208.625 | 0.008       | bb        | 19.5 | -22.0 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1544208.625 |             | 1544208.625 | bb        | 30.2 | 20.9  |

Name: 1801250D27, ID: 0096\_8, Date: 26-Jan-2018, Time: 02:12:02, Description: 0096\_8, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 407.017     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 407.017     | 1575984.000 | 0.006       | bb        | 16.5 | -33.8 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.79 | 1575984.000 |             | 1575984.000 | bb        | 30.8 | 23.4  |

Name: 1801250D28, ID: CCV, Date: 26-Jan-2018, Time: 02:42:45, Description: CCV, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.16 | 4211.455    | 578.126     | 182.117     | bb        | 23.9 | -4.2 |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 578.126     | 1402130.250 | 0.010       | bb        | 26.4 | 5.7  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1402130.250 |             | 1402130.250 | bb        | 27.4 | 9.8  |

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

REVIEWED

Christina Newkirk , 15:18:48, 26/01/2018

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D29, ID: 0097\_1, Date: 26-Jan-2018, Time: 03:13:28, Description: 0097\_1, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 360.744     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 360.744     | 1130236.875 | 0.008       | bb        | 20.4 | -18.2 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1130236.875 |             | 1130236.875 | bb        | 22.1 | -11.5 |

Name: 1801250D30, ID: 0097\_2, Date: 26-Jan-2018, Time: 03:44:13, Description: 0097\_2, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area       | IS Area    | Response   | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|------------|------------|------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |            | 390.728    |            |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 390.728    | 620170.938 | 0.016      | bb        | 40.4 | 61.4  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 620170.938 |            | 620170.938 | bb        | 12.1 | -51.5 |

Name: 1801250D31, ID: 0097\_3, Date: 26-Jan-2018, Time: 04:14:48, Description: 0097\_3, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area       | IS Area    | Response   | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|------------|------------|------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |            | 391.703    |            |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 391.703    | 542422.563 | 0.018      | bb        | 46.3 | 85.0  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 542422.563 |            | 542422.563 | bb        | 10.6 | -57.5 |

Name: 1801250D32, ID: 0097\_4, Date: 26-Jan-2018, Time: 04:45:30, Description: 0097\_4, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area       | IS Area    | Response   | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|------------|------------|------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |            | 392.905    |            |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 392.905    | 550595.813 | 0.018      | bb        | 45.7 | 82.9  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 550595.813 |            | 550595.813 | bb        | 10.8 | -56.9 |

Name: 1801250D33, ID: 0097\_5, Date: 26-Jan-2018, Time: 05:16:13, Description: 0097\_5, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area       | IS Area    | Response   | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|------------|------------|------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.16 | 3176.781   | 403.504    | 196.825    | bb        | 25.9 | 3.5   |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 403.504    | 561407.938 | 0.018      | bb        | 46.0 | 84.2  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 561407.938 |            | 561407.938 | bb        | 11.0 | -56.1 |

Name: 1801250D34, ID: 0097\_6, Date: 26-Jan-2018, Time: 05:46:56, Description: 0097\_6, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area       | IS Area    | Response   | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|------------|------------|------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.15 | 3052.655   | 346.388    | 220.320    | bb        | 29.0 | 15.9  |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.16 | 346.388    | 562546.750 | 0.015      | bb        | 39.4 | 57.8  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.77 | 562546.750 |            | 562546.750 | bb        | 11.0 | -56.0 |



Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D35, ID: 0097\_7, Date: 26-Jan-2018, Time: 06:17:39, Description: 0097\_7, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area       | IS Area    | Response   | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|------------|------------|------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |            | 391.811    |            |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.15 | 391.811    | 466908.906 | 0.021      | bb        | 53.8 | 115.0 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 466908.906 |            | 466908.906 | bb        | 9.14 | -63.5 |

Name: 1801250D36, ID: 0097\_8, Date: 26-Jan-2018, Time: 06:48:23, Description: 0097\_8, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev  |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|-------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   |      |             | 394.081     |             |           |      |       |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.15 | 394.081     | 1527914.500 | 0.006       | bb        | 16.5 | -33.9 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1527914.500 |             | 1527914.500 | bb        | 29.9 | 19.6  |

Name: 1801250D37, ID: CCV, Date: 26-Jan-2018, Time: 07:19:06, Description: CCV, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.15 | 4009.491    | 508.946     | 196.951     | bb        | 25.9 | 3.6  |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.15 | 508.946     | 1397335.000 | 0.009       | bb        | 23.3 | -6.7 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.78 | 1397335.000 |             | 1397335.000 | bb        | 27.3 | 9.4  |

0097\_5  $\frac{25.88 \times 1}{238.47} \times 1000 = 108.53$

Christina\_Newkirk , 1/26/2018, 3:27:28 pm

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Method: C:\MassLynx\TargetLynx.pro\Methdb\GenX.mdb 29 Oct 2017 20:51:24**

**Calibration: C:\MassLynx\TargetLynx.pro\Curvedb\GenX\_Cal\_180125.cdb 25 Jan 2018 16:53:12**

**Name: 1801250D17, ID: CCV, Date: 25-Jan-2018, Time: 21:04:58, Description: CCV, User: ADM, Job: , Lab:**

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

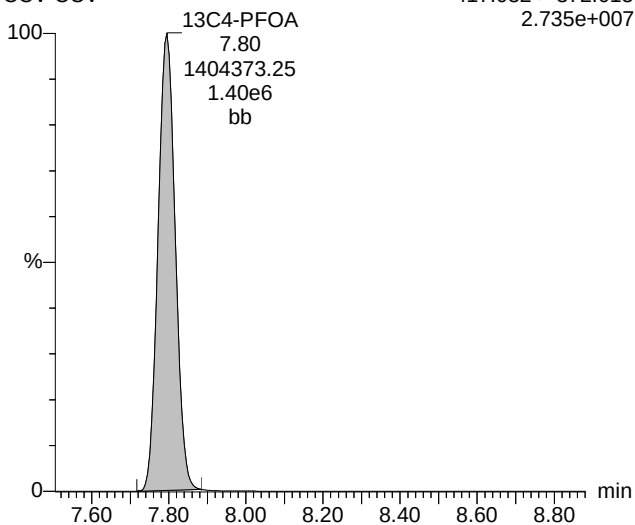
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D17, ID: CCV, Date: 25-Jan-2018, Time: 21:04:58, Description: CCV, User: ADM, Job: , Lab:

### 13C4-PFOA

1801250D17 Smooth(Mn,2x2)  
CCV CCV

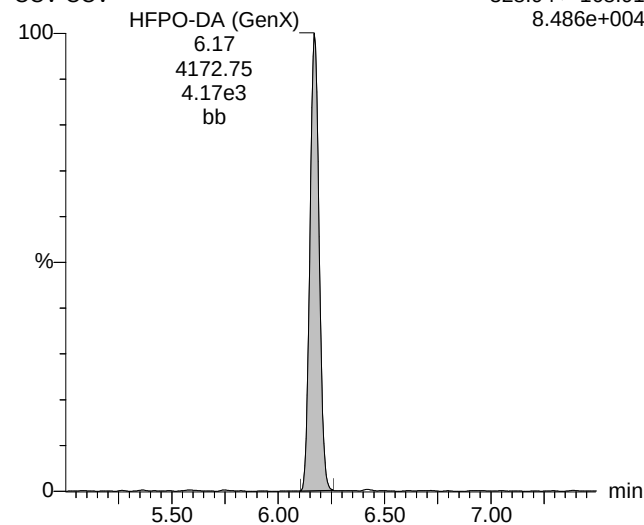
F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.735e+007



### HFPO-DA (GenX)

1801250D17 Smooth(Mn,2x2)  
CCV CCV

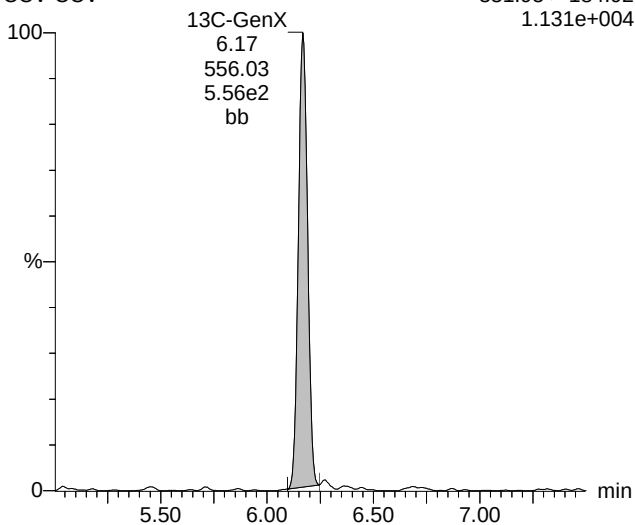
F1:MRM of 2 channels,ES-  
328.94 > 168.91  
8.486e+004



### 13C-GenX

1801250D17 Smooth(Mn,2x2)  
CCV CCV

F2:MRM of 2 channels,ES-  
331.95 > 184.92  
1.131e+004



Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D18, ID: 216376, Date: 25-Jan-2018, Time: 21:35:38, Description: 216376, User: ADM, Job: , Lab:**

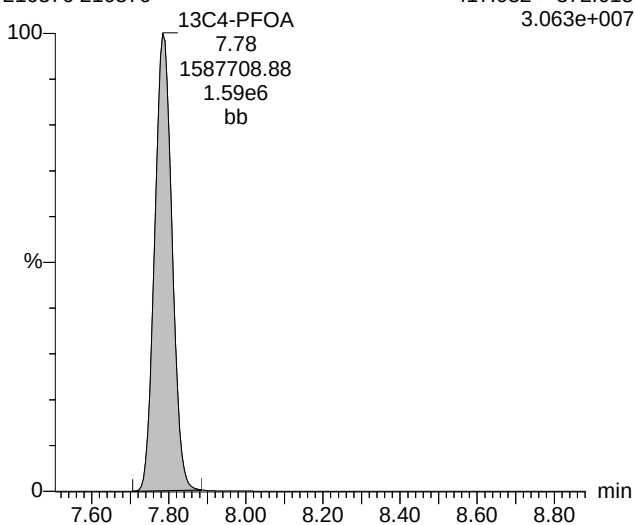
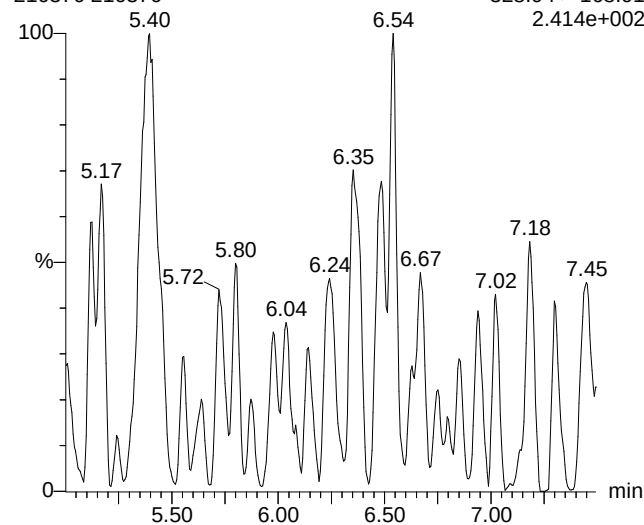
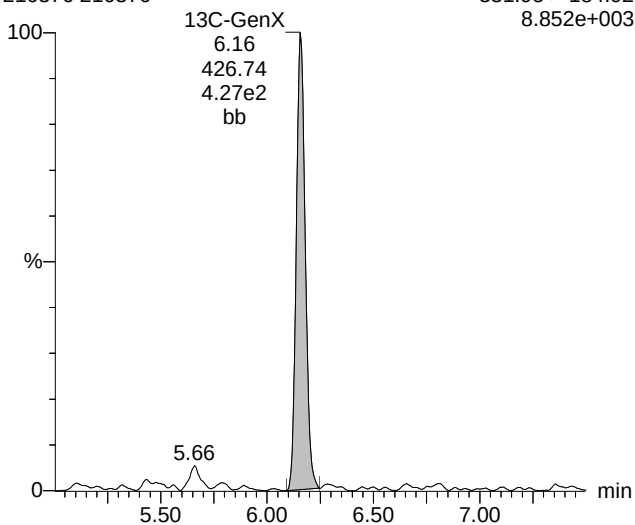
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D18, ID: 216376, Date: 25-Jan-2018, Time: 21:35:38, Description: 216376, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D18 Smooth(Mn,2x2)  
216376 216376F3:MRM of 1 channel,ES-  
417.032 > 372.015  
3.063e+007**HFPO-DA (GenX)**1801250D18 Smooth(Mn,2x2)  
216376 216376F1:MRM of 2 channels,ES-  
328.94 > 168.91  
2.414e+002**13C-GenX**1801250D18 Smooth(Mn,2x2)  
216376 216376F2:MRM of 2 channels,ES-  
331.95 > 184.92  
8.852e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D19, ID: 216377, Date: 25-Jan-2018, Time: 22:06:24, Description: 216377, User: ADM, Job: , Lab:**

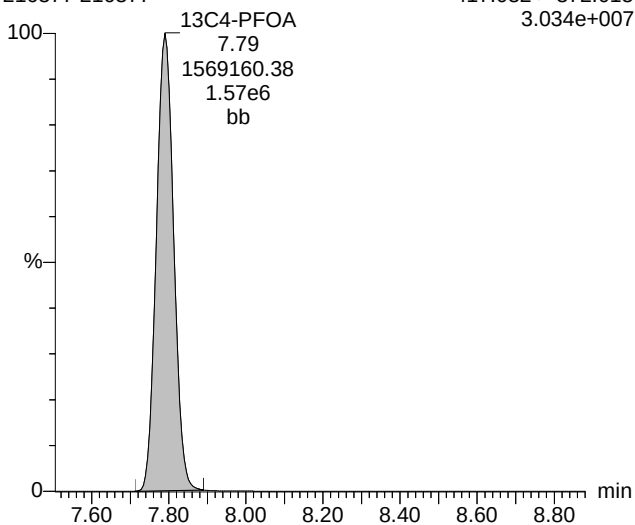
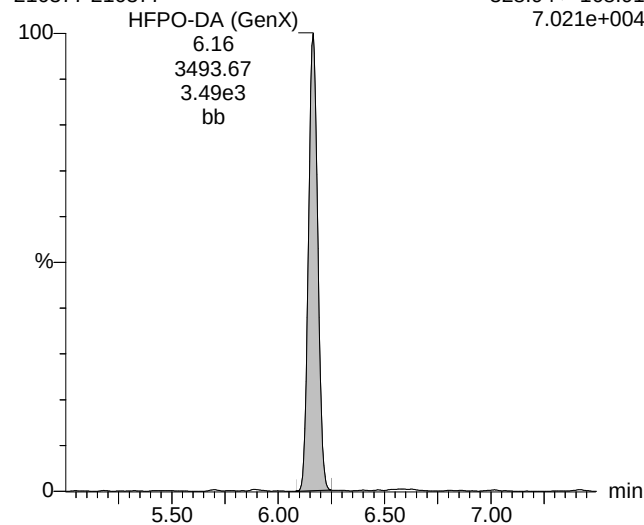
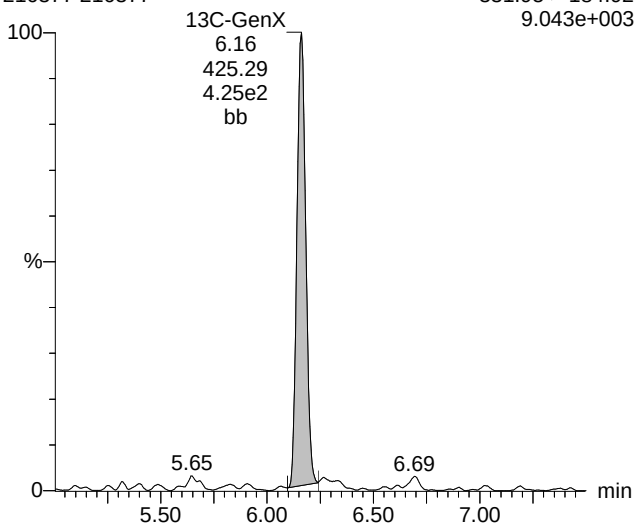
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D19, ID: 216377, Date: 25-Jan-2018, Time: 22:06:24, Description: 216377, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D19 Smooth(Mn,2x2)  
216377 216377F3:MRM of 1 channel,ES-  
417.032 > 372.015  
3.034e+007**HFPO-DA (GenX)**1801250D19 Smooth(Mn,2x2)  
216377 216377F1:MRM of 2 channels,ES-  
328.94 > 168.91  
7.021e+004**13C-GenX**1801250D19 Smooth(Mn,2x2)  
216377 216377F2:MRM of 2 channels,ES-  
331.95 > 184.92  
9.043e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D28, ID: CCV, Date: 26-Jan-2018, Time: 02:42:45, Description: CCV, User: ADM, Job: , Lab:**



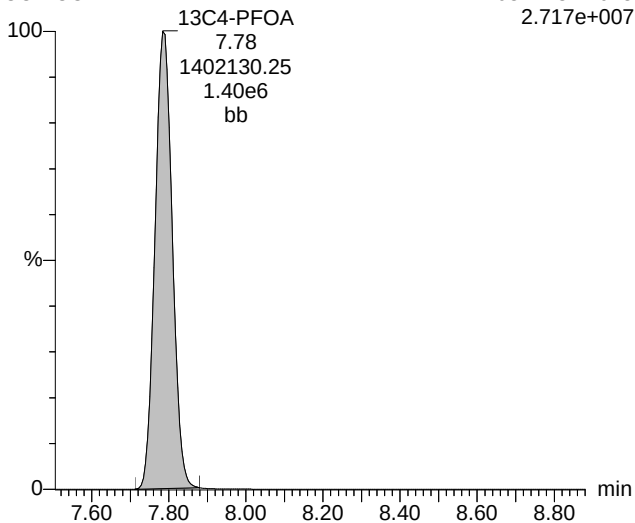
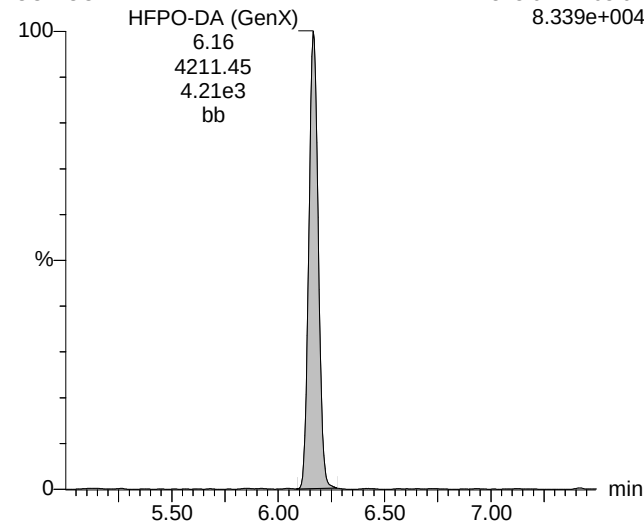
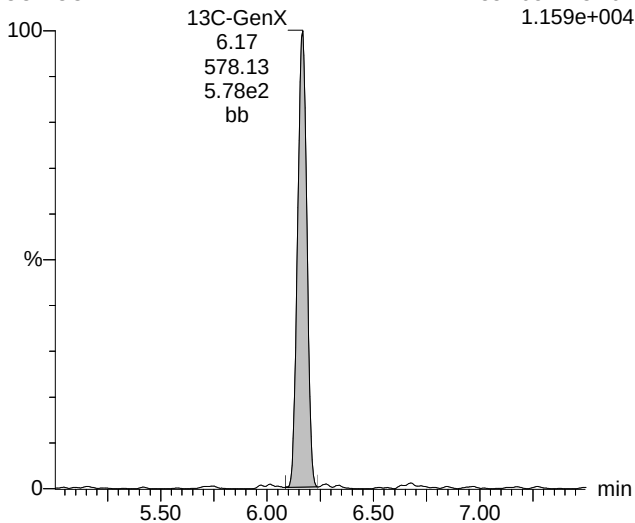
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D28, ID: CCV, Date: 26-Jan-2018, Time: 02:42:45, Description: CCV, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D28 Smooth(Mn,2x2)  
CCV CCVF3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.717e+007**HFPO-DA (GenX)**1801250D28 Smooth(Mn,2x2)  
CCV CCVF1:MRM of 2 channels,ES-  
328.94 > 168.91  
8.339e+004**13C-GenX**1801250D28 Smooth(Mn,2x2)  
CCV CCVF2:MRM of 2 channels,ES-  
331.95 > 184.92  
1.159e+004

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D29, ID: 0097\_1, Date: 26-Jan-2018, Time: 03:13:28, Description: 0097\_1, User: ADM, Job: , Lab:**

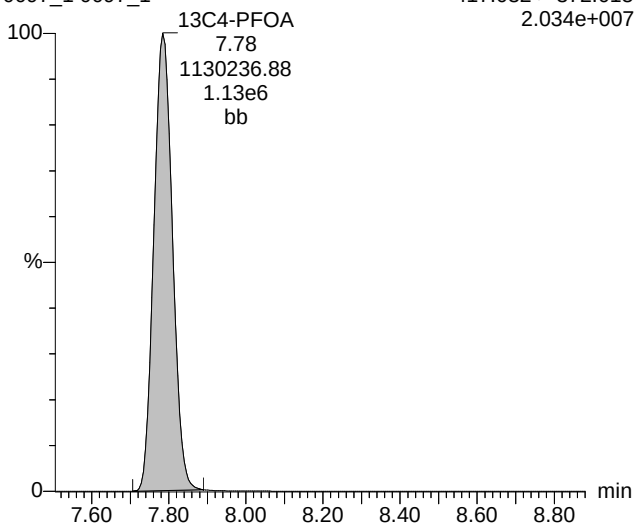
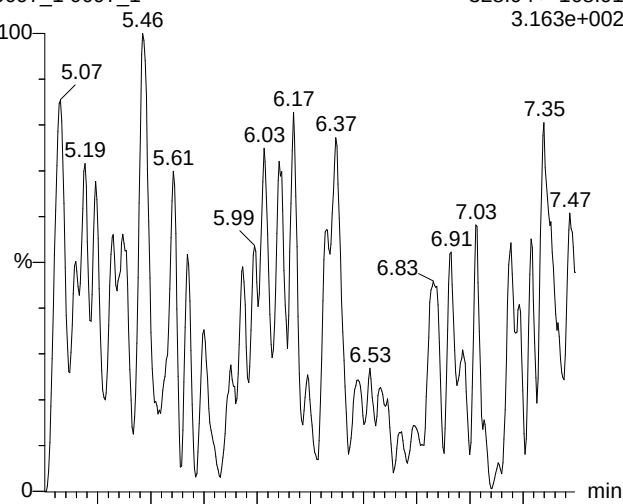
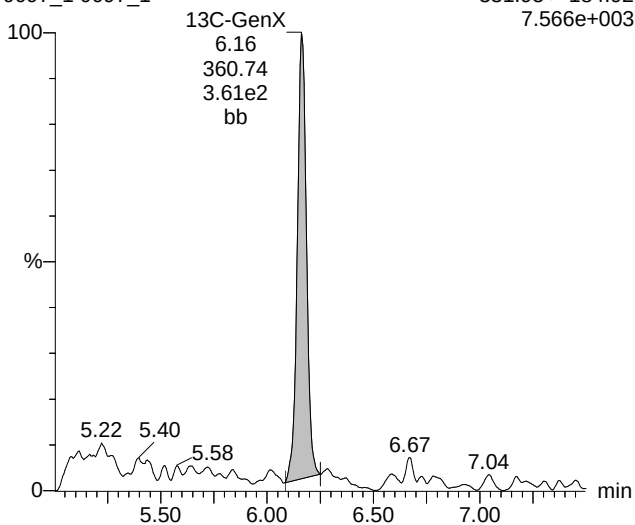
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D29, ID: 0097\_1, Date: 26-Jan-2018, Time: 03:13:28, Description: 0097\_1, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D29 Smooth(Mn,2x2)  
0097\_1 0097\_1F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.034e+007**HFPO-DA (GenX)**1801250D29 Smooth(Mn,2x2)  
0097\_1 0097\_1F1:MRM of 2 channels,ES-  
328.94 > 168.91  
3.163e+002**13C-GenX**1801250D29 Smooth(Mn,2x2)  
0097\_1 0097\_1F2:MRM of 2 channels,ES-  
331.95 > 184.92  
7.566e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D30, ID: 0097\_2, Date: 26-Jan-2018, Time: 03:44:13, Description: 0097\_2, User: ADM, Job: , Lab:**

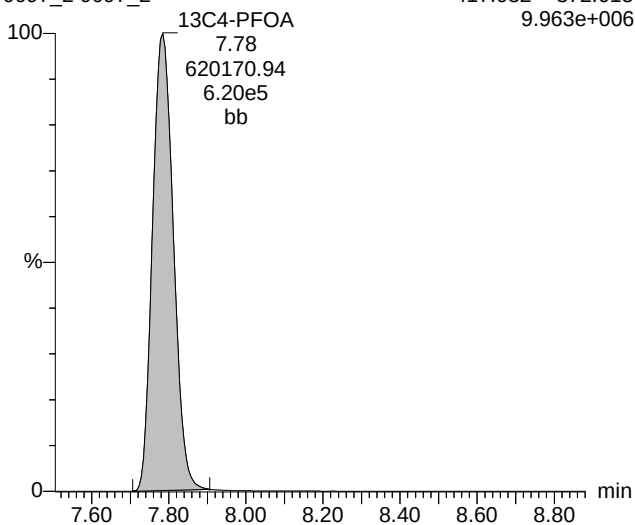
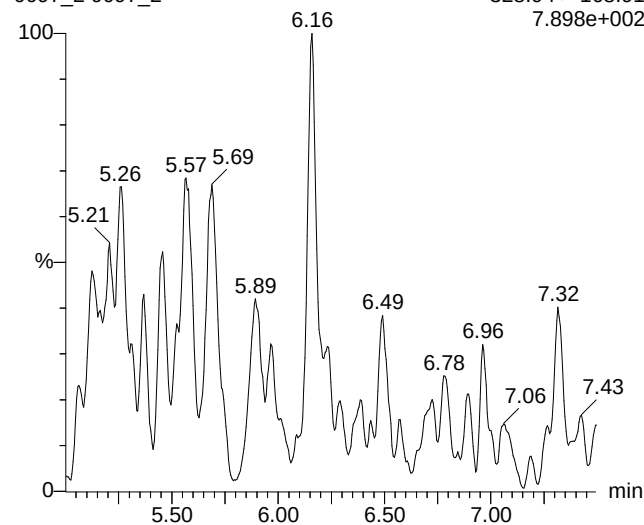
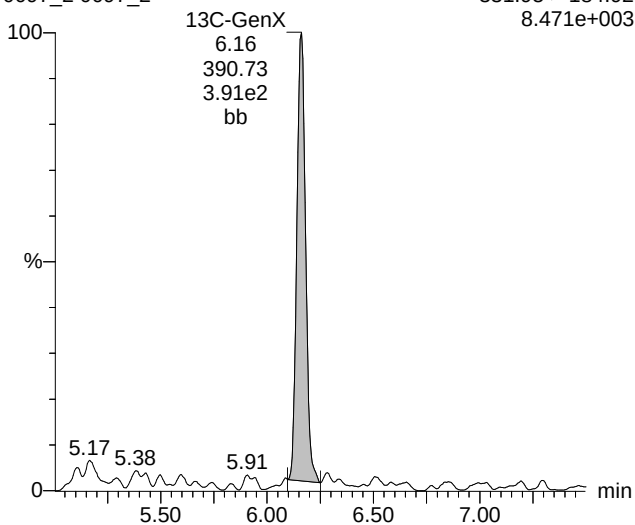
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D30, ID: 0097\_2, Date: 26-Jan-2018, Time: 03:44:13, Description: 0097\_2, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D30 Smooth(Mn,2x2)  
0097\_2 0097\_2F3:MRM of 1 channel,ES-  
417.032 > 372.015  
9.963e+006**HFPO-DA (GenX)**1801250D30 Smooth(Mn,2x2)  
0097\_2 0097\_2F1:MRM of 2 channels,ES-  
328.94 > 168.91  
7.898e+002**13C-GenX**1801250D30 Smooth(Mn,2x2)  
0097\_2 0097\_2F2:MRM of 2 channels,ES-  
331.95 > 184.92  
8.471e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D31, ID: 0097\_3, Date: 26-Jan-2018, Time: 04:14:48, Description: 0097\_3, User: ADM, Job: , Lab:**

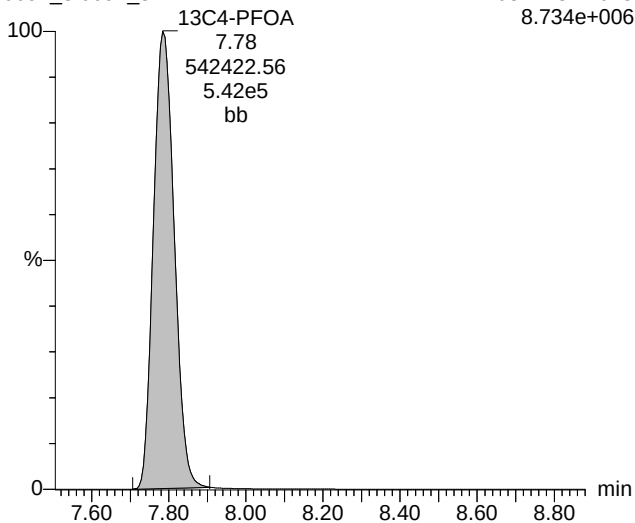
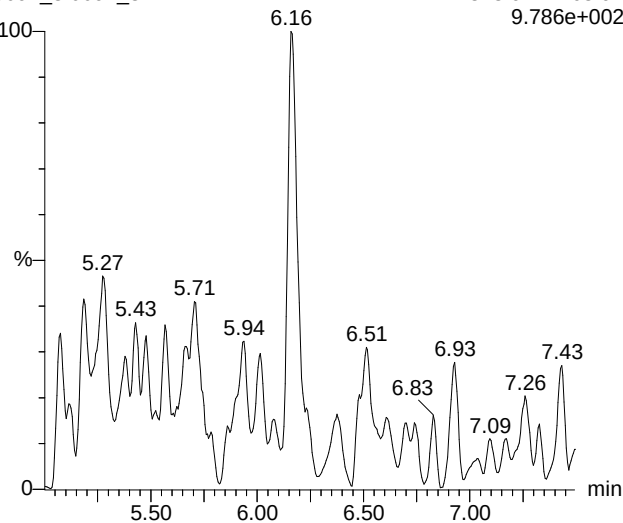
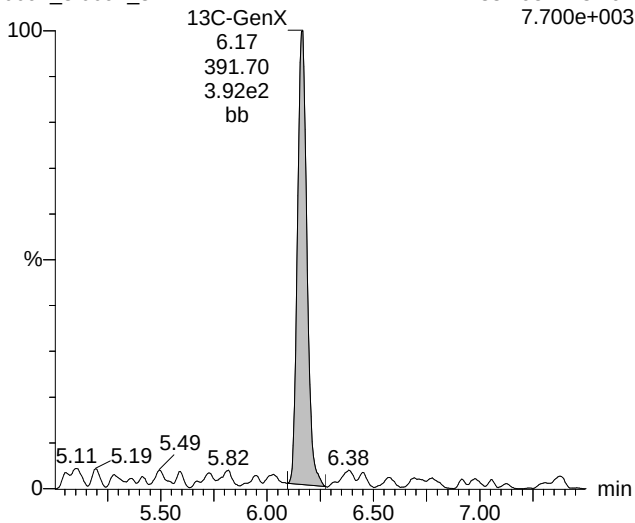
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D31, ID: 0097\_3, Date: 26-Jan-2018, Time: 04:14:48, Description: 0097\_3, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D31 Smooth(Mn,2x2)  
0097\_3 0097\_3F3:MRM of 1 channel,ES-  
417.032 > 372.015  
8.734e+006**HFPO-DA (GenX)**1801250D31 Smooth(Mn,2x2)  
0097\_3 0097\_3F1:MRM of 2 channels,ES-  
328.94 > 168.91  
9.786e+002**13C-GenX**1801250D31 Smooth(Mn,2x2)  
0097\_3 0097\_3F2:MRM of 2 channels,ES-  
331.95 > 184.92  
7.700e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D32, ID: 0097\_4, Date: 26-Jan-2018, Time: 04:45:30, Description: 0097\_4, User: ADM, Job: , Lab:**



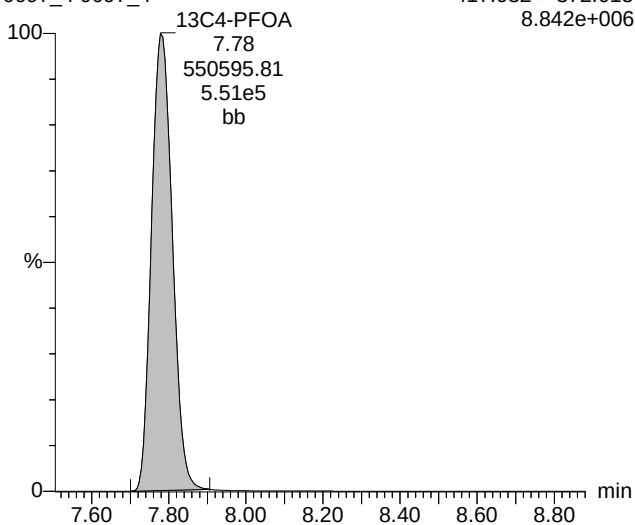
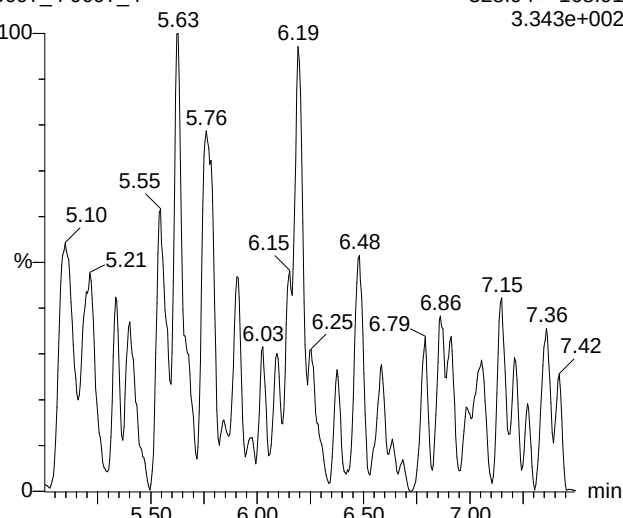
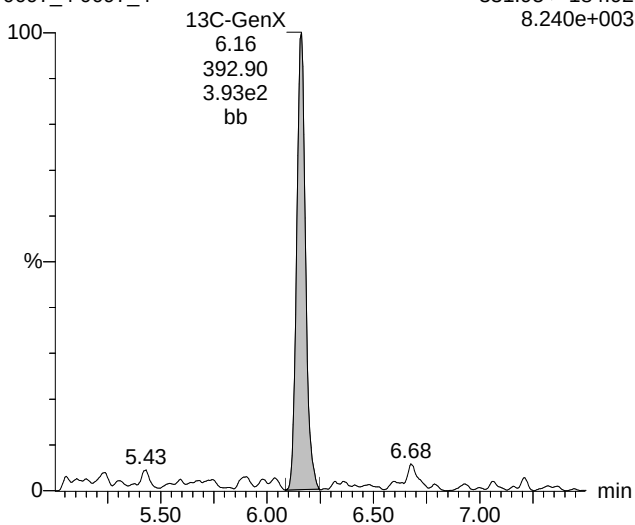
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D32, ID: 0097\_4, Date: 26-Jan-2018, Time: 04:45:30, Description: 0097\_4, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D32 Smooth(Mn,2x2)  
0097\_4 0097\_4F3:MRM of 1 channel,ES-  
417.032 > 372.015  
8.842e+006**HFPO-DA (GenX)**1801250D32 Smooth(Mn,2x2)  
0097\_4 0097\_4F1:MRM of 2 channels,ES-  
328.94 > 168.91  
3.343e+002**13C-GenX**1801250D32 Smooth(Mn,2x2)  
0097\_4 0097\_4F2:MRM of 2 channels,ES-  
331.95 > 184.92  
8.240e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D33, ID: 0097\_5, Date: 26-Jan-2018, Time: 05:16:13, Description: 0097\_5, User: ADM, Job: , Lab:**

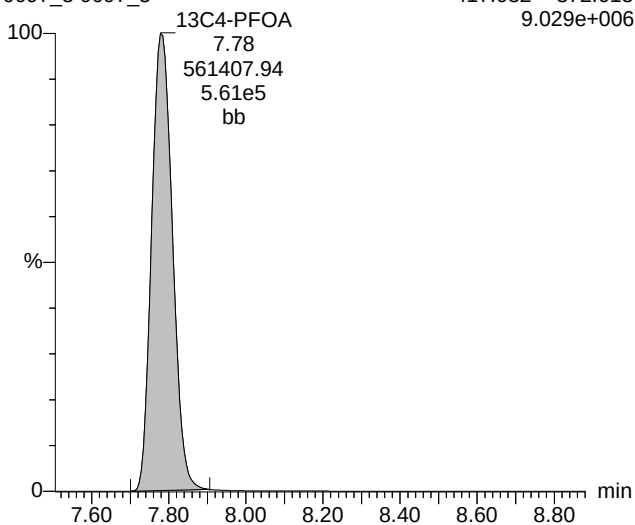
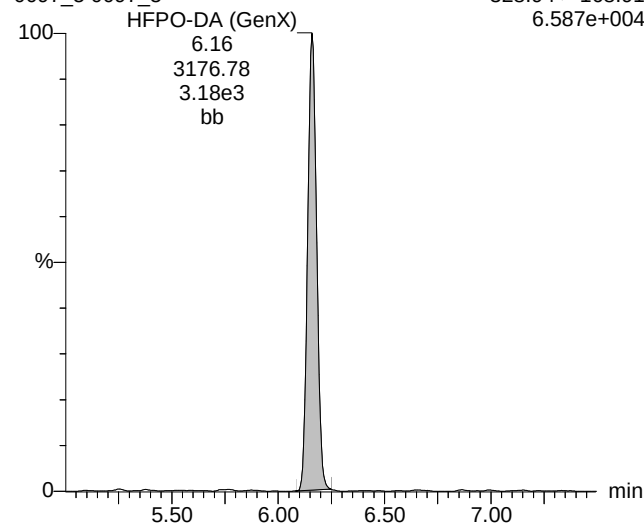
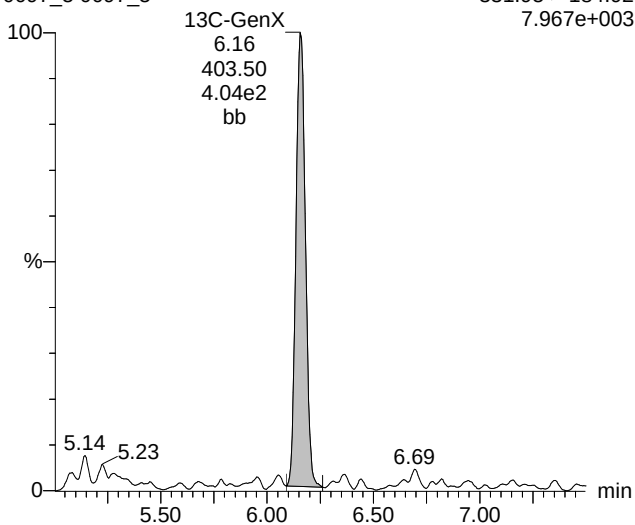
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D33, ID: 0097\_5, Date: 26-Jan-2018, Time: 05:16:13, Description: 0097\_5, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D33 Smooth(Mn,2x2)  
0097\_5 0097\_5F3:MRM of 1 channel,ES-  
417.032 > 372.015  
9.029e+006**HFPO-DA (GenX)**1801250D33 Smooth(Mn,2x2)  
0097\_5 0097\_5F1:MRM of 2 channels,ES-  
328.94 > 168.91  
6.587e+004**13C-GenX**1801250D33 Smooth(Mn,2x2)  
0097\_5 0097\_5F2:MRM of 2 channels,ES-  
331.95 > 184.92  
7.967e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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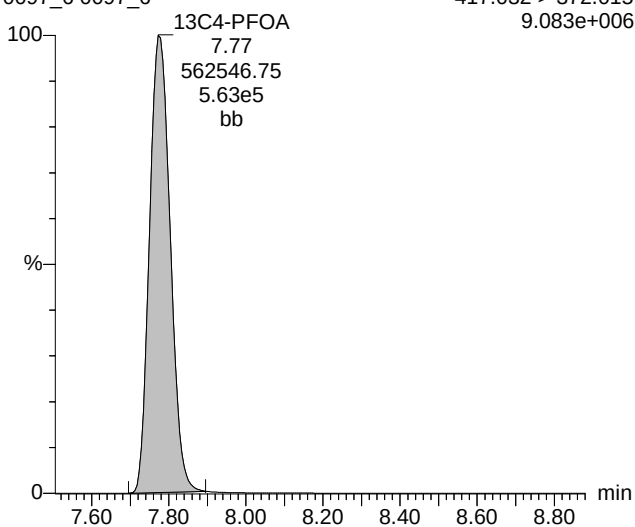
**Name: 1801250D34, ID: 0097\_6, Date: 26-Jan-2018, Time: 05:46:56, Description: 0097\_6, User: ADM, Job: , Lab:**

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D34, ID: 0097\_6, Date: 26-Jan-2018, Time: 05:46:56, Description: 0097\_6, User: ADM, Job: , Lab:

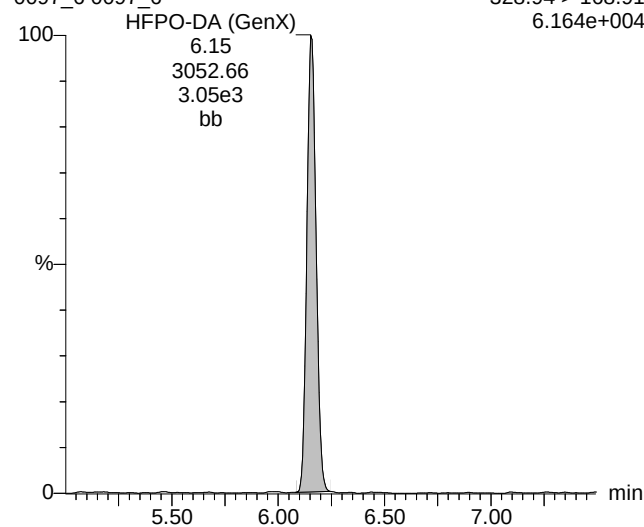
### 13C4-PFOA

1801250D34 Smooth(Mn,2x2)  
0097\_6 0097\_6  
F3:MRM of 1 channel,ES-  
417.032 > 372.015  
9.083e+006



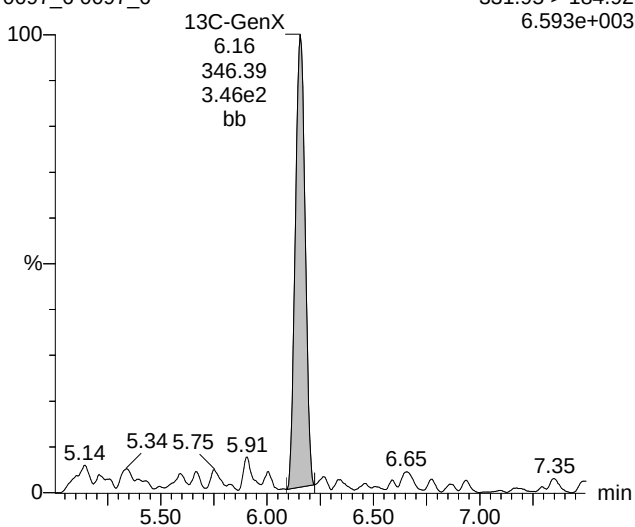
### HFPO-DA (GenX)

1801250D34 Smooth(Mn,2x2)  
0097\_6 0097\_6  
F1:MRM of 2 channels,ES-  
328.94 > 168.91  
6.164e+004



### 13C-GenX

1801250D34 Smooth(Mn,2x2)  
0097\_6 0097\_6  
F2:MRM of 2 channels,ES-  
331.95 > 184.92  
6.593e+003



Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D35, ID: 0097\_7, Date: 26-Jan-2018, Time: 06:17:39, Description: 0097\_7, User: ADM, Job: , Lab:**

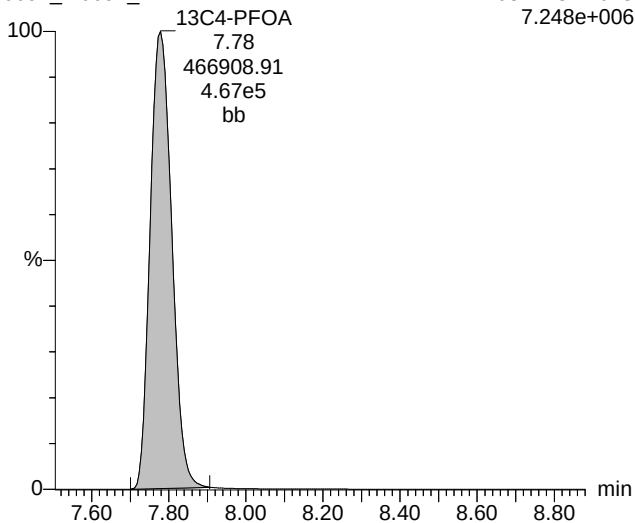
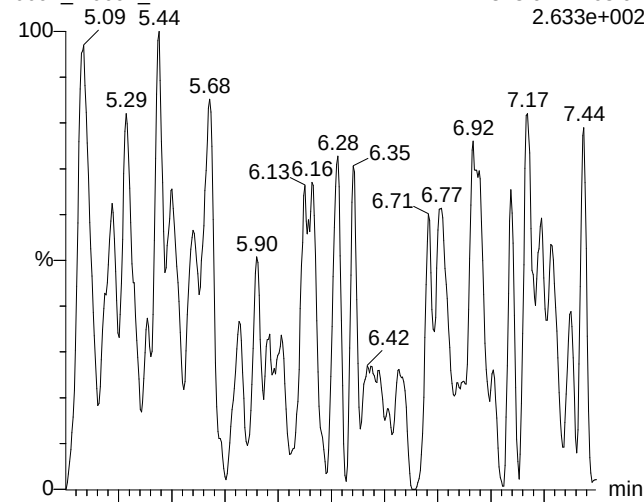
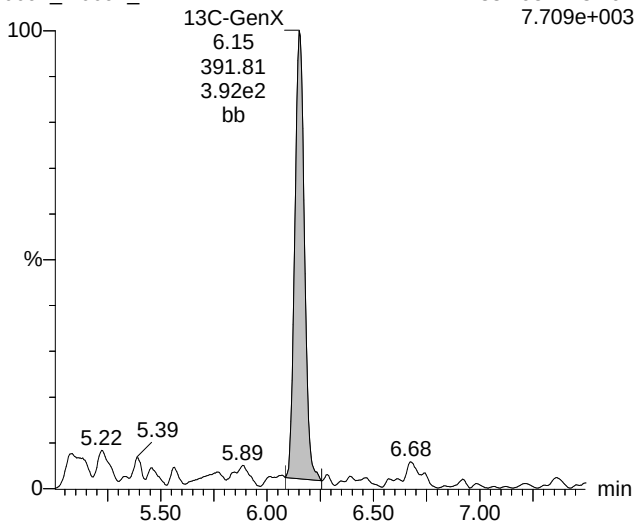
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D35, ID: 0097\_7, Date: 26-Jan-2018, Time: 06:17:39, Description: 0097\_7, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D35 Smooth(Mn,2x2)  
0097\_7 0097\_7F3:MRM of 1 channel,ES-  
417.032 > 372.015  
7.248e+006**HFPO-DA (GenX)**1801250D35 Smooth(Mn,2x2)  
0097\_7 0097\_7F1:MRM of 2 channels,ES-  
328.94 > 168.91  
2.633e+002**13C-GenX**1801250D35 Smooth(Mn,2x2)  
0097\_7 0097\_7F2:MRM of 2 channels,ES-  
331.95 > 184.92  
7.709e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D36, ID: 0097\_8, Date: 26-Jan-2018, Time: 06:48:23, Description: 0097\_8, User: ADM, Job: , Lab:**



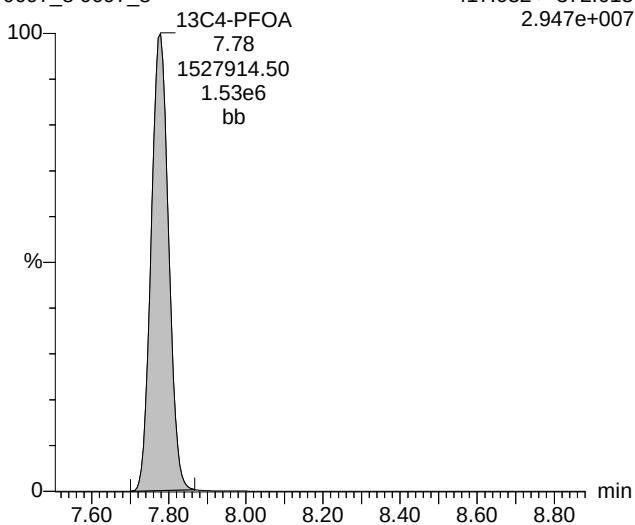
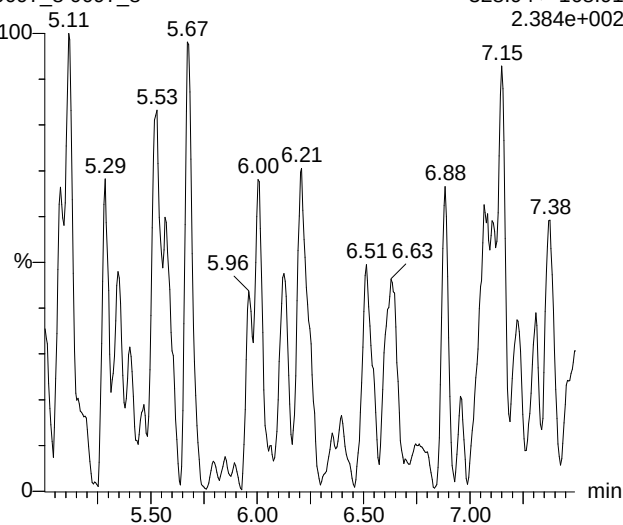
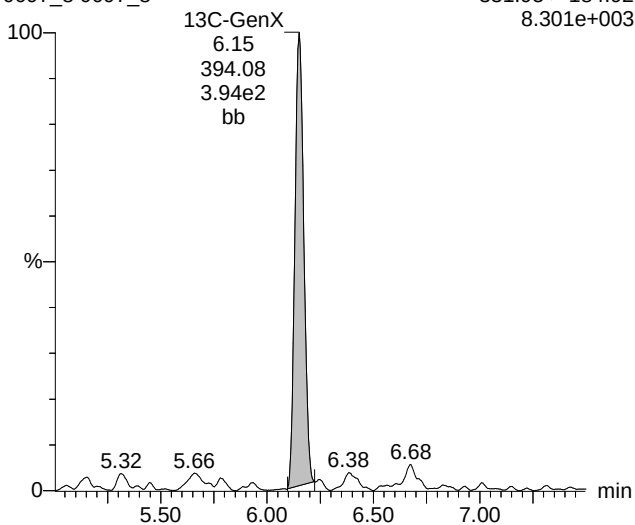
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D36, ID: 0097\_8, Date: 26-Jan-2018, Time: 06:48:23, Description: 0097\_8, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D36 Smooth(Mn,2x2)  
0097\_8 0097\_8F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.947e+007**HFPO-DA (GenX)**1801250D36 Smooth(Mn,2x2)  
0097\_8 0097\_8F1:MRM of 2 channels,ES-  
328.94 > 168.91  
2.384e+002**13C-GenX**1801250D36 Smooth(Mn,2x2)  
0097\_8 0097\_8F2:MRM of 2 channels,ES-  
331.95 > 184.92  
8.301e+003

Dataset: C:\MassLynx\Default.pro\180125\_2.qld  
Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time  
Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

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**Name: 1801250D37, ID: CCV, Date: 26-Jan-2018, Time: 07:19:06, Description: CCV, User: ADM, Job: , Lab:**

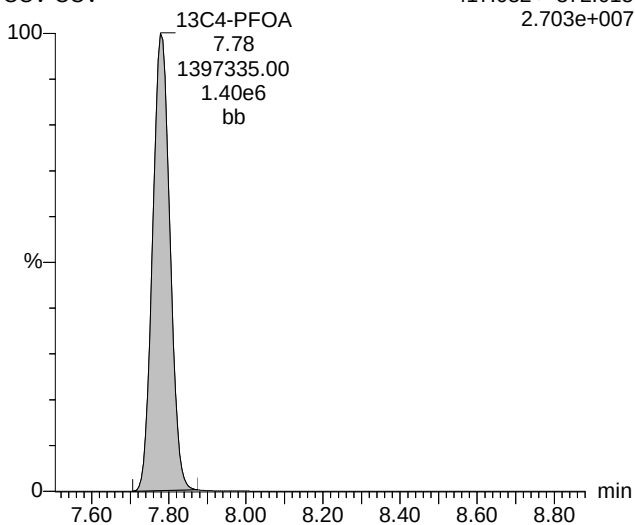
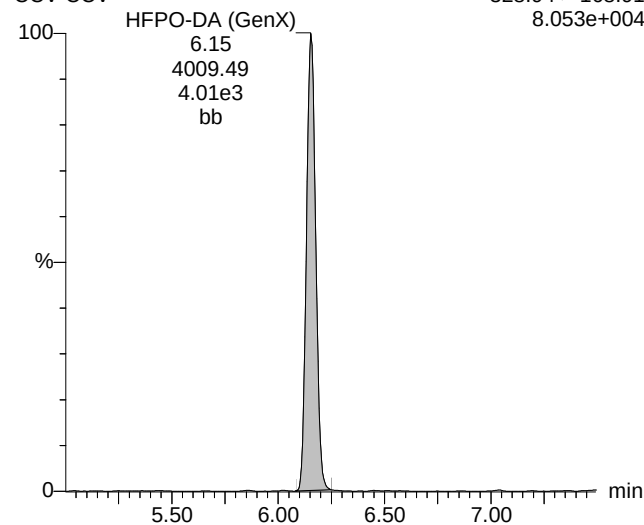
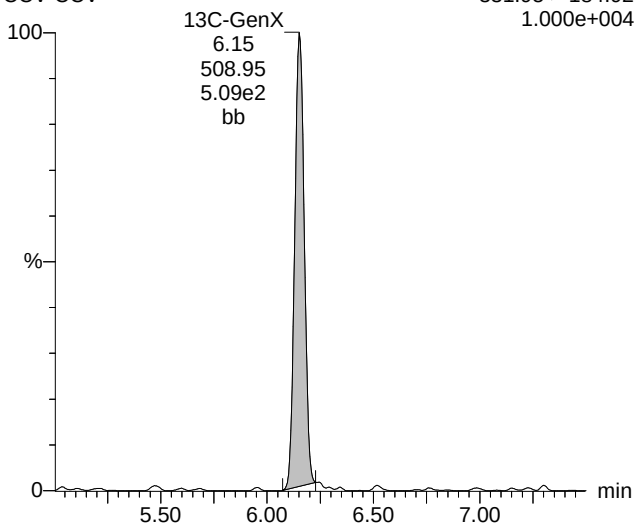
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_2.qld

Last Altered: Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed: Friday, January 26, 2018 09:55:01 Eastern Standard Time

Name: 1801250D37, ID: CCV, Date: 26-Jan-2018, Time: 07:19:06, Description: CCV, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D37 Smooth(Mn,2x2)  
CCV CCVF3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.703e+007**HFPO-DA (GenX)**1801250D37 Smooth(Mn,2x2)  
CCV CCVF1:MRM of 2 channels,ES-  
328.94 > 168.91  
8.053e+004**13C-GenX**1801250D37 Smooth(Mn,2x2)  
CCV CCVF2:MRM of 2 channels,ES-  
331.95 > 184.92  
1.000e+004

Instrument: TQS1

Dataset:        C:\MassLynx\Default.pro\180125\_2.qld

Last Altered:    Friday, January 26, 2018 09:29:23 Eastern Standard Time

Printed:         Friday, January 26, 2018 09:55:01 Eastern Standard Time

Allen\_Martin , 1/26/2018, 9:56:04 am

| Sample ID | Date      | Time     | Event             | Details                                            | Comments | Peak ID |
|-----------|-----------|----------|-------------------|----------------------------------------------------|----------|---------|
|           | 26-Jan-18 | 09:28:38 | Process Extract   |                                                    |          |         |
|           | 26-Jan-18 | 09:28:38 | Process Integrate |                                                    |          |         |
|           | 26-Jan-18 | 09:28:38 | Process Quantify  |                                                    |          |         |
|           | 26-Jan-18 | 09:28:38 | Dataset Created   |                                                    |          |         |
| 15        | 26-Jan-18 | 09:29:16 | Peak added        | Sample:1801250D31, Compound:HFPO-DA (GenX), RT:... |          | 6       |
| 15        | 26-Jan-18 | 09:29:23 | Peak deleted      | Sample:1801250D31, Compound:HFPO-DA (GenX), RT:... |          | 6       |
|           | 26-Jan-18 | 09:30:55 | Dataset Saved     | Saved to 'C:\MassLynx\Default.pro\180125_2.qld'    |          |         |

# **GenX**

## **Initial Calibration Data**

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time



Method: C:\MassLynx\TargetLynx.pro\Methdb\GenX.mdb 29 Oct 2017 20:51:24

Calibration: C:\MassLynx\TargetLynx.pro\Curvedb\GenX\_Cal\_180125.cdb 25 Jan 2018 16:53:12

Name: 1801250D09, ID: ICAL1, Date: 25-Jan-2018, Time: 13:13:27, Description: ICAL1, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.17 | 390.447     | 505.343     | 19.316      | bb        | 2.54 | 1.6  |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 505.343     | 1271520.875 | 0.010       | MM        | 25.5 | 1.8  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.80 | 1271520.875 |             | 1271520.875 | bb        | 24.9 | -0.5 |

Name: 1801250D10, ID: ICAL2, Date: 25-Jan-2018, Time: 13:44:06, Description: ICAL2, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.17 | 808.837     | 480.859     | 42.052      | bb        | 5.53 | 10.6 |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 480.859     | 1298592.000 | 0.009       | bb        | 23.7 | -5.1 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.80 | 1298592.000 |             | 1298592.000 | bb        | 25.4 | 1.7  |

Name: 1801250D11, ID: ICAL3, Date: 25-Jan-2018, Time: 14:14:49, Description: ICAL3, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.17 | 1627.646    | 459.952     | 88.468      | bb        | 11.6 | 16.3 |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 459.952     | 1304384.875 | 0.009       | MM        | 22.6 | -9.6 |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.80 | 1304384.875 |             | 1304384.875 | bb        | 25.5 | 2.1  |

Name: 1801250D12, ID: ICAL4, Date: 25-Jan-2018, Time: 14:45:32, Description: ICAL4, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.17 | 3225.133    | 513.189     | 157.112     | bb        | 20.7 | 3.3  |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 513.189     | 1268821.250 | 0.010       | bb        | 25.9 | 3.6  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.80 | 1268821.250 |             | 1268821.250 | bb        | 24.8 | -0.7 |

Name: 1801250D13, ID: ICAL5, Date: 25-Jan-2018, Time: 15:16:15, Description: ICAL5, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.17 | 4666.224    | 489.535     | 238.299     | bb        | 31.3 | 4.5  |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 489.535     | 1234121.250 | 0.010       | bb        | 25.4 | 1.6  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.80 | 1234121.250 |             | 1234121.250 | bb        | 24.2 | -3.4 |

Name: 1801250D14, ID: ICAL6, Date: 25-Jan-2018, Time: 15:46:59, Description: ICAL6, Instrument: XEVO-TQS#WAA289, Job: , User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.17 | 5921.119    | 520.267     | 284.523     | bb        | 37.4 | -6.5 |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 520.267     | 1313022.125 | 0.010       | bb        | 25.4 | 1.5  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.80 | 1313022.125 |             | 1313022.125 | bb        | 25.7 | 2.8  |

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Name: 1801250D15, ID: ICAL7, Date: 25-Jan-2018, Time: 16:17:44, Description: ICAL7, Instrument: XEVO-TQS#WAA289, Job: ,  
User: ADM

|   | # Name           | Trace             | RT   | Area        | IS Area     | Response    | Primar... | ug/L | %Dev |
|---|------------------|-------------------|------|-------------|-------------|-------------|-----------|------|------|
| 1 | 1 HFPO-DA (GenX) | 328.94 > 168.91   | 6.17 | 7627.832    | 518.271     | 367.946     | bb        | 48.4 | -3.2 |
| 2 | 2 13C-GenX       | 331.95 > 184.92   | 6.17 | 518.271     | 1251865.375 | 0.010       | MM        | 26.5 | 6.1  |
| 3 | 3 13C4-PFOA      | 417.032 > 372.015 | 7.80 | 1251865.375 |             | 1251865.375 | bb        | 24.5 | -2.0 |

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Method: C:\MassLynx\TargetLynx.pro\Methdb\GenX.mdb 29 Oct 2017 20:51:24

Calibration: C:\MassLynx\TargetLynx.pro\Curvedb\GenX\_Cal\_180125.cdb 25 Jan 2018 16:53:12

Name: 1801250D09, ID: ICAL1, Date: 25-Jan-2018, Time: 13:13:27, Description: ICAL1, User: ADM, Job: , Lab:



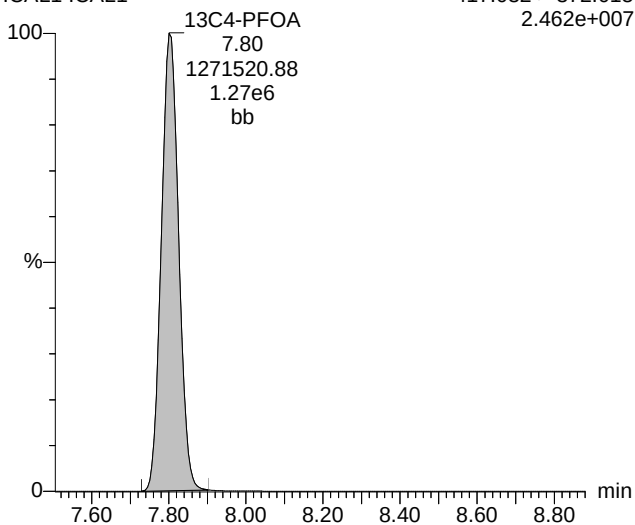
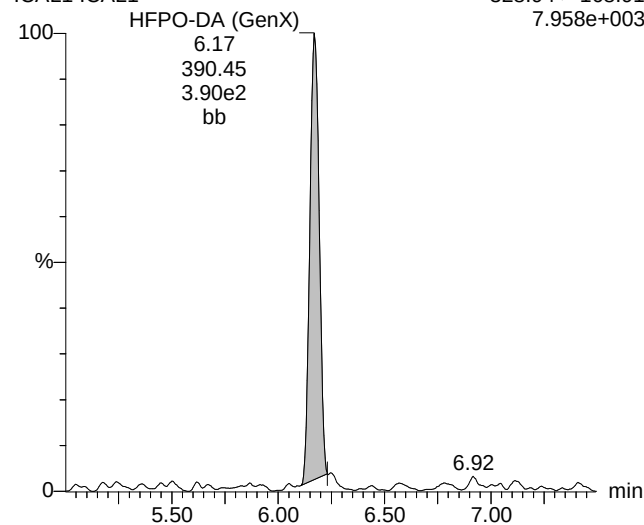
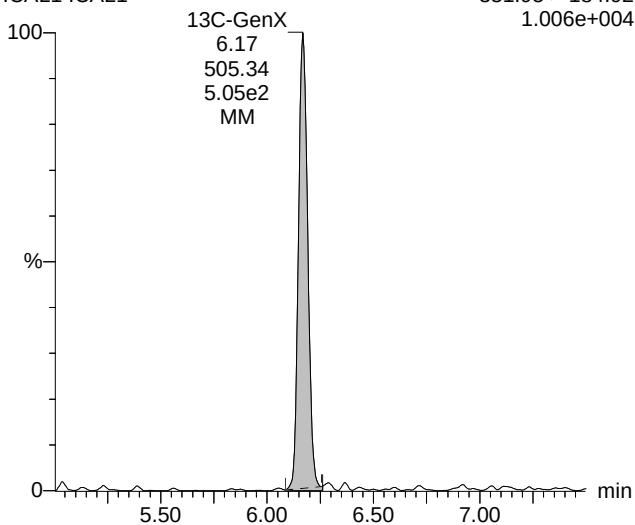
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Name: 1801250D09, ID: ICAL1, Date: 25-Jan-2018, Time: 13:13:27, Description: ICAL1, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D09 Smooth(Mn,2x2)  
ICAL1 ICAL1F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.462e+007**HFPO-DA (GenX)**1801250D09 Smooth(Mn,2x2)  
ICAL1 ICAL1F1:MRM of 2 channels,ES-  
328.94 > 168.91  
7.958e+003**13C-GenX**1801250D09 Smooth(Mn,2x2)  
ICAL1 ICAL1F2:MRM of 2 channels,ES-  
331.95 > 184.92  
1.006e+004

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

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**Name: 1801250D10, ID: ICAL2, Date: 25-Jan-2018, Time: 13:44:06, Description: ICAL2, User: ADM, Job: , Lab:**

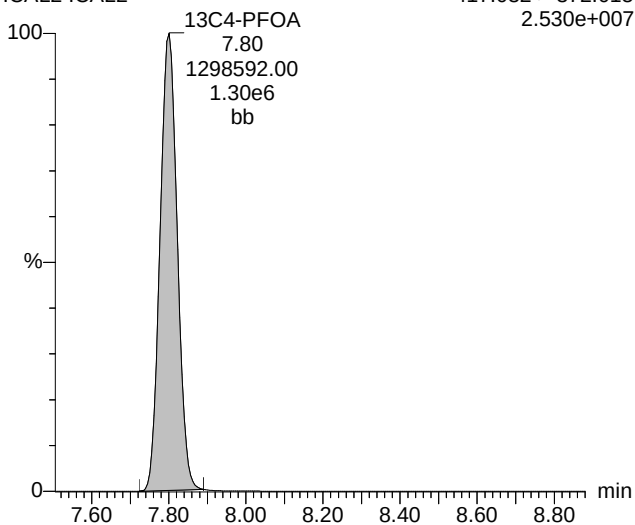
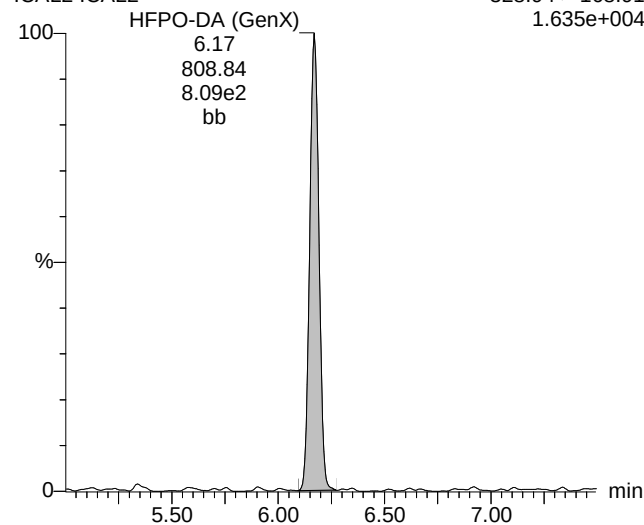
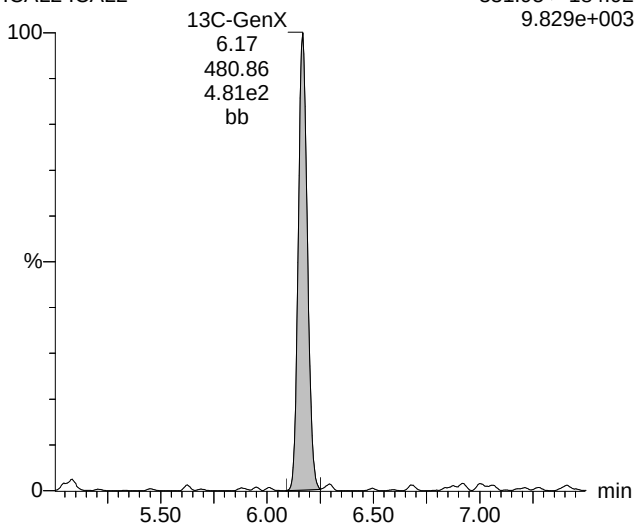
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Name: 1801250D10, ID: ICAL2, Date: 25-Jan-2018, Time: 13:44:06, Description: ICAL2, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D10 Smooth(Mn,2x2)  
ICAL2 ICAL2F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.530e+007**HFPO-DA (GenX)**1801250D10 Smooth(Mn,2x2)  
ICAL2 ICAL2F1:MRM of 2 channels,ES-  
328.94 > 168.91  
1.635e+004**13C-GenX**1801250D10 Smooth(Mn,2x2)  
ICAL2 ICAL2F2:MRM of 2 channels,ES-  
331.95 > 184.92  
9.829e+003

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

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**Name: 1801250D11, ID: ICAL3, Date: 25-Jan-2018, Time: 14:14:49, Description: ICAL3, User: ADM, Job: , Lab:**

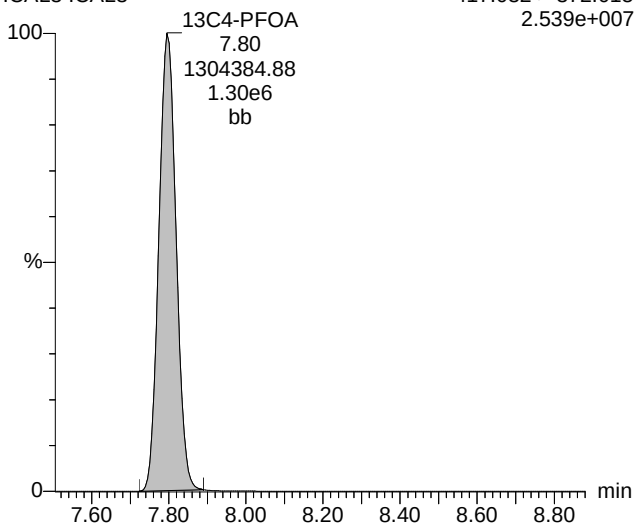
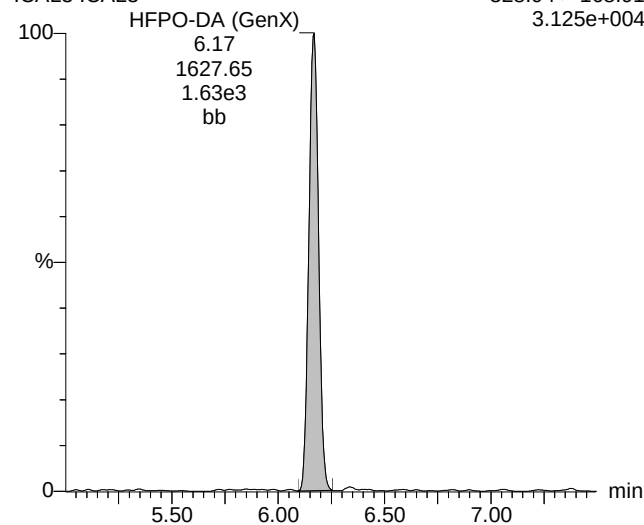
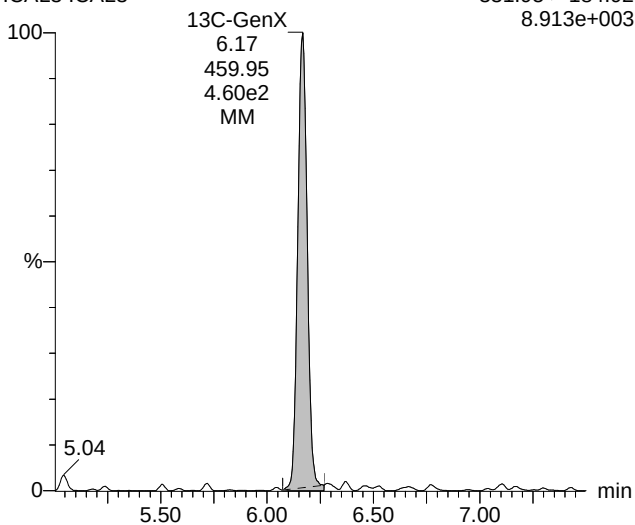
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Name: 1801250D11, ID: ICAL3, Date: 25-Jan-2018, Time: 14:14:49, Description: ICAL3, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D11 Smooth(Mn,2x2)  
ICAL3 ICAL3F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.539e+007**HFPO-DA (GenX)**1801250D11 Smooth(Mn,2x2)  
ICAL3 ICAL3F1:MRM of 2 channels,ES-  
328.94 > 168.91  
3.125e+004**13C-GenX**1801250D11 Smooth(Mn,2x2)  
ICAL3 ICAL3F2:MRM of 2 channels,ES-  
331.95 > 184.92  
8.913e+003

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

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**Name: 1801250D12, ID: ICAL4, Date: 25-Jan-2018, Time: 14:45:32, Description: ICAL4, User: ADM, Job: , Lab:**

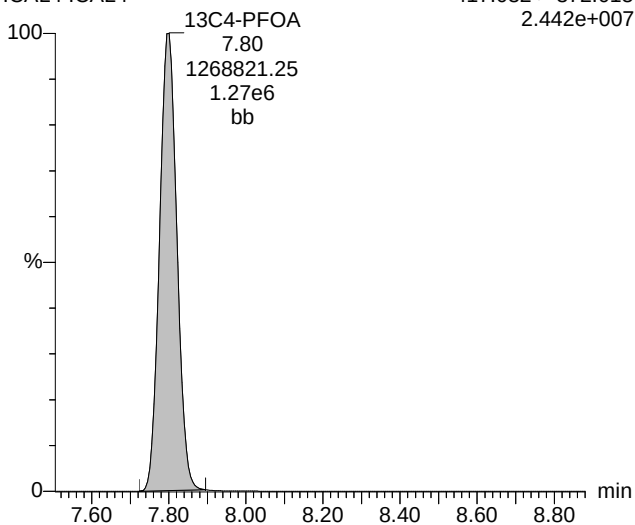
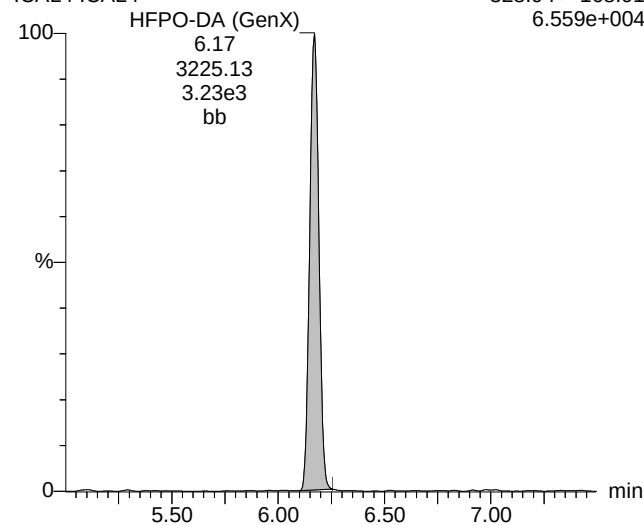
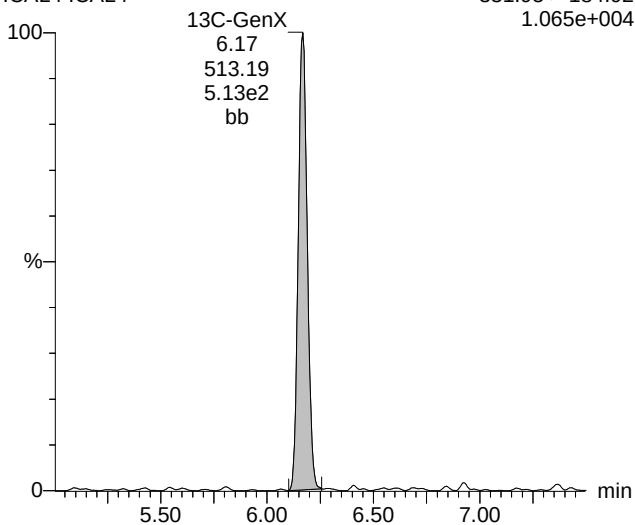
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Name: 1801250D12, ID: ICAL4, Date: 25-Jan-2018, Time: 14:45:32, Description: ICAL4, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D12 Smooth(Mn,2x2)  
ICAL4 ICAL4F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.442e+007**HFPO-DA (GenX)**1801250D12 Smooth(Mn,2x2)  
ICAL4 ICAL4F1:MRM of 2 channels,ES-  
328.94 > 168.91  
6.559e+004**13C-GenX**1801250D12 Smooth(Mn,2x2)  
ICAL4 ICAL4F2:MRM of 2 channels,ES-  
331.95 > 184.92  
1.065e+004

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

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**Name: 1801250D13, ID: ICAL5, Date: 25-Jan-2018, Time: 15:16:15, Description: ICAL5, User: ADM, Job: , Lab:**



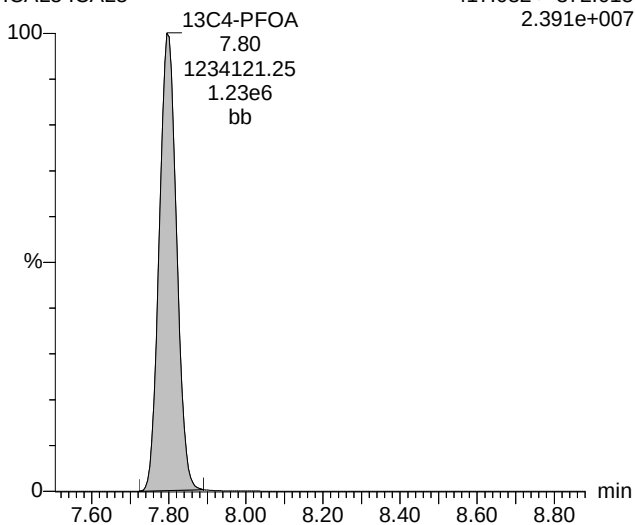
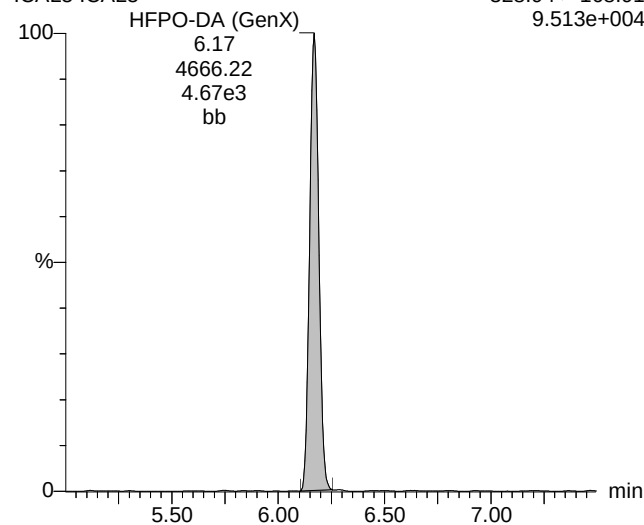
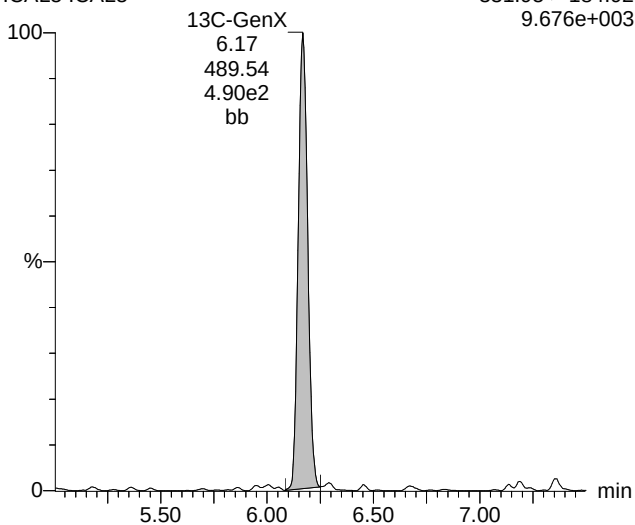
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Name: 1801250D13, ID: ICAL5, Date: 25-Jan-2018, Time: 15:16:15, Description: ICAL5, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D13 Smooth(Mn,2x2)  
ICAL5 ICAL5F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.391e+007**HFPO-DA (GenX)**1801250D13 Smooth(Mn,2x2)  
ICAL5 ICAL5F1:MRM of 2 channels,ES-  
328.94 > 168.91  
9.513e+004**13C-GenX**1801250D13 Smooth(Mn,2x2)  
ICAL5 ICAL5F2:MRM of 2 channels,ES-  
331.95 > 184.92  
9.676e+003

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

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**Name: 1801250D14, ID: ICAL6, Date: 25-Jan-2018, Time: 15:46:59, Description: ICAL6, User: ADM, Job: , Lab:**

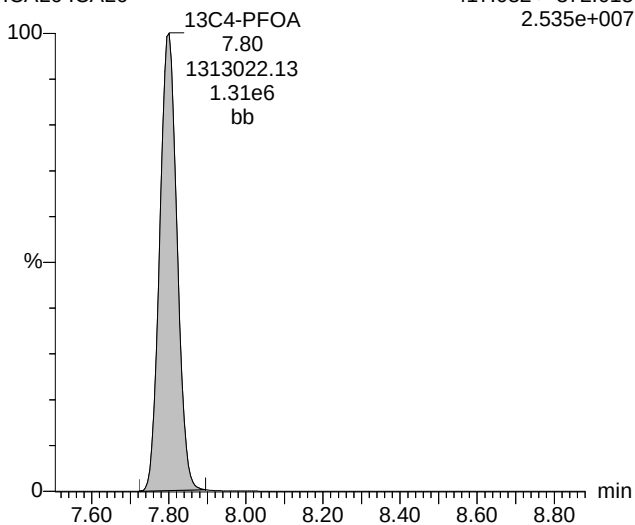
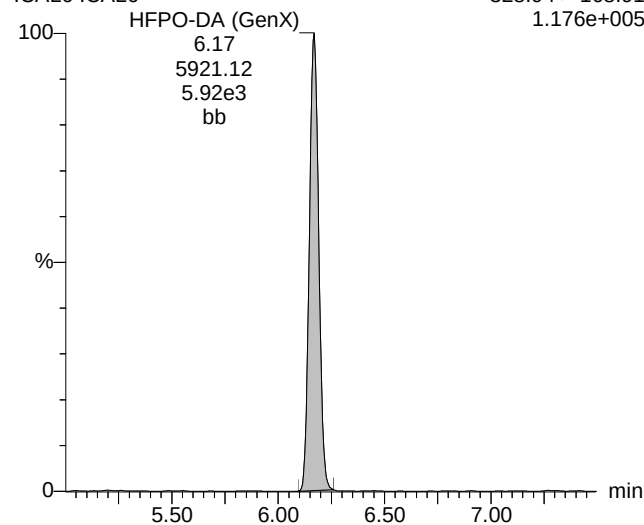
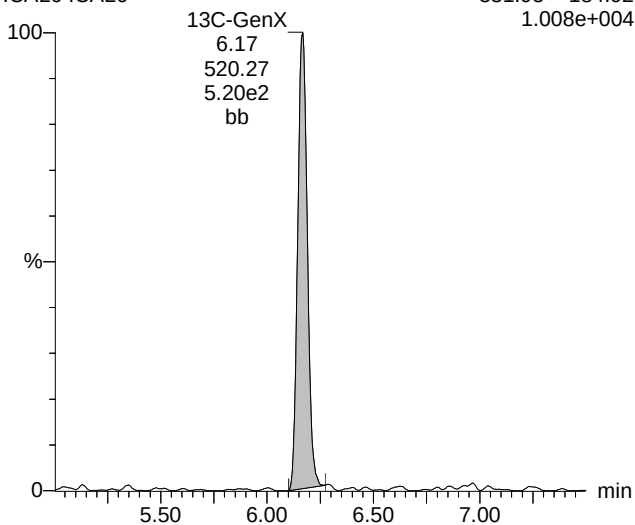
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Name: 1801250D14, ID: ICAL6, Date: 25-Jan-2018, Time: 15:46:59, Description: ICAL6, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D14 Smooth(Mn,2x2)  
ICAL6 ICAL6F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.535e+007**HFPO-DA (GenX)**1801250D14 Smooth(Mn,2x2)  
ICAL6 ICAL6F1:MRM of 2 channels,ES-  
328.94 > 168.91  
1.176e+005**13C-GenX**1801250D14 Smooth(Mn,2x2)  
ICAL6 ICAL6F2:MRM of 2 channels,ES-  
331.95 > 184.92  
1.008e+004

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

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**Name: 1801250D15, ID: ICAL7, Date: 25-Jan-2018, Time: 16:17:44, Description: ICAL7, User: ADM, Job: , Lab:**

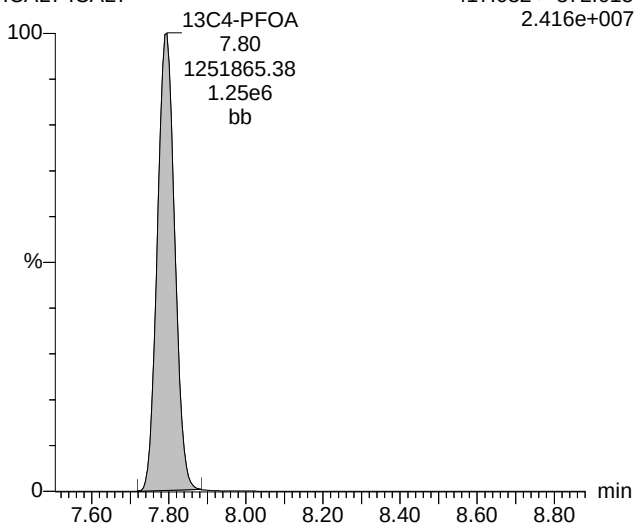
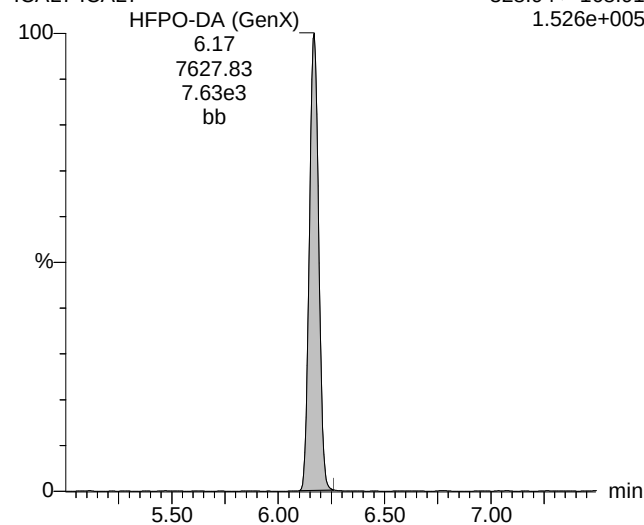
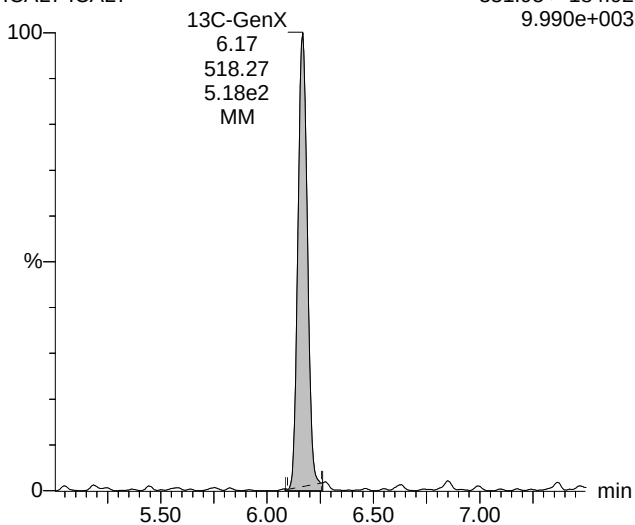
Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Name: 1801250D15, ID: ICAL7, Date: 25-Jan-2018, Time: 16:17:44, Description: ICAL7, User: ADM, Job: , Lab:

**13C4-PFOA**1801250D15 Smooth(Mn,2x2)  
ICAL7 ICAL7F3:MRM of 1 channel,ES-  
417.032 > 372.015  
2.416e+007**HFPO-DA (GenX)**1801250D15 Smooth(Mn,2x2)  
ICAL7 ICAL7F1:MRM of 2 channels,ES-  
328.94 > 168.91  
1.526e+005**13C-GenX**1801250D15 Smooth(Mn,2x2)  
ICAL7 ICAL7F2:MRM of 2 channels,ES-  
331.95 > 184.92  
9.990e+003

Instrument: TQS1

Dataset: C:\MassLynx\Default.pro\180125\_GenX\_Calibration.qld

Last Altered: Thursday, January 25, 2018 16:53:12 Eastern Standard Time

Printed: Friday, January 26, 2018 09:11:23 Eastern Standard Time

Allen\_Martin , 1/26/2018, 9:15:40 am

| Sample ID | Date      | Time     | Event                 | Details                                                | Comments | Peak ID |
|-----------|-----------|----------|-----------------------|--------------------------------------------------------|----------|---------|
|           | 25-Jan-18 | 16:52:28 | Process Extract       |                                                        |          |         |
|           | 25-Jan-18 | 16:52:28 | Process Integrate     |                                                        |          |         |
|           | 25-Jan-18 | 16:52:28 | Process Calibrate     |                                                        |          |         |
|           | 25-Jan-18 | 16:52:28 | Process Quantify      |                                                        |          |         |
|           | 25-Jan-18 | 16:52:28 | Dataset Created       |                                                        |          |         |
| 1         | 25-Jan-18 | 16:52:50 | Pre modification peak | Sample:1801250D09, Compound:13C-GenX, RT:6.167         |          | 4       |
| 1         | 25-Jan-18 | 16:52:50 | Peak modified         | Sample:1801250D09, Compound:13C-GenX, RT:6.167         |          | 4       |
| 3         | 25-Jan-18 | 16:52:59 | Pre modification peak | Sample:1801250D11, Compound:13C-GenX, RT:6.167         |          | 4       |
| 3         | 25-Jan-18 | 16:52:59 | Peak modified         | Sample:1801250D11, Compound:13C-GenX, RT:6.167         |          | 4       |
| 7         | 25-Jan-18 | 16:53:12 | Pre modification peak | Sample:1801250D15, Compound:13C-GenX, RT:6.167         |          | 4       |
| 7         | 25-Jan-18 | 16:53:12 | Peak modified         | Sample:1801250D15, Compound:13C-GenX, RT:6.167         |          | 4       |
|           | 25-Jan-18 | 16:53:54 | Dataset Saved         | Saved to 'C:\MassLynx\Default.pro\180125_GenX_Calib... |          |         |
|           | 25-Jan-18 | 16:54:11 | Calibration Saved     | Saved to 'C:\MassLynx\TargetLynx.pro\Curvedb\GenX_C... |          |         |
|           | 25-Jan-18 | 16:54:20 | Dataset Saved         | Saved to 'C:\MassLynx\Default.pro\180125_GenX_Calib... |          |         |

# **GenX**

## **Prep, Standard, Run Logs**

# RunLog TQS1

## SGS North America

Method: GenX  
 Matrix: Water  
 Inst Batch: 180125

| Standards      |                 |
|----------------|-----------------|
| ICAL Lot No.   | <u>15-423-2</u> |
| CCV Lot No.    | <u>N/A</u>      |
| ICAL Batch ID: | <u>XLC1131</u>  |

| File name  | Sample ID / Dilution | Date / Time | Comments | RERUN | OPR | LIMS Batch |
|------------|----------------------|-------------|----------|-------|-----|------------|
| 1801250D09 | ICAL1                | 13:13:27    |          |       |     | XLC1131    |
| 1801250D10 | ICAL2                | 13:44:06    |          |       |     | XLC1131    |
| 1801250D11 | ICAL3                | 14:14:49    |          |       |     | XLC1131    |
| 1801250D12 | ICAL4                | 14:45:32    |          |       |     | XLC1131    |
| 1801250D13 | ICAL5                | 15:16:15    |          |       |     | XLC1131    |
| 1801250D14 | ICAL6                | 15:46:59    |          |       |     | XLC1131    |
| 1801250D15 | ICAL7                | 16:17:44    |          |       |     | XLC1131    |
|            |                      |             |          |       |     |            |

Analyst: \_\_\_\_\_

Allen\_Martin , 1/26/2018, 9:23:35 am

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Reveiwed by: \_\_\_\_\_

Ver. 0.2





| Batch Information            |                           |               | Sample #    | Initial vol/wt<br>(ml, G) | Final Volume<br>(µL) | Standards<br>circle applicable | Comments |
|------------------------------|---------------------------|---------------|-------------|---------------------------|----------------------|--------------------------------|----------|
| Batch Number:                | HXX2108                   |               | 216376 MB   | 250                       | 1000                 | ES Ax JS                       |          |
| Date / Time Extracted:       | 1/24/2018 / 13:30         |               | 216377 LCS  | 250                       | 1000                 | ES Ax JS                       |          |
| Method (circle one):         | EPA 537 EPA 537mod        |               | 0096-1      | 268.54   24.45            | 1000                 | ES Ax JS                       |          |
| Matrix* (circle applicable): | (NPW) DW S                |               | 0096-2      | 284.03   24.89            | 1000                 | ES Ax JS                       |          |
| Analyst:                     | VS                        |               | 0096-3 BMS  | 285.16   24.90            | 1000                 | ES Ax JS                       |          |
| Balance ID:                  | 4                         |               | 0096-4 BMSD | 289.78   24.70            | 1000                 | ES Ax JS                       |          |
| Solvent / Reagents and Lot # |                           |               | 0096-5      | 281.19   24.50            | 1000                 | ES Ax JS                       |          |
| Methanol:                    | Fisher 173205TF           |               | 0096-6      | 283.83   24.45            | 1000                 | ES Ax JS                       |          |
| LC/MS Grade Water:           | Fisher 176035             |               | 0096-7      | 287.86   24.25            | 1000                 | ES Ax JS                       |          |
| SPE Cartridge: HLB           | 122A37199A Conditioned YN |               | 0096-8      | 275.93   24.79            | 1000                 | ES Ax JS                       |          |
| Trizma 7.0:                  | SLBT4699                  |               | 0097-1      | 271.22   24.72            | 1000                 | ES Ax JS                       |          |
| Sodium acetate:              | N/A                       |               | 0097-2      | 281.41   24.45            | 1000                 | ES Ax JS                       |          |
| Acetic acid:                 | N/A                       |               | 0097-3      | 272.72   24.59            | 1000                 | ES Ax JS                       |          |
| Ammonium hydroxide:          | N/A                       |               | 0097-4      | 267.36   24.43            | 1000                 | ES Ax JS                       |          |
| Other: N/A                   | N/A                       |               | 0097-5 BMS  | 263.11   24.64            | 1000                 | ES Ax JS                       |          |
| Standards (400 ppb)          | Lot #                     | Amt. (µL)     | 0097-6 BMSD | 262.74   24.57            | 1000                 | ES Ax JS                       |          |
| GenX ES working:             | 15-423-1                  | 25            | 0097-7      | 285.41   24.19            | 1000                 | ES Ax JS                       |          |
| GenX Ax working:             | 15-423-2                  | 25            | 0097-8      | 275.74   24.58            | 1000                 | ES Ax JS                       |          |
| GenX JS working:             | 15-454-3                  | 25            |             |                           |                      | ES Ax JS                       |          |
| Pipette ID:                  | INO-014                   |               |             |                           |                      | ES Ax JS                       |          |
| Spike Witness                |                           |               |             |                           |                      | ES Ax JS                       |          |
| Initials: ADM                | Date: 1/24/2018           | Time: 11:55am |             |                           |                      | ES Ax JS                       |          |

\* NPW - non potable water; DW - drinking water; S - solid

Reviewed by:

Date/Time: 01/25/2018 10:25am

# RunLog TQS1

## SGS North America

Method: GenX  
 Matrix: Water  
 Inst Batch: 180125

| Standards      |                 |
|----------------|-----------------|
| ICAL Lot No.   | <u>15-423-2</u> |
| CCV Lot No.    | <u>15-454-1</u> |
| ICAL Batch ID: | <u>XLC1131</u>  |

| File name  | Sample ID / Dilution | Date / Time | Comments | RERUN | OPR | LIMS Batch |
|------------|----------------------|-------------|----------|-------|-----|------------|
| 1801250D17 | CCV                  | 21:04:58    |          |       |     | XLC1132    |
| 1801250D18 | 216376               | 21:35:38    |          |       |     | XLC1132    |
| 1801250D19 | 216377               | 22:06:04    |          |       |     | XLC1132    |
| 1801250D20 | 0096_1               | 22:37:03    |          |       |     | XLC1132    |
| 1801250D21 | 0096_2               | 23:07:42    |          |       |     | XLC1132    |
| 1801250D22 | 0096_3               | 23:38:25    |          |       |     | XLC1132    |
| 1801250D23 | 0096_4               | 0:09:09     |          |       |     | XLC1132    |
| 1801250D24 | 0096_5               | 0:39:52     |          |       |     | XLC1132    |
| 1801250D25 | 0096_6               | 1:10:35     |          |       |     | XLC1132    |
| 1801250D26 | 0096_7               | 1:41:18     |          |       |     | XLC1132    |
| 1801250D27 | 0096_8               | 2:12:02     |          |       |     | XLC1132    |
| 1801250D28 | CCV                  | 2:42:45     |          |       |     | XLC1132    |
| 1801250D29 | 0097_1               | 3:13:28     |          |       |     | XLC1132    |
| 1801250D30 | 0097_2               | 3:44:13     |          |       |     | XLC1132    |
| 1801250D31 | 0097_3               | 4:14:48     |          |       |     | XLC1132    |
| 1801250D32 | 0097_4               | 4:45:30     |          |       |     | XLC1132    |
| 1801250D33 | 0097_5               | 5:16:13     |          |       |     | XLC1132    |
| 1801250D34 | 0097_6               | 5:46:56     |          |       |     | XLC1132    |
| 1801250D35 | 0097_7               | 6:17:39     |          |       |     | XLC1132    |
| 1801250D36 | 0097_8               | 6:48:23     |          |       |     | XLC1132    |
| 1801250D37 | CCV                  | 7:19:06     |          |       |     | XLC1132    |

Analyst: \_\_\_\_\_

Allen\_Martin , 1/26/2018, 10:20:36 am

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